

# Balcrank's History

Balcrank entered the lubrication equipment field in 1922 and since then has developed many "firsts" in the industry, thus attaining a recognized position of leadership in design and engineering progress. All Balcrank equipment is built to meet the highest standards of quality control and performance requirements.

- |      |                                                                                                           |      |                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------|
| 1906 | The Cincinnati Ball Crank Company is formed                                                               | 2008 | Introduced new generation of truck drain                                                                  |
| 1906 | First in the mass production of machine handles and cranks for the machine tool and automotive industries | 2008 | Introduced a full range of Diesel Exhaust Fluid (DEF) dispensing systems                                  |
| 1908 | First in mass production of the ball-socket type of tie-rod and drag link steering connection             | 2009 | Balcrank Corporation was acquired by Linter North America, a subsidiary of Linter Investments Corporation |
| 1922 | Enters into the lubrication equipment field and invents and produces the first electric grease gun        | 2009 | Introduced LYNX 3:1 lube pump                                                                             |
| 1923 | First patents on hydraulic coupler and fittings now universally used today                                | 2009 | Introduced ILM (In-Line metered) series Control Handles in both analog and electronic display             |
| 1924 | Developed first air operated high-pressure/volume grease gun                                              | 2010 | Introduces LYNX 1:1, 2:1 and 5:1 pumps                                                                    |
| 1926 | Developed first air powered lubrication pump                                                              | 2011 | Introduced Signature Evolution Series hose reel                                                           |
| 1930 | Developed first enclosed hose reels                                                                       | 2011 | Introduced NEW Redesigned Signature Series Premium hose reel                                              |
| 1933 | Company changes name to Balcrank, Inc.                                                                    | 2011 | Introduced LYNX 55:1 portable package                                                                     |
| 1935 | First pump with Deluxe Container covers for weathered environments                                        | 2012 | Introduced EV and EVX hose reels                                                                          |
| 1948 | Engineered and released new Jet Power air operated pump                                                   | 2012 | Introduced Synergy fluid inventory management systems                                                     |
| 1958 | Introduced larger capacity hose reels in "deluxe" cabinet                                                 | 2013 | Introduced CenterFlo air operated diaphragm pumps                                                         |
| 1960 | Developed and introduced world's first high pressure coolant system                                       | 2013 | Introduced Digital Register (DR) meter                                                                    |
| 1968 | Introduced the original Director inventory control system                                                 | 2014 | Introduced Mechanical Register (MR) meter                                                                 |
| 1987 | Introduced the Director Jr. simplified inventory control system                                           | 2014 | Introduced High Flow (HF) handle                                                                          |
| 1994 | Introduced the Dataflo electronic digital control handle                                                  | 2015 | Balcrank builds and relocates to a new factory & office headquarters                                      |
| 1996 | Introduced the Roughneck self-evacuating drain                                                            | 2015 | Introduced electric diaphragm pump for DEF                                                                |
| 1999 | Received patents on Roughneck design                                                                      | 2015 | Introduced Preset Mechanical Handle                                                                       |
| 1999 | Introduced Panther HP 3:1 and 5:1 air operated pumps                                                      | 2016 | Introduced the Lion 450/600 pumps for the heavy duty market                                               |
| 2002 | Introduced Panther HP 50:1 grease pumps                                                                   | 2017 | Introduced high performance CF50 AODD pump                                                                |
| 2003 | Introduced Tiger HP 5:1 pump                                                                              | 2017 | Introduced tote dispense packages                                                                         |
| 2005 | Introduced custom color program for hose reels                                                            | 2019 | Introduced Lion 800 200:1 grease pump                                                                     |
| 2005 | Introduced Lion HP 5:1, 10:1, and 50:1 pumps                                                              | 2020 | Introduced Lion 350 pump and grease packages                                                              |
| 2005 | Introduced grease inductor pump systems for Lion HP and Panther HP grease pump                            | 2020 | Introduced Mechanical Oval Gear (MO) Meter                                                                |
| 2005 | Introduced air operated oil evacuation system                                                             | 2022 | Introduced New Electronic Preset (EP) Meter                                                               |
| 2006 | Introduced Pump Sentinel, a pump shut-off control system                                                  | 2024 | Introduced New BFH2 Handle                                                                                |
| 2007 | Introduced fusion wireless fluid inventory control systems                                                | 2024 | Introduced New Electronic Grease Meter                                                                    |
|      |                                                                                                           | 2024 | Introduced Air Operated Grease Gun                                                                        |
|      |                                                                                                           | 2024 | Introduced UP Pivot Series AODD Pumps                                                                     |
|      |                                                                                                           | 2024 | Introduced Lion 350 5:1 Oil Pump                                                                          |

# Balcrank

## Solutions

### Pumping Solutions

Balcrank manufactures oil piston pumps that range from 6 to 26 GPM and grease pumps that range from 1.2 up to 88 PPM. Balcrank pumps are used in pumping systems to supply bulk products to multiple dispensing points in various industries such as vehicle maintenance shops, mining, and oil field applications. We also manufacture a complete line of air-operated double diaphragm pumps (AODD) from 10 GPM to 275 GPM. AODD pumps are used in many applications including used fluid handling, high volume transfer, and packaging plus chemical and solvent transfer.

When designing a pumping system for our customers, we first evaluate the product being pumped, the distance to be pumped and the flow rate desired to meet the customer's needs. The pumping system must always meet these requirements and provide dependability, longevity, and reliability.



### Dispensing Solutions

Fluid dispensing and transfer require the right equipment to maximize flow rate and organize your shop. Balcrank manufactures a variety of fluid dispensing handles ranging in flow rates up to 18 GPM in both metered and non-metered versions. Also, preset handles allow our customers to enter the desired dispense amount and then automatically shut off to stop the dispense at a desired pre-set volume.

Hose reels organize your shop to keep it safe from tripping obstacles and make it easy to dispense your fluids. Different hose reel sizes can accommodate small to large shops requiring high volume dispensing or evacuation. We manufacture reels in low, medium, and high pressure for Air/Water, Oil, and Grease plus various other fluids and applications with hose sizes from 1/4" to 1 1/2".



## Fluid Management Solutions

In today's bulk fluid market, we see an average of 10% shrinkage in bulk fluid inventory due to theft, reconciliation, and failure to bill for oil on the repair order. These systems monitor each dispense and provide a secure system that allows tracking of each drop of oil. They are password protected, linked to a repair order and require the technician to also preset the required fluid dispense amount. Once the dispense is complete, no other product is allowed to dispense unless it is on a separate ticket. Advanced reporting capability allows management to see reports based on each fluid product, who dispensed the product when and how much fluid. It also tracks inventory in the bulk tank and can send an alert to your fluid supplier when tank levels get low or high in the case of used fluids. Lost inventory can have a dramatic effect on your cost of inventory as oil can be one of the highest costs of inventory in a service shop.



## Storage Solutions

Balcrank provides fully assembled storage tank packages ranging from 165 to 400-gallon sizes. These packages are available for low, medium, and high-volume applications which determine the pump size used in the package. We also offer fluid evacuation systems for handling used fluid products while maintaining safety by utilizing a high-level pump shut-off to prevent overfilling of the tank. We offer single and double wall packages with a selection of pumps, hose reels, and control handles for each application.



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Tiger HP 6:1 Pump Application



# PUMPS

## OIL PISTON PUMPS

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# Oil Piston Pumps Product Selection Matrix

1

|                                  | MAX. LINE LENGTH    | MAX. FREE FLOW           | FLUID INLET                 | FLUID OUTLET | RECOMMENDED FLUID TYPES                                                                |
|----------------------------------|---------------------|--------------------------|-----------------------------|--------------|----------------------------------------------------------------------------------------|
| <b>LYNX® 1:1</b>                 |                     |                          |                             |              |                                                                                        |
|                                  | Up to 100' (30 m)*  | 10.6 gal/min (40 l/min)* | 1" NPT(F)                   | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils                                                   |
| <b>LYNX® 1:1 STAINLESS STEEL</b> |                     |                          |                             |              |                                                                                        |
|                                  | Up to 100' (30 m)*  | 8.2 gal/min (31 l/min)*  | 1" NPT(F)                   | 3/4" NPT(F)  | Anti-freeze (Glycol), Windshield Wash Fluids                                           |
| <b>LYNX® 3:1</b>                 |                     |                          |                             |              |                                                                                        |
|                                  | Up to 125' (38 m)*  | 6.6 gal/min (25 l/min)*  | 3/4" NPT(F)                 | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>LYNX® 5:1 HD</b>              |                     |                          |                             |              |                                                                                        |
|                                  | Up to 150' (46 m)*  | 10 gal/min (38 l/min)*   | 1" NPT(F)                   | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>PANTHER® 3:1</b>              |                     |                          |                             |              |                                                                                        |
|                                  | 250' (76 m)*        | 8 gal/min (30 l/min)*    | 1" NPT(F);<br>1 1/2" NPT(M) | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>PANTHER® 5:1</b>              |                     |                          |                             |              |                                                                                        |
|                                  | 500' (152 m)*       | 6 gal/min (23 l/min)*    | 1" NPT(F);<br>1 1/2" NPT(M) | 1/2" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>TIGER® 6:1</b>                |                     |                          |                             |              |                                                                                        |
|                                  | 500' (152 m)*       | 16 gal/min (61 l/min)*   | 1" NPT(F);<br>1 1/2" NPT(M) | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Anti-freeze (Glycol), and Windshield Wash Fluids |
| <b>LION™ 350 5:1</b>             |                     |                          |                             |              |                                                                                        |
|                                  | 500' (152 m)*       | 8 gal/min (30 l/min)     | 1 1/2" NPT(F)               | 1/2" NPT(F)  | Synthetic and Mineral Based Oils, Hydraulic Oil, Gear Oil, Transmission Fluid          |
| <b>LION™ 450 3:1</b>             |                     |                          |                             |              |                                                                                        |
|                                  | Up to 250' (76 m)*  | 12 gal/min (45 l/min)    | 1 1/2" NPT(F)               | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>LION™ 450 6:1</b>             |                     |                          |                             |              |                                                                                        |
|                                  | Up to 500' (152 m)* | 25 gal/min (95 l/min)    | 1 1/2" NPT(F)               | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>LION™ 450 10:1</b>            |                     |                          |                             |              |                                                                                        |
|                                  | Up to 750' (230 m)* | 17 gal/min (65 l/min)    | 1 1/2" NPT(F)               | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>LION™ 600 6:1</b>             |                     |                          |                             |              |                                                                                        |
|                                  | Up to 500' (152 m)* | 26 gal/min (100 l/min)   | 1 1/2" NPT(F)               | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |
| <b>LION™ 600 12:1</b>            |                     |                          |                             |              |                                                                                        |
|                                  | Up to 750' (230 m)* | 17 gal/min (65 l/min)    | 1 1/2" NPT(F)               | 3/4" NPT(F)  | Petroleum Based Oils, Synthetic Oils, Gear and ATF                                     |

\* Pump performance is predicated on fluid viscosity, pumping distance, pipe diameter, and dispense volume requirements. Contact Balcrank for system design assistance and technical data.



LYNX® SERIES



LYNX® HD SERIES



PANTHER® SERIES



TIGER® SERIES

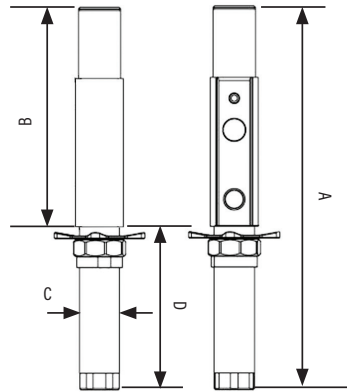


LION™ SERIES

# Oil Piston Pumps

## LYNX® 1:1 - 1:1 Stainless Steel Pump

The LYNX® 1:1 ratio double acting pump is engineered for outstanding performance and reliability to dispense lubricating oils and similar products up to SAE 90.



| Dimensions inches (MM) |                     |                    |                     |
|------------------------|---------------------|--------------------|---------------------|
| 1110-010               |                     |                    |                     |
| A                      | B                   | C                  | D                   |
| 19 9/16"<br>(497 mm)   | 11 1/4"<br>(286 mm) | 2 3/64"<br>(52 mm) | 8 5/16"<br>(211 mm) |
| 1110-009               |                     |                    |                     |
| 46 1/2"<br>(1181 mm)   | 11 1/4"<br>(286 mm) | 2 3/64"<br>(52 mm) | 35 1/4"<br>(895 mm) |
| 1160-008               |                     |                    |                     |
| 47 1/4"<br>(1200 mm)   | 11 1/4"<br>(286 mm) | 2"<br>(50 mm)      | 36"<br>(914 mm)     |

### TECHNICAL DATA

|                                                                                                             |                                                                |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Operating air pressure                                                                                      | 45-150 psi (3-10 bar)                                          |
| Cycles per gallon                                                                                           | 31 cyc/gal (8.2 cyc/liter)                                     |
| Air consumption 100 psi (7 bar) & 3 gal/min (11 l/min)                                                      | 3.50 SCFM                                                      |
| Max Fluid stall pressure @ 150 psi (10 bar) <sup>(1)</sup>                                                  | 145 psi (10 bar)                                               |
| Effective Air Piston Diameter                                                                               | 1.375" (35 mm)                                                 |
| 1110-010, 1110-009 Free flow pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure | 10.6 gal/min (40 l/min)                                        |
| 1160-008 Free flow pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure           | 8.2 gal/min (30 l/min)                                         |
| Air inlet                                                                                                   | 1/4" NPT(F)                                                    |
| Fluid inlet (stub only)                                                                                     | 1" NPT(F)                                                      |
| Fluid outlet 1110-010, 1110-009                                                                             | 3/4" NPT(F)                                                    |
| Fluid outlet 1160-008                                                                                       | 3/4" NPT(F)                                                    |
| Wetted materials                                                                                            | Steel, Brass, Aluminum, Buna-N <sup>®</sup> , and Polyurethane |
| 1110-010 & 1110-009                                                                                         |                                                                |
| 1160-008                                                                                                    | Stainless Steel, Viton <sup>®</sup> , and PTFE                 |
| Service Bulletin 1110-010, 1110-009                                                                         | SB 1102                                                        |
| Service Bulletin 1160-008                                                                                   | SB 1143                                                        |

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit 3120-086 for this pump.

(1) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

**Warning!** Do not use any LYNX® series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

## Synthetic and Mineral Based Fluid

## Hydraulic Fluid

## Transmission Fluid

## Anti-freeze

## Windshield Wash

The LYNX® series pump is perfect for small volume users, for synthetics, gear oils, and standard mineral oils.

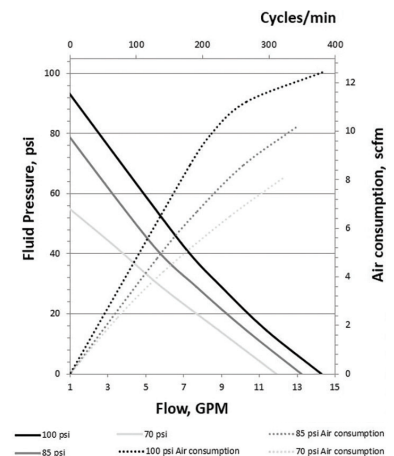
The 1:1 version is best for higher volume with short distance requirements such as oil bars, taper pumps and medium to light viscosity oils pumping short distances.

### Applications

- Taper pumps
- Oil bar supply (pumping short distance)
- Roll-around synthetic or mineral oil packages
- Medium volume dispensing in agricultural, in-plant, and maintenance shop applications

**Pressure relief valve kit 3120-086 for this pump not included.**

| MODELS AVAILABLE | DESCRIPTION                                          |
|------------------|------------------------------------------------------|
| 1110-010         | 1:1 Bare carbon steel stub pump with bung adapter    |
| 1110-009         | 1:1 Bare carbon steel drum pump with bung adapter    |
| 1160-008         | 1:1 Bare stainless steel drum pump with bung adapter |
| 3120-086         | Kit, Pressure Relief, 3/4", 850 psi (59 bar)         |



# Oil Piston Pumps

## LYNX® 1:1 Pump Packages

1



| 16 GAL PUMP PACKAGES               | 16 Gal Non-Metered<br>1111-028 | 16 Gal Metered<br>1111-027 |
|------------------------------------|--------------------------------|----------------------------|
| Pump                               | 1110-010                       | 1110-010                   |
| MP fluid Hose 10' x 1/2"           | 8249-010                       | 8249-010                   |
| Handle Flex-memory 1/4 turn        | 3320-024                       | 3330-159                   |
| F/R Mini Auto Drain 1/4" NPT(F)    | 3260-033                       | 3260-033                   |
| Air Coupler 1/4"                   | 3270-003                       | 3270-003                   |
| Air Nipple 1/4"                    | 3270-004                       | 3270-004                   |
| Suction Tube 1" NPT(M) x 18" - 30° | 4412-044                       | 4412-044                   |
| LP Hose 5' x 3/8"                  | 8132-005                       | 8132-005                   |
| OPTIONAL ACCESSORIES               |                                |                            |
| Cart                               | 4320-010                       | 4320-010                   |
| Dolly                              | 4310-001                       | 4310-001                   |













| 55 GAL PUMP PACKAGES            | 55 GAL NON-METERED<br>1111-030 | 55 GAL METERED<br>1111-029 |
|---------------------------------|--------------------------------|----------------------------|
| Pump                            | 1110-009                       | 1110-009                   |
| MP fluid Hose 10' x 1/2"        | 8249-010                       | 8249-010                   |
| Handle Flex-memory 1/4 turn     | 3320-024                       | 3330-159                   |
| F/R Mini Auto Drain 1/4" NPT(F) | 3260-033                       | 3260-033                   |
| Air Coupler 1/4"                | 3270-003                       | 3270-003                   |
| Air Nipple 1/4"                 | 3270-004                       | 3270-004                   |
| LP Hose 5' x 3/8"               | 8132-005                       | 8132-005                   |
| OPTIONAL ACCESSORIES            |                                |                            |
| Cart                            | 4320-013                       | 4320-013                   |
| Dolly                           | 4310-004                       | 4310-004                   |



| LYNX® 2:1 Pump Package          | Tapper Stub<br>1111-035                                       |                       |              |
|---------------------------------|---------------------------------------------------------------|-----------------------|--------------|
| Pump                            | LYNX® 2:1 with double bung bushing adapter and drip tray      |                       |              |
| F/R Mini Auto Drain 1/4" NPT(F) | 3260-033                                                      |                       |              |
| Spigot Dispense Valve           | 4200-013                                                      |                       |              |
| Air Coupler 1/4"                | 3270-003                                                      |                       |              |
| Air Nipple 1/4"                 | 3270-004                                                      |                       |              |
|                                 | Suction tubes not included. *Choose from suction tubes below. |                       |              |
| Suction Tube                    | *4412-046                                                     | 1" NPT(M) x 26" - 30° | 55 gal drum  |
|                                 | *4412-049                                                     | 1" NPT(M) x 32" - 30° | 275 gal tote |
|                                 | *4412-050                                                     | 1" NPT(M) x 39" - 30° | 330 gal tote |

# Oil Piston Pumps

## LYNX® 1:1 Pump Components

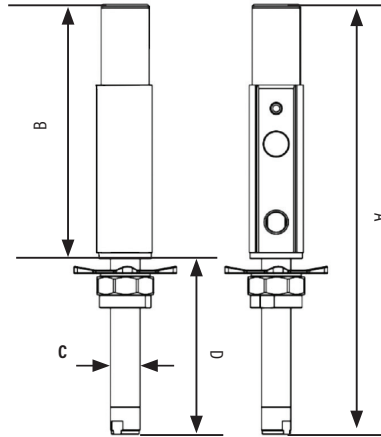
|                        |                                                                                     |                                                                                                                                                                                  |                       |                        |                                                                                      |                                                                                                                                                                            |                                                                                    |                                                                                                                                                                                                                  |
|------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suction tubes          |    | 4412-044                                                                                                                                                                         | 1" NPT(M) x 18" - 30° | 16 gal drum            | Control handles                                                                      |                                                                                          | 3330-159 DR, Flex-mem. ext., 1/4 turn                                              |                                                                                                                                                                                                                  |
|                        |                                                                                     | 4412-046                                                                                                                                                                         | 1" NPT(M) x 26" - 30° | 55 gal drum            |                                                                                      |                                                                                                                                                                            | 3330-205 M0, Flex-mem. ext., 1/4 turn                                              |                                                                                                                                                                                                                  |
|                        |                                                                                     | 4412-045                                                                                                                                                                         | 1" NPT(M) x 21" - 30° | 165/280 gal bench tank |                                                                                      |                                                                                                                                                                            | 3330-192 MR, Qts., Flex-mem. ext., 1/4 turn                                        |                                                                                                                                                                                                                  |
|                        |                                                                                     | Wall mount kit                                                                                                                                                                   |                       | 4412-048               | 1" NPT(M) x 30" - 30°                                                                | 165/280 gal bench tank double tap                                                                                                                                          |  | 4410-058 Wall mount kit for LYNX®<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>8171-006 Suction Hose 6' x 3/4"<br>4412-027 Suction Tube 3/4" NPT(M) x 60" - 30°<br>4411-008 Wall mount bracket |
|                        |                                                                                     |                                                                                                                                                                                  |                       | 4412-047               | 1" NPT(M) x 28" - 30°                                                                | 250 gal bench tank double tap                                                                                                                                              |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     |                                                                                                                                                                                  |                       | 4412-051               | 1" NPT(M) x 42" - 30°                                                                | 275/330 gal horizontal obround double tap                                                                                                                                  |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     |                                                                                                                                                                                  |                       | 4412-052               | 1" NPT(M) x 60" - 30°                                                                | 330 gal vertical obround                                                                                                                                                   |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     |                                                                                                                                                                                  |                       | 4412-049               | 1" NPT(M) x 32" - 30°                                                                | 275 gal tote                                                                                                                                                               |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     |                                                                                                                                                                                  |                       | 4412-050               | 1" NPT(M) x 39" - 30°                                                                | 330 gal tote                                                                                                                                                               |                                                                                    |                                                                                                                                                                                                                  |
| Filter regulator (F/R) |    | 3260-033 F/R mini auto drain 1/4" NPT(F)                                                                                                                                         |                       | Wall mount bracket     |    | 4411-008 Wall mount bracket for LYNX®                                                                                                                                      |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     | See pg. 175 for complete listing                                                                                                                                                 |                       |                        |                                                                                      |                                                                                                                                                                            |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     |                                                                                                                                                                                  |                       |                        |                                                                                      |                                                                                                                                                                            |                                                                                    |                                                                                                                                                                                                                  |
| Dispense hose          |  | 8263-010 Dispense hose 10' x 3/4"                                                                                                                                                |                       | Dollies                |    | 4310-001 Band dolly, 16 gal/120 lb<br>4310-003 Band dolly, 16 gal/120 lb wide track<br>4310-004 Dolly, 55 gal/400 lb HD                                                    |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     | 8263-016 Dispense hose 16' x 3/4"                                                                                                                                                |                       |                        |                                                                                      |                                                                                                                                                                            |                                                                                    |                                                                                                                                                                                                                  |
| Connecting hose kit    |  | 4410-054 Connecting hose kit LYNX®:<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>3270-003 Coupler 1/4"<br>3270-004 Nipple 1/4"<br>3270-053 Bushing 3/4" x 1/2" |                       | Carts                  |   | 4320-010 4 Wheel drum cart: 120 lb/16 gal<br>4320-013 3 Wheel drum cart: 400 lb/55 gal<br>4320-014 Heavy duty drum cart: 400 lb/55 gal, 3 wheels with rear locking caster. |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     |                                                                                                                                                                                  |                       |                        |                                                                                      |                                                                                                                                                                            |                                                                                    |                                                                                                                                                                                                                  |
|                        |                                                                                     |                                                                                                                                                                                  |                       | Hose reel mount kit    |  | 2230-036 Hose reel mount kit for 4320-014 Heavy duty drum cart                                                                                                             |                                                                                    |                                                                                                                                                                                                                  |

Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.

# Oil Piston Pumps

## LYNX® 3:1 Pump

The LYNX® 3:1 ratio double acting pump is engineered for outstanding performance and reliability to dispense lubricating oils and similar products.



| Dimensions inches (MM) |                     |                     |                     |
|------------------------|---------------------|---------------------|---------------------|
| 1110-007               |                     |                     |                     |
| A                      | B                   | C                   | D                   |
| 19 9/16"<br>(497 mm)   | 11 1/4"<br>(286 mm) | 1 11/32"<br>(34 mm) | 8 5/16"<br>(211 mm) |

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Transmission Fluid

The LYNX® series pump is perfect for small volume users, for synthetics, and standard mineral oils. The 3:1 version is best for small tank packages, roll-around units for synthetic and mineral base drum applications.

### Applications

- Oil bar supply (pumping short distance)
- Roll-around synthetic or mineral oil packages
- Low volume dispensing in agricultural, in-plant, and maintenance shop applications

**Pressure relief valve kit 3120-086 for this pump, not included.**

| TECHNICAL DATA                                                                           |                                                   |
|------------------------------------------------------------------------------------------|---------------------------------------------------|
| Operating air pressure                                                                   | 45-150 psi (3-10 bar)                             |
| Cycles per gallon                                                                        | 98 cyc/gal (26.5 cyc/liter)                       |
| Air consumption 100 psi (7 bar) & 3 gal/min (11 l/min)                                   | 18.80 SCFM                                        |
| Max Fluid stall pressure @ 150 psi (10 bar) <sup>(1)</sup>                               | 725 psi (50 bar)                                  |
| Effective Air Piston Diameter                                                            | 1.375" (35 mm)                                    |
| Free flow pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure | 6.6 gal/min (25 l/min)                            |
| Air inlet                                                                                | 1/4" NPT(F)                                       |
| Fluid inlet                                                                              | 3/4" NPT(F)                                       |
| Fluid outlet                                                                             | 3/4" NPT(F)                                       |
| Wetted materials                                                                         | Buna-N™, Steel, Brass, Aluminum, and Polyurethane |
| Service Bulletin                                                                         | SB 1101                                           |

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit 3120-086 for this pump.

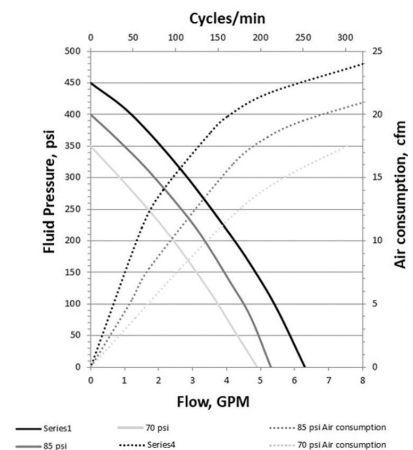
(1) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

**Warning!** Do not use any LYNX® series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

| MODELS AVAILABLE | DESCRIPTION                                       |
|------------------|---------------------------------------------------|
| <b>1110-007</b>  | 3:1 Bare carbon steel stub pump with bung adapter |
| <b>3120-086</b>  | Kit, Pressure Relief, 3/4", 850 psi (59 bar)      |



# Oil Piston Pumps LYNX® 3:1 Pump Packages

1



| 16 GAL PUMP PACKAGES                 | 16 GAL<br>NON METERED<br>1111-032 | 16 GAL<br>METERED<br>1111-031 |
|--------------------------------------|-----------------------------------|-------------------------------|
| Pump                                 | 1110-007                          | 1110-007                      |
| MP fluid Hose 10' x 1/2"             | 8249-010                          | 8249-010                      |
| Suction tube 3/4" NPT(M) x 18" - 30° | 4412-035                          | 4412-035                      |
| Handle w/Flex-memory & 1/4 turn      | 3320-024                          | 3330-159                      |
| F/R Mini Auto Drain 1/4" NPT(F)      | 3260-033                          | 3260-033                      |
| Air Coupler 1/4"                     | 3270-003                          | 3270-003                      |
| Air Nipple 1/4"                      | 3270-004                          | 3270-004                      |
| LP Hose 5' x 3/8"                    | 8132-005                          | 8132-005                      |
| OPTIONAL ACCESSORIES                 |                                   |                               |
| Cart                                 | 4320-010                          | 4320-010                      |
| Dolly                                | 4310-001                          | 4310-001                      |



| 55 GAL PUMP PACKAGES                | 55 GAL<br>NON METERED<br>1111-034 | 55 GAL<br>METERED<br>1111-033 |
|-------------------------------------|-----------------------------------|-------------------------------|
| Pump                                | 1110-007                          | 1110-007                      |
| MP fluid Hose 10' x 1/2"            | 8249-010                          | 8249-010                      |
| Suction tube 3/4" NPT(M)x 26" - 30° | 4412-037                          | 4412-037                      |
| Handle w/Flex-memory & 1/4 turn     | 3320-024                          | 3330-159                      |
| F/R Mini Auto Drain 1/4" NPT(F)     | 3260-033                          | 3260-033                      |
| Air Coupler 1/4"                    | 3270-003                          | 3270-003                      |
| Air Nipple 1/4"                     | 3270-004                          | 3270-004                      |
| LP Hose 5' x 3/8"                   | 8132-005                          | 8132-005                      |
| OPTIONAL ACCESSORIES                |                                   |                               |
| Cart                                | 4320-013                          | 4320-013                      |
| Dolly                               | 4310-004                          | 4310-004                      |

# Oil Piston Pumps

## LYNX® 3:1 Pump Components

1

|                        |  |                                                                                                                                                                                  |                         |                                  |                         |                                                                |                                                                                  |  |                                                                                                                                                                                                                  |
|------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suction tubes          |  | 4412-035                                                                                                                                                                         | 3/4" NPT(M) x 18" - 30° | 16 gal drum                      | Control handles         |                                                                | 3330-159 DR, Flex-mem. ext., 1/4 turn                                            |  |                                                                                                                                                                                                                  |
|                        |  | 4412-037                                                                                                                                                                         | 3/4" NPT(M) x 26" - 30° | 55 gal drum                      |                         |                                                                | 3330-205 M0, Flex-mem. ext., 1/4 turn                                            |  |                                                                                                                                                                                                                  |
|                        |  | 4412-036                                                                                                                                                                         | 3/4" NPT(M) x 21" - 30° | 165/280 gal bench tank           |                         |                                                                | 3330-192 MR, Qts., Flex-mem. ext., 1/4 turn                                      |  |                                                                                                                                                                                                                  |
|                        |  | Wall mount kit                                                                                                                                                                   |                         | 4412-039                         | 3/4" NPT(M) x 30" - 30° | 165/280 gal bench tank double tap                              | Wall mount kit                                                                   |  | 4410-058 Wall mount kit for LYNX®<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>8171-006 Suction Hose 6' x 3/4"<br>4412-027 Suction Tube 3/4" NPT(M) x 60" - 30°<br>4411-008 Wall mount bracket |
|                        |  |                                                                                                                                                                                  |                         | 4412-038                         | 3/4" NPT(M) x 28" - 30° | 250 gal bench tank double tap                                  |                                                                                  |  |                                                                                                                                                                                                                  |
|                        |  |                                                                                                                                                                                  |                         | 4412-042                         | 3/4" NPT(M) x 42" - 30° | 275/330 gal horizontal obround double tap                      |                                                                                  |  |                                                                                                                                                                                                                  |
|                        |  |                                                                                                                                                                                  |                         | 4412-043                         | 3/4" NPT(M) x 60" - 30° | 330 gal vertical obround                                       |                                                                                  |  |                                                                                                                                                                                                                  |
|                        |  | Wall mount bracket                                                                                                                                                               |                         | 4412-040                         | 3/4" NPT(M) x 32" - 30° | 275 gal tote                                                   | Wall mount bracket                                                               |  | 4411-008 Wall mount bracket for LYNX®                                                                                                                                                                            |
|                        |  |                                                                                                                                                                                  |                         | 4412-041                         | 3/4" NPT(M) x 39" - 30° | 330 gal tote                                                   |                                                                                  |  |                                                                                                                                                                                                                  |
| Filter regulator (F/R) |  | 3260-033 F/R mini auto drain 1/4" NPT(F)                                                                                                                                         |                         | See pg. 175 for complete listing | Dollies                 |                                                                | 4310-001 Band dolly, 16 gal/120 lb                                               |  |                                                                                                                                                                                                                  |
|                        |  |                                                                                                                                                                                  |                         |                                  |                         |                                                                | 4310-003 Band dolly, 16 gal/120 lb wide track                                    |  |                                                                                                                                                                                                                  |
| Dispense hose          |  | 8263-010 Dispense hose 10' x 3/4"                                                                                                                                                |                         |                                  | Carts                   |                                                                | 4310-004 Dolly, 55 gal/400 lb HD                                                 |  |                                                                                                                                                                                                                  |
|                        |  | 8263-016 Dispense hose 16' x 3/4"                                                                                                                                                |                         |                                  |                         |                                                                | 4320-010 4 Wheel drum cart: 120 lb/16 gal                                        |  |                                                                                                                                                                                                                  |
| Connecting hose kit    |  | 4410-054 Connecting hose kit LYNX®:<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>3270-003 Coupler 1/4"<br>3270-004 Nipple 1/4"<br>3270-053 Bushing 3/4" x 1/2" |                         |                                  | Hose reel mount kit     |                                                                | 4320-013 3 Wheel drum cart: 400 lb/55 gal                                        |  |                                                                                                                                                                                                                  |
|                        |  |                                                                                                                                                                                  |                         |                                  |                         |                                                                | 4320-014 Heavy duty drum cart: 400 lb/55 gal, 3 wheels with rear locking caster. |  |                                                                                                                                                                                                                  |
|                        |  |                                                                                                                                                                                  |                         |                                  |                         | To mount hose reel, use 2230-036 hose reel mount kit.          |                                                                                  |  |                                                                                                                                                                                                                  |
|                        |  |                                                                                                                                                                                  |                         |                                  |                         | 2230-036 Hose reel mount kit for 4320-014 Heavy duty drum cart |                                                                                  |  |                                                                                                                                                                                                                  |

Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.

## LYNX® 5:1 HD Pump Drum Package

| MODEL AVAILABLE                    | DESCRIPTION                       |
|------------------------------------|-----------------------------------|
| 1131-069                           | 5:1 LYNX HD Portable Pump Package |
| Pump                               | 1110-012                          |
| Classic Hose Reel MP 50' x 1/2"    | 2120-013                          |
| Suction tube 1" NPT(M) x 26" - 30° | 4412-046                          |
| Handle w/Flex-memory & 1/4 turn    | 3330-159                          |
| F/R Mini Auto Drain 1/4" NPT(F)    | 3260-033                          |
| Nipple 1/4"                        | 3720-041                          |
| LP Hose 5' x 1/2"                  | 8249-005                          |
| Drum Cart                          | 4320-014                          |

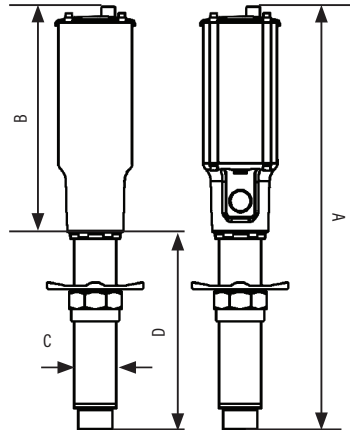


Drum not included

# Oil Piston Pumps

## LYNX® 5:1 HD Pump

The LYNX® 5:1 HD ratio double acting pump is engineered for outstanding performance and reliability. The LYNX® 5:1 HD pump is designed to dispense lubricating oils and gear oils in piped systems up to SAE 90.



| Dimensions inches (MM) |                     |               |                     |
|------------------------|---------------------|---------------|---------------------|
| 1110-012               |                     |               |                     |
| A                      | B                   | C             | D                   |
| 19 11/16"<br>(500 mm)  | 10 5/8"<br>(270 mm) | 2"<br>(50 mm) | 9 1/16"<br>(230 mm) |

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Transmission Fluid Gear Oil

The LYNX® 5:1 HD series pump is perfect for medium volume users requiring an economy unit for roll-around synthetics, gear oil and standard mineral oil dispense packages. This pump can also be used for small to medium shops supplying overhead hose reels with a maximum overall flow rate of 5 gpm.

### Applications

- Small to medium sized tank packages
- Low to medium volume maintenance shops
- Small car dealerships
- Quick lubes
- Roll-around gear oil packages

**Pressure relief valve kit included with this pump.**

### TECHNICAL DATA

|                                                                                          |                                                   |
|------------------------------------------------------------------------------------------|---------------------------------------------------|
| Operating air pressure                                                                   | 60-145 psi (4-10 bar)                             |
| Cycles per gallon                                                                        | 20 cyc/gal (5.28 cyc/liter)                       |
| Air consumption 100 psi (7 bar) & 3 gal/min (11 l/min)                                   | 18.80 SCFM                                        |
| Max Fluid stall pressure @ 150 psi (10 bar) <sup>(1)</sup>                               | 725 psi (50 bar)                                  |
| Effective Air Piston Diameter                                                            | 3" (80 mm)                                        |
| Free flow pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure | 24 gal/min (90.85 l/min)                          |
| Air inlet                                                                                | 1/4" NPT(F)                                       |
| Fluid inlet                                                                              | 1" NPT(F)                                         |
| Fluid outlet                                                                             | 3/4" NPT(F)                                       |
| Wetted materials                                                                         | Aluminum, Buna-N™, Zamak, Steel, and Polyurethane |
| Service Bulletin                                                                         | SB 1128                                           |

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

(1) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

**Warning!** Do not use any LYNX® series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

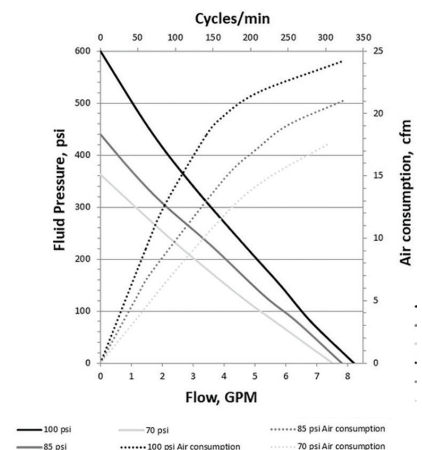
Contact Balcrank for specific system design performance and technical data.

### MODELS AVAILABLE

**1110-012**

### DESCRIPTION

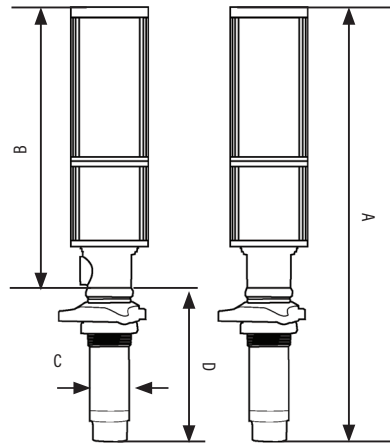
5:1 Bare carbon steel stub pump with bung adapter



# Oil Piston Pumps

## PANTHER® HP 3:1 Pumps

The Panther® HP 3:1 ratio double acting pump is engineered for outstanding performance and reliability for dispensing lubricating oils and similar products up to SAE 90.



| Dimensions inches (MM) |                     |                   |                      |
|------------------------|---------------------|-------------------|----------------------|
| 1130-015 & 1130-020    |                     |                   |                      |
| A                      | B                   | C                 | D                    |
| 23.5"<br>(523.9 mm)    | 14 3/8"<br>(285 mm) | 2 1/8"<br>(54 mm) | 6 1/2"<br>(158.7 mm) |
| 1130-017               |                     |                   |                      |
| 21 8/9"<br>(555.6 mm)  | 14 3/8"<br>(285 mm) | 2 1/8"<br>(54 mm) | 7 1/2"<br>(190.5 mm) |

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Transmission Fluid

Pride Series pumps are manufactured with a mechanical air valve and piston design which is more forgiving to environments with contaminated air. The 3:1 version is a medium pressure pump for supplying higher volume than the 5:1 version but at lower operating pressures ideal for medium pumping distances and overall flow rates of 4-5 gpm.

### Applications

- Medium sized tank packages
- Medium volume maintenance shops
- Small car dealerships
- Quick lubes

**Pressure relief valve kit included with this pump.**

### TECHNICAL DATA

|                                                                                         |                                                                                       |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Operating air pressure                                                                  | 10-150 psi (.7-10 bar)                                                                |
| Cycles per gallon                                                                       | 34 cyc/gal (8.98 cyc/liter)                                                           |
| Air consumption 100 psi (7 bar) & 4 gal/min (15 l/min)                                  | 19.70 SCFM                                                                            |
| Max. fluid stall pressure @150 psi (10 bar) <sup>(1)</sup>                              | 490 psi (33.7 bar)                                                                    |
| Effective air piston diameter                                                           | 2.5" (63.5 mm)                                                                        |
| Free Flow pump delivery with SAE 10W30 oil, 68° F (20° C), 100 psi (7 bar) air pressure | 8 gal/min (30 l/min)                                                                  |
| Air inlet                                                                               | 1/4" NPT(F)                                                                           |
| Fluid inlet                                                                             | 1" NPT(F); 1 1/2" NPT(M)                                                              |
| Fluid outlet                                                                            | 3/4" NPT(F)                                                                           |
| Wetted materials                                                                        | Steel, Nickel Plated Steel, Stainless Steel, Aluminum, Ultrathane, Buna-N™, and Nylon |
| Service Bulletin                                                                        | SB 1064                                                                               |

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

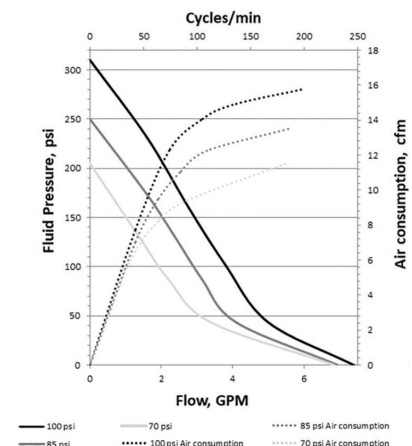
(1) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

**Warning!** Do not use any Pride series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

| MODELS AVAILABLE | DESCRIPTION                                   |
|------------------|-----------------------------------------------|
| <b>1130-015</b>  | 3:1 Bare carbon steel stub pump               |
| <b>1130-017</b>  | 3:1 Bare carbon steel stub pump, flange mount |
| <b>1130-020</b>  | 3:1 Bare carbon steel pump with bung adapter  |



# Oil Piston Pumps PANTHER® HP 3:1 Pump Packages

1



| 16 GAL PUMP PACKAGES                | 16 GAL<br>NON-METERED<br>1131-060 | 16 GAL<br>METERED<br>1131-059 |
|-------------------------------------|-----------------------------------|-------------------------------|
| Pump                                | 1130-015                          | 1130-015                      |
| MP Fluid Hose 10' x 1/2"            | 8249-010                          | 8249-010                      |
| LP Hose 5' x 3/8"                   | 8132-005                          | 8132-005                      |
| Suction tube 1" NPT(M) x 18" - 30°  | 4412-044                          | 4412-044                      |
| Handle w/Flex-memory Ext & 1/4 turn | 3320-024                          | 3330-159                      |
| F/R Mini Auto Drain 1/4" NPT(F)     | 3260-033                          | 3260-033                      |
| Air Coupler 1/4"                    | 3270-003                          | 3270-003                      |
| Air Nipple 1/4"                     | 3270-004                          | 3270-004                      |
| Bung Adapter                        | 4411-009N                         | 4411-009N                     |
| OPTIONAL ACCESSORIES                |                                   |                               |
| Cart                                | 4320-010                          | 4320-010                      |
| Dolly                               | 4310-001                          | 4310-001                      |














| 55 GAL PUMP PACKAGES                | 55 GAL<br>NON-METERED<br>1131-062 | 55 GAL<br>METERED<br>1131-061 |
|-------------------------------------|-----------------------------------|-------------------------------|
| Pump                                | 1130-015                          | 1130-015                      |
| MP Fluid Hose 10' x 1/2"            | 8249-010                          | 8249-010                      |
| LP Hose 5' x 3/8"                   | 8132-005                          | 8132-005                      |
| Suction tube 1" NPT(M) x 26" - 30°  | 4412-046                          | 4412-046                      |
| Handle w/Flex-memory Ext & 1/4 turn | 3320-024                          | 3330-159                      |
| F/R Mini Auto Drain 1/4" NPT(F)     | 3260-033                          | 3260-033                      |
| Air Coupler 1/4"                    | 3270-003                          | 3270-003                      |
| Air Nipple 1/4"                     | 3270-004                          | 3270-004                      |
| Bung Adapter                        | 4411-009N                         | 4411-009N                     |
| OPTIONAL ACCESSORIES                |                                   |                               |
| Cart                                | 4320-013                          | 4320-013                      |
| Dolly                               | 4310-004                          | 4310-004                      |

# Oil Piston Pumps

## PANTHER® HP 3:1 & LYNX® 5:1 HD Pump Components

1

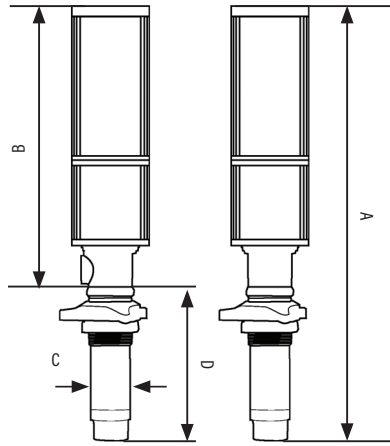
|                        |                                                                                     |                                                                                                                                                                                     |                       |                                                                                      |                                                                                    |                                                                                    |                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suction tubes          |    | 4412-044                                                                                                                                                                            | 1" NPT(M) x 18" - 30° | 16 gal drum                                                                          | Control handles                                                                    |  | 3330-159 DR, Flex-mem. ext., 1/4 turn                                                                                                                                                                                                     |
|                        |                                                                                     | 4412-046                                                                                                                                                                            | 1" NPT(M) x 26" - 30° | 55 gal drum                                                                          |                                                                                    |                                                                                    | 3330-205 M0, Flex-mem. ext., 1/4 turn                                                                                                                                                                                                     |
|                        |                                                                                     | 4412-045                                                                                                                                                                            | 1" NPT(M) x 21" - 30° | 165/280 gal bench tank                                                               |                                                                                    |                                                                                    | 3330-192 MR, Qts., Flex-mem. ext., 1/4 turn                                                                                                                                                                                               |
|                        |                                                                                     | 4412-048                                                                                                                                                                            | 1" NPT(M) x 30" - 30° | 165/280 gal bench tank double tap                                                    | Wall mount kit                                                                     |  | 4410-022 Wall mount kit for Panther®<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>8181-006 Suction Hose 6' x 1"<br>4412-015 Suction Tube 1" NPT(M) x 48" - 30°<br>4411-009N Bung Adapter<br>4411-008 Wall mount bracket |
|                        |                                                                                     | 4412-047                                                                                                                                                                            | 1" NPT(M) x 28" - 30° | 250 gal bench tank double tap                                                        |                                                                                    |                                                                                    |                                                                                                                                                                                                                                           |
|                        |                                                                                     | 4412-051                                                                                                                                                                            | 1" NPT(M) x 42" - 30° | 275/330 gal horizontal obround double tap                                            |                                                                                    |                                                                                    |                                                                                                                                                                                                                                           |
|                        |                                                                                     | 4412-052                                                                                                                                                                            | 1" NPT(M) x 60" - 30° | 330 gal vertical obround                                                             |                                                                                    |                                                                                    |                                                                                                                                                                                                                                           |
|                        |                                                                                     | 4412-049                                                                                                                                                                            | 1" NPT(M) x 32" - 30° | 275 gal tote                                                                         | Wall mount bracket                                                                 |  | 4411-008 Wall mount bracket for LYNX® and Panther® HP                                                                                                                                                                                     |
|                        |                                                                                     | 4412-050                                                                                                                                                                            | 1" NPT(M) x 39" - 30° | 330 gal tote                                                                         |                                                                                    |                                                                                    |                                                                                                                                                                                                                                           |
| Bung adapter           |    | 4411-018N Double tap bushing, nickel plated stainless steel; for use with Panther® HP W/ pressure relief                                                                            |                       | Dollies                                                                              |  | 4310-001 Band dolly, 16 gal/120 lb                                                 |                                                                                                                                                                                                                                           |
| Filter regulator (F/R) |    | 3260-033 F/R mini auto drain 1/4" NPT(F)<br>See pg. 175 for complete listing                                                                                                        |                       |                                                                                      |                                                                                    | 4310-003 Band dolly, 16 gal/120 lb wide track                                      |                                                                                                                                                                                                                                           |
| Dispense hose          |  | 8249-005 Dispense hose 5' x 1/2"                                                                                                                                                    | Carts                 |   | 4320-010 4 Wheel drum cart: 120 lb/16 gal                                          |                                                                                    |                                                                                                                                                                                                                                           |
|                        |                                                                                     | 8263-010 Dispense hose 10' x 3/4"                                                                                                                                                   |                       |                                                                                      | 4320-013 3 Wheel drum cart: 400 lb/55 gal                                          |                                                                                    |                                                                                                                                                                                                                                           |
|                        |                                                                                     | 8263-016 Dispense hose 16' x 3/4"                                                                                                                                                   |                       |                                                                                      | 4320-014 Heavy duty drum cart: 400 lb/55 gal, 3 wheels with rear locking caster.   |                                                                                    |                                                                                                                                                                                                                                           |
| Connecting hose kit    |  | 4410-054 Connecting hose kit Panther®:<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>3270-003 Coupler 1/4"<br>3270-004 Nipple 1/4"<br>3270-053 Bushing 3/4" x 1/2" | Hose reel mount kit   |  | To mount hose reel, use 2230-036 hose reel mount kit.                              |                                                                                    |                                                                                                                                                                                                                                           |
|                        |                                                                                     |                                                                                                                                                                                     |                       | 2230-036 Hose reel mount kit for 4320-014 Heavy duty drum cart                       |                                                                                    |                                                                                    |                                                                                                                                                                                                                                           |

Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.

# Oil Piston Pumps

## PANTHER® HP 5:1 Pumps

The Panther® HP 5:1 ratio double acting pump is engineered for outstanding performance and reliability for dispensing lubricating oils and similar products up to SAE 90.



| Dimensions inches (MM) |                     |                    |                      |
|------------------------|---------------------|--------------------|----------------------|
| 1130-016 & 1130-021    |                     |                    |                      |
| A                      | B                   | C                  | D                    |
| 23.5"<br>(523.9 mm)    | 14 3/8"<br>(285 mm) | 2 4/5"<br>(71 mm)  | 6 1/2"<br>(158.7 mm) |
| 1130-018               |                     |                    |                      |
| 21 8/9"<br>(555.6 mm)  | 14 3/8"<br>(285 mm) | 1 7/8"<br>(476 mm) | 7 1/2"<br>(190.5 mm) |

### TECHNICAL DATA

|                                                                                         |                                                                                       |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Operating air pressure                                                                  | 10-150 psi ( 0.7-10 bar)                                                              |
| Cycles per gallon                                                                       | 57 cyc/gal (15.06 cyc/liter)                                                          |
| Air consumption 100 psi (7 bar) & 4 gal/min (15 l/min)                                  | 24.80 SCFM                                                                            |
| Max fluid stall pressure @150 psi (10 bar) <sup>(1)</sup>                               | 760 psi (52 bar)                                                                      |
| Effective air piston diameter                                                           | 2.5" (63.5 mm)                                                                        |
| Free Flow pump delivery with SAE 10W30 oil, 68° F (20° C), 100 psi (7 bar) air pressure | 6 gal/min (30 l/min)                                                                  |
| Air inlet                                                                               | 1/4" NPT(F)                                                                           |
| Fluid inlet                                                                             | 1" NPT(F); 1 1/2" NPT(M)                                                              |
| Fluid outlet                                                                            | 1/2" NPT(F)                                                                           |
| Wetted materials                                                                        | Steel, Nickel Plated Steel, Stainless Steel, Aluminum, Ultrathane, Buna-N™, and Nylon |
| Service Bulletin                                                                        | SB 1064                                                                               |

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

(1) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

**Warning!** Do not use any Pride series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Transmission Fluid Gear Oil

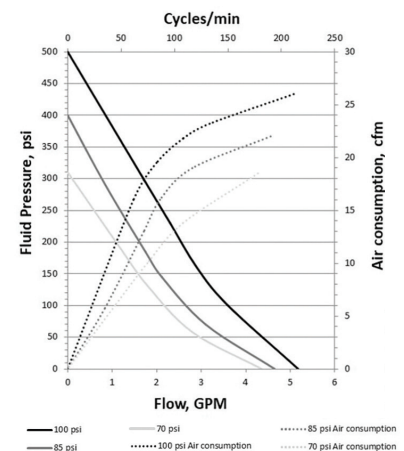
Pride Series pumps are manufactured with a mechanical air valve and piston design which is more forgiving to environments with contaminated air. The 5:1 version is a medium pressure pump for supplying higher pressures and for longer pumping distances than the 3:1 version but at lower volume ideal for longer pumping distances and overall flow rates of 4 gpm.

### Applications

- Medium sized tank packages
- Medium volume maintenance shops
- Small car dealerships
- Quick lubes

**Pressure relief valve kit included with this pump.**

| MODELS AVAILABLE | DESCRIPTION                                   |
|------------------|-----------------------------------------------|
| <b>1130-016</b>  | 5:1 Bare carbon steel stub pump               |
| <b>1130-018</b>  | 5:1 Bare carbon steel stub pump, flange mount |
| <b>1130-021</b>  | 5:1 Bare carbon steel pump with bung adapter  |



# Oil Piston Pumps PANTHER® HP 5:1 Pump Packages

1














| 16 GAL PUMP PACKAGES                | 16 GAL<br>NON-METERED<br>1131-064 | 16 GAL<br>METERED<br>1131-063 |
|-------------------------------------|-----------------------------------|-------------------------------|
| Pump                                | 1130-016                          | 1130-016                      |
| MP Fluid Hose 10' x 1/2"            | 8249-010                          | 8249-010                      |
| LP Hose 5' x 3/8"                   | 8132-005                          | 8132-005                      |
| Suction tube 1" NPT(M) x 18" - 30°  | 4412-044                          | 4412-044                      |
| Handle w/Flex-memory Ext & 1/4 turn | 3320-024                          | 3330-159                      |
| F/R Mini Auto Drain 1/4" NPT(F)     | 3260-033                          | 3260-033                      |
| Air Coupler 1/4"                    | 3270-003                          | 3270-003                      |
| Air Nipple 1/4"                     | 3270-004                          | 3270-004                      |
| Bung Adapter                        | 4411-009N                         | 4411-009N                     |
| OPTIONAL ACCESSORIES                |                                   |                               |
| Cart                                | 4320-010                          | 4320-010                      |
| Dolly                               | 4310-001                          | 4310-001                      |



| 55 GAL PUMP PACKAGES                | 55 GAL<br>NON-METERED<br>1131-066 | 55 GAL<br>METERED<br>1131-065 |
|-------------------------------------|-----------------------------------|-------------------------------|
| Pump                                | 1130-016                          | 1130-016                      |
| MP Fluid Hose 10' x 1/2"            | 8249-010                          | 8249-010                      |
| LP Hose 5' x 3/8"                   | 8132-005                          | 8132-005                      |
| Suction tube 1" NPT(M) x 26" - 30°  | 4412-046                          | 4412-046                      |
| Handle w/Flex-memory Ext & 1/4 turn | 3320-024                          | 3330-159                      |
| F/R Mini Auto Drain 1/4" NPT(F)     | 3260-033                          | 3260-033                      |
| Air Coupler 1/4"                    | 3270-003                          | 3270-003                      |
| Air Nipple 1/4"                     | 3270-004                          | 3270-004                      |
| Bung Adapter                        | 4411-009N                         | 4411-009N                     |
| OPTIONAL ACCESSORIES                |                                   |                               |
| Cart                                | 4320-013                          | 4320-013                      |
| Dolly                               | 4310-004                          | 4310-004                      |

# Oil Piston Pumps

## PANTHER® HP 5:1 Pump Components

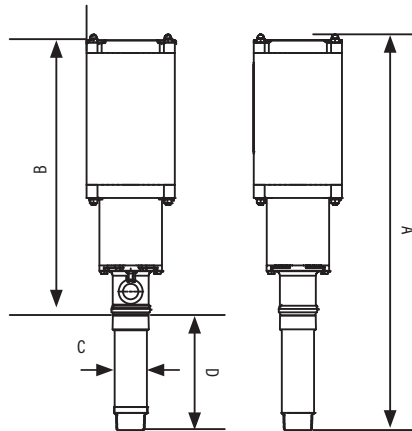
|                        |                                                                                     |                                  |                                                                                                                                                                             |                                  |                       |                                                                                      |                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suction tubes          |    | 4412-044                         | 1" NPT(M) x 18" - 30°                                                                                                                                                       | 16 gal drum                      | Control handles       |    | 3330-159 DR, Flex-mem. ext., 1/4 turn                                                                                                                                                                                                     |
|                        |                                                                                     | 4412-046                         | 1" NPT(M) x 26" - 30°                                                                                                                                                       | 55 gal drum                      |                       |                                                                                      | 3330-205 M0, Flex-mem. ext., 1/4 turn                                                                                                                                                                                                     |
|                        |                                                                                     | 4412-045                         | 1" NPT(M) x 21" - 30°                                                                                                                                                       | 165/280 gal bench tank           |                       |                                                                                      | 3330-192 MR, Qts., Flex-mem. ext., 1/4 turn                                                                                                                                                                                               |
|                        |                                                                                     | Wall mount kit                   |                                                                                           | 4412-048                         | 1" NPT(M) x 30" - 30° | 165/280 gal bench tank double tap                                                    | 4410-022 Wall mount kit for Panther®<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>8181-006 Suction Hose 6' x 1"<br>4412-015 Suction Tube 1" NPT(M) x 48" - 30°<br>4411-009N Bung Adapter<br>4411-008 Wall mount bracket |
|                        |                                                                                     |                                  |                                                                                                                                                                             | 4412-047                         | 1" NPT(M) x 28" - 30° | 250 gal bench tank double tap                                                        |                                                                                                                                                                                                                                           |
|                        |                                                                                     |                                  |                                                                                                                                                                             | 4412-051                         | 1" NPT(M) x 42" - 30° | 275/330 gal horizontal obround double tap                                            |                                                                                                                                                                                                                                           |
|                        |                                                                                     |                                  |                                                                                                                                                                             | 4412-052                         | 1" NPT(M) x 60" - 30° | 330 gal vertical obround                                                             |                                                                                                                                                                                                                                           |
|                        |                                                                                     | Wall mount bracket               |                                                                                           | 4412-049                         | 1" NPT(M) x 32" - 30° | 275 gal tote                                                                         | 4411-008 Wall mount bracket for Panther® HP                                                                                                                                                                                               |
|                        |                                                                                     |                                  |                                                                                                                                                                             | 4412-050                         | 1" NPT(M) x 39" - 30° | 330 gal tote                                                                         |                                                                                                                                                                                                                                           |
| Bung adapter           |    | 4411-018N                        | Double tap bushing, nickel plated stainless steel; for use with Panther® HP W/ pressure relief                                                                              |                                  | Dollies               |    | 4310-001 Band dolly, 16 gal/120 lb                                                                                                                                                                                                        |
| Filter regulator (F/R) |   | 3260-033                         | F/R mini auto drain 1/4" NPT(F)                                                                                                                                             |                                  |                       |                                                                                      | 4310-003 Band dolly, 16 gal/120 lb wide track                                                                                                                                                                                             |
|                        |                                                                                     | See pg. 175 for complete listing |                                                                                                                                                                             | 4310-004 Dolly, 55 gal/400 lb HD |                       |                                                                                      |                                                                                                                                                                                                                                           |
| Dispense hose          |  | 8249-005                         | Dispense hose 5' x 1/2"                                                                                                                                                     |                                  | Carts                 |   | 4320-010 4 Wheel drum cart: 120 lb/16 gal                                                                                                                                                                                                 |
|                        |                                                                                     | 8263-010                         | Dispense hose 10' x 3/4"                                                                                                                                                    |                                  |                       |                                                                                      | 4320-013 3 Wheel drum cart: 400 lb/55 gal                                                                                                                                                                                                 |
|                        |                                                                                     | 8263-016                         | Dispense hose 16' x 3/4"                                                                                                                                                    |                                  |                       |                                                                                      | 4320-014 Heavy duty drum cart: 400 lb/55 gal, 3 wheels with rear locking caster.<br>To mount hose reel, use 2230-036 hose reel mount kit.                                                                                                 |
| Connecting hose kit    |  | 4410-054                         | Connecting hose kit Panther® :<br>8132-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>3270-003 Coupler 1/4"<br>3270-004 Nipple 1/4"<br>3270-053 Bushing 3/4" x 1/2" |                                  | Hose reel mount kit   |  | 2230-036 Hose reel mount kit for 4320-014 Heavy duty drum cart                                                                                                                                                                            |

Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.

# Oil Piston Pumps

## TIGER® HP 6:1 Pumps

The Tiger® HP 6:1 ratio double acting pump is engineered for outstanding performance and reliability for dispensing lubricating oils and similar products up to SAE 90.



| Dimensions inches (MM) |                       |                   |                  |
|------------------------|-----------------------|-------------------|------------------|
| A                      | B                     | C                 | D                |
| 21 5/7"<br>(544.5 mm)  | 16 1/4"<br>(412.9 mm) | 2 1/8"<br>(54 mm) | 4"<br>(101.6 mm) |

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Transmission Fluid Gear Oil

Tiger® is the largest of the Pride series pumps. Pride series pumps are manufactured with a mechanical air valve and piston ring which is more forgiving of environments with contaminated air. The 6:1 version is a medium pressure pump for supplying higher pressures and longer pumping distances. The larger 3.2" air motor makes this pump ideal for larger users who need higher flow rates and slower pump cycle rates.

### Applications

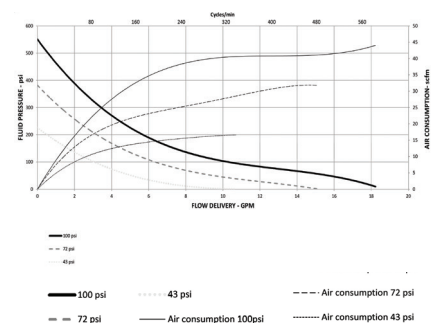
- Large sized tank packages
- Medium-large volume maintenance shops
- Medium to large volume car dealerships
- HD truck/fleet shops
- Off-road construction maintenance shops
- Mass-transit maintenance shops

**Pressure relief valve kit included with this pump.**

**Windshield wash fluid & water based fluids for use with 1160-007 stainless steel model only.**

| TECHNICAL DATA                                                                          |                                                                  |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Operating air pressure                                                                  | 40-150 psi (3-10 bar)                                            |
| Cycles per gallon                                                                       | 31 cyc/gal (8.2 cyc/liter)                                       |
| Air consumption 100 psi (7 bar) & 8 gal/min (30 l/min)                                  | 59 SCFM                                                          |
| Max fluid stall pressure @150 psi (10 bar) <sup>(1)</sup>                               | 870 psi (60 bar)                                                 |
| Effective Air Piston Diameter                                                           | 3.2" (81 mm)                                                     |
| Free flow pump delivery with SAE 10W30 oil, 68° F (20° C), 100 psi (7 bar) air pressure | 16 gal/min (61 l/min)                                            |
| Air inlet                                                                               | 3/8" NPT(F)                                                      |
| Fluid inlet                                                                             | 1" NPT(F); 1 1/2" NPT(M)                                         |
| Fluid outlet                                                                            | 3/4" NPT(F)                                                      |
| Wetted materials<br>1130-019 - 1130-025 - 1130-026                                      | Carbon steel, Buna-N™, Stainless steel, Ultrathane® and Aluminum |
| 1160-007                                                                                | Stainless Steel and Viton®                                       |
| Service Bulletin                                                                        | SB 1065                                                          |

| MODELS AVAILABLE | DESCRIPTION                                       |
|------------------|---------------------------------------------------|
| <b>1130-019</b>  | 6:1 Bare carbon steel stub pump                   |
| <b>1130-025</b>  | 6:1 Bare carbon steel stub pump, flange mount     |
| <b>1130-026</b>  | 6:1 Bare carbon steel stub pump with bung adapter |
| <b>1160-007</b>  | 6:1 Bare stainless steel stub pump                |



NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

(1) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

**Warning!** Do not use any Pride series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

# Oil Piston Pumps

## TIGER® HP 6:1 Pump Packages

1



| TIGER® 6:1 PUMP PACKAGE             | 55 GAL<br>NON-METERED<br>1131-068 |
|-------------------------------------|-----------------------------------|
| Pump                                | 1130-026                          |
| MP Fluid Hose 10' x 1/2"            | 8249-010                          |
| LP Hose 5' x 3/8"                   | 8134-005                          |
| Suction tube 1" NPT(M) x 26" - 30"  | 4412-046                          |
| Handle w/Flex-memory Ext & 1/4 turn | 3320-024                          |
| F/R Auto Drain 3/8" NPT(F)          | 3260-035                          |
| Air Coupler 3/8"                    | 3270-121                          |
| Air Nipple 3/8"                     | 3270-122                          |
| OPTIONAL ACCESSORIES                |                                   |
| Cart                                | 4320-013                          |
| Dolly                               | 4310-004                          |














| TIGER® 6:1 PUMP PACKAGE             | 55 GAL<br>METERED<br>1131-067 |
|-------------------------------------|-------------------------------|
| Pump                                | 1130-026                      |
| MP Fluid Hose 10' x 1/2"            | 8249-010                      |
| LP Hose 5' x 3/8"                   | 8134-005                      |
| Suction tube 1" NPT(M) x 26" - 30"  | 4412-046                      |
| Handle w/Flex-memory Ext & 1/4 turn | 3330-159                      |
| F/R Auto Drain 3/8" NPT(F)          | 3260-035                      |
| Air Coupler 3/8"                    | 3270-121                      |
| Air Nipple 3/8"                     | 3270-122                      |
| OPTIONAL ACCESSORIES                |                               |
| Cart                                | 4320-013                      |
| Dolly                               | 4310-004                      |

# Oil Piston Pumps

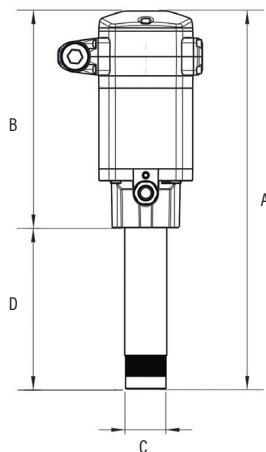
## TIGER® HP 6:1 Pump Components

1

|                       |                                                                                     |                    |                                                                                                                                                                   |                                                               |                       |                                                                                      |                                                                                                                                                                                                                              |
|-----------------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suction tubes         |    | 4412-044           | 1" NPT(M) x 18" - 30°                                                                                                                                             | 16 gal drum                                                   | Control handles       |    | 3330-159 DR, Flex-mem. ext., 1/4 turn                                                                                                                                                                                        |
|                       |                                                                                     | 4412-046           | 1" NPT(M) x 26" - 30°                                                                                                                                             | 55 gal drum                                                   |                       |                                                                                      | 3330-205 M0, Flex-mem. ext., 1/4 turn                                                                                                                                                                                        |
|                       |                                                                                     | 4412-045           | 1" NPT(M) x 21" - 30°                                                                                                                                             | 165/280 gal bench tank                                        |                       |                                                                                      | 3330-192 MR, Qts., Flex-mem. ext., 1/4 turn                                                                                                                                                                                  |
|                       |                                                                                     | Wall mount kit     |                                                                                 | 4412-048                                                      | 1" NPT(M) x 30" - 30° | 165/280 gal bench tank double tap                                                    | 4410-065 Wall mount kit<br>8134-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>8181-006 Suction Hose 6' x 1"<br>4412-052 Suction Tube 1" NPT(M) x 60" - 30°<br>4411-009N Bung Adapter<br>4411-008 Wall mount bracket |
|                       |                                                                                     |                    |                                                                                                                                                                   | 4412-047                                                      | 1" NPT(M) x 28" - 30° | 250 gal bench tank double tap                                                        |                                                                                                                                                                                                                              |
|                       |                                                                                     |                    |                                                                                                                                                                   | 4412-051                                                      | 1" NPT(M) x 42" - 30° | 275/330 gal horizontal obround double tap                                            |                                                                                                                                                                                                                              |
|                       |                                                                                     |                    |                                                                                                                                                                   | 4412-052                                                      | 1" NPT(M) x 60" - 30° | 330 gal vertical obround                                                             |                                                                                                                                                                                                                              |
|                       |                                                                                     |                    |                                                                                                                                                                   | 4412-049                                                      | 1" NPT(M) x 32" - 30° | 275 gal tote                                                                         |                                                                                                                                                                                                                              |
|                       |                                                                                     | Wall mount bracket |                                                                                 | 4411-008 Wall mount bracket for LYNX®, Panther® HP and Tiger® |                       |                                                                                      |                                                                                                                                                                                                                              |
| Bung adapter          |    | 4411-018N          | Double tap bushing, nickel plated stainless steel: for use with Panther® HP W/ pressure relief                                                                    |                                                               | Dollies               |    | 4310-001 Band dolly, 16 gal/120 lb                                                                                                                                                                                           |
|                       |                                                                                     | 4310-003           | Band dolly, 16 gal/120 lb wide track                                                                                                                              |                                                               |                       |                                                                                      | 4310-004 Dolly, 55 gal/400 lb HD                                                                                                                                                                                             |
| Filer regulator (F/R) |    | 3260-035           | F/R auto drain 3/8" NPT(F)<br>See pg. 175 for complete listing                                                                                                    |                                                               | Carts                 |   | 4320-010 4 Wheel drum cart: 120 lb/16 gal                                                                                                                                                                                    |
| Dispense hose         |  | 8249-005           | Dispense hose 5' x 1/2"                                                                                                                                           |                                                               |                       |                                                                                      | 4320-013 3 Wheel drum cart: 400 lb/55 gal                                                                                                                                                                                    |
|                       |                                                                                     | 8263-010           | Dispense hose 10' x 3/4"                                                                                                                                          |                                                               |                       |                                                                                      | 4320-014 Heavy duty drum cart: 400 lb/55 gal, 3 wheels with rear locking caster.<br>To mount hose reel, use 2230-036 hose reel mount kit.                                                                                    |
|                       |                                                                                     | 8263-016           | Dispense hose 16' x 3/4"                                                                                                                                          |                                                               |                       |                                                                                      |                                                                                                                                                                                                                              |
| Connecting hose kit   |  | 4410-066           | Connecting hose kit:<br>8134-005 LP Hose 5' x 3/8"<br>8249-005 MP Hose 5' x 1/2"<br>3270-003 Coupler 1/4"<br>3270-004 Nipple 1/4"<br>3270-053 Bushing 3/4" x 1/2" |                                                               | Hose reel mount kit   |  | 2230-036 Hose reel mount kit for 4320-014 Heavy duty drum cart                                                                                                                                                               |

Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.

# Oil Piston Pumps Lion™ 350 - 5:1 Pump



| Dimensions inches (MM) |                 |                   |                 |
|------------------------|-----------------|-------------------|-----------------|
| 1430-010               |                 |                   |                 |
| A                      | B               | C                 | D               |
| 18"<br>(457 mm)        | 10"<br>(254 mm) | 1-1/2"<br>NPT (F) | 8"<br>(200 mm)  |
| 1430-012               |                 |                   |                 |
| 47"<br>(1194 mm)       | 39"<br>(991 mm) | 1-1/2"<br>NPT (F) | 36"<br>(925 mm) |

## Synthetic and Mineral Based Oils Hydraulic Oil Gear Oil Transmission Fluid

Double-acting, air operated, medium pressure, heavy-duty pumps for dispensing lubricants in medium to large size installations, which may include simultaneous dispense points. Built in port for the included pressure relief valve kit. (3120-214)

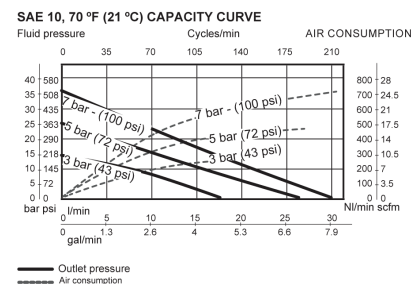
### Applications

- Railroad and mass transit vehicle maintenance
- Fleet service facilities
- Marine
- Auto and truck dealerships
- Mining and construction
- Lube truck

**Pressure relief valve kit included with this pump.**

| TECHNICAL DATA                 |                                                        |
|--------------------------------|--------------------------------------------------------|
| Pump ratio                     | 5:1                                                    |
| Operating air pressure         | 30 to 175 psi (2 to 12 bar)                            |
| Air Consumption <sup>(1)</sup> | 12.4 CFM (350 NI/min)                                  |
| Maximum pressure               | 170 psi 12 bar                                         |
| Air motor effective diameter   | 3.25" (80 mm)                                          |
| Air motor stroke               | 3.15" (80 mm)                                          |
| Delivery at 80 cpm             | 3.2 gal/min at 100 psi (12 l/min at 5 bar)             |
| Flow rate                      | 8 gal/min (30 l/min)                                   |
| Air inlet                      | 3/8" NPT (F)                                           |
| Fluid inlet (stub pump only)   | 1 1/2" NPT (F)                                         |
| Fluid outlet                   | 1/2" NPT (F)                                           |
| Wetted materials               | Steel, Hard Chromed Steel, Polyurethane, NBR, Aluminum |
| Service Bulletin               | SB 1155                                                |

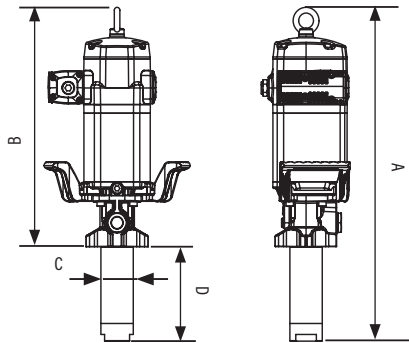
| MODELS AVAILABLE | DESCRIPTION                  |
|------------------|------------------------------|
| <b>1430-010</b>  | Lion™ 350 5:1 Stub Pump Bung |
| <b>1430-012</b>  | Lion™ 350 5:1 Drum Pump      |



# Oil Piston Pumps

## Lion™ 450 - 3:1 Pump

1



| Dimensions inches (MM) |                     |                     |                     |
|------------------------|---------------------|---------------------|---------------------|
| A                      | B                   | C                   | D                   |
| 27 7/8"<br>(707 mm)    | 19 7/8"<br>(505 mm) | 3 35/64"<br>(90 mm) | 8 1/32"<br>(204 mm) |

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Gear Oil Transmission Fluid

Medium pressure pump for oil systems where high volume dispensing using simultaneous dispense points is required. This pump is recommended for medium pumping distances.

### Applications

- Heavy duty truck/fleet
- Railroad/mass transit vehicle maintenance
- In-plant high volume transfer
- Marine
- Mining vehicle maintenance
- Large automotive dealerships

**Pressure relief valve kit included with this pump.**

**Wall or floor mount only. Pump OD does not fit 2" bung adapter. See pg. 32 for mounting bracket (4411-031).**

### TECHNICAL DATA

|                                          |                                                                                                                     |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Operating air pressure                   | 30 to 180 psi (2 to 12.4 bar)                                                                                       |
| Cycles per gallon                        | 6                                                                                                                   |
| Air Consumption <sup>(1)</sup>           | 28 CFM (800 NI/min)                                                                                                 |
| Max fluid outlet pressure <sup>(3)</sup> | 510 psi (36 bar)                                                                                                    |
| Air motor effective diameter             | 4.5" (115 mm)                                                                                                       |
| Air motor stroke                         | 4" (100 mm)                                                                                                         |
| Delivery at 80 cpm                       | 12 gal/min (45 l/min)                                                                                               |
| Max free flow delivery                   | 32 gal/min (120 l/min)                                                                                              |
| Air inlet                                | 1/2" NPT(F)                                                                                                         |
| Fluid inlet                              | 1 1/2" NPT(F)                                                                                                       |
| Fluid outlet                             | 3/4" NPT(F)                                                                                                         |
| Wetted materials                         | Steel, Hard Chromed Steel, Zinc Plated Steel, Stainless Steel, Cast Iron, Polyurethane, Buna-N™, Bronze Filled PTFE |
| Noise level <sup>(2)</sup>               | 80 dB                                                                                                               |
| Service Bulletin                         | SB 1134                                                                                                             |

- (1) Maximum air consumption with 75 psi (5 bar) air inlet pressure and 80 cpm.  
 (2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.  
 (3) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

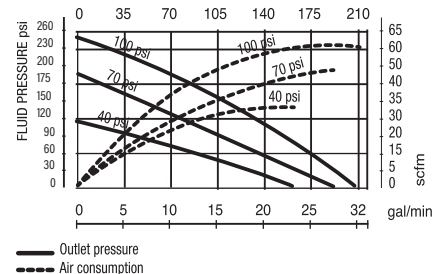
Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

| MODELS AVAILABLE | DESCRIPTION             |
|------------------|-------------------------|
| <b>1430-001</b>  | Lion™ 450 3:1 stub pump |

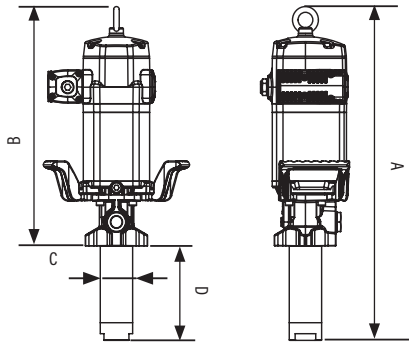
### TEST FLUID: SAE 10

Cycles/min.



# Oil Piston Pumps

## Lion™ 450 - 6:1 Pump



| Dimensions inches (MM) |                 |                   |                |
|------------------------|-----------------|-------------------|----------------|
| A                      | B               | C                 | D              |
| 28"<br>(702 mm)        | 20"<br>(502 mm) | 2 3/4"<br>(70 mm) | 8"<br>(200 mm) |

### TECHNICAL DATA

|                                          |                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------|
| Operating air pressure                   | 30 to 180 psi (2 to 12.4 bar)                                                      |
| Cycles per gallon                        | 11                                                                                 |
| Air Consumption <sup>(1)</sup>           | 29 CFM (830 NI/min)                                                                |
| Max fluid outlet pressure <sup>(3)</sup> | 1,020 psi (72 bar)                                                                 |
| Air motor effective diameter             | 4.5" (115 mm)                                                                      |
| Air motor stroke                         | 4" (100 mm)                                                                        |
| Delivery at 80 cpm                       | 7 gal/min (25 l/min)                                                               |
| Max free flow delivery                   | 26 gal/min (98 l/min)                                                              |
| Air inlet                                | 1/2" NPT(F)                                                                        |
| Fluid inlet                              | 1 1/2" NPT(F)                                                                      |
| Fluid outlet                             | 3/4" NPT(F)                                                                        |
| Wetted materials                         | Cast Iron, Hard Chromed Steel, Steel, Polyurethane, Buna-N <sup>®</sup> , and Zinc |
| Noise level <sup>(2)</sup>               | 80 dB                                                                              |
| Service Bulletin                         | SB 1135                                                                            |

(1) Maximum air consumption with 75 psi (5 bar) air inlet pressure and 80 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

(3) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Gear Oil Transmission Fluid

Medium pressure pump for oil systems where high volume dispensing using simultaneous dispense points is required. Medium/high pressure pump is recommended for longer pumping distances.

### Applications

- Heavy duty truck/fleet
- Railroad/mass transit vehicle maintenance
- In-plant high volume transfer
- Marine
- Mining vehicle maintenance
- Large automotive dealerships

**Pressure relief valve kit included with this pump.**

**Wall or floor mount only. Pump OD does not fit 2" bung adapter. See pg. 32 for mounting bracket (4411-031).**

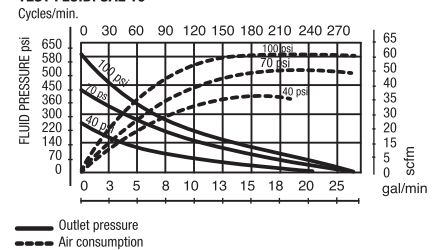
### MODELS AVAILABLE

**1430-002**

### DESCRIPTION

Lion™ 450 6:1 stub pump

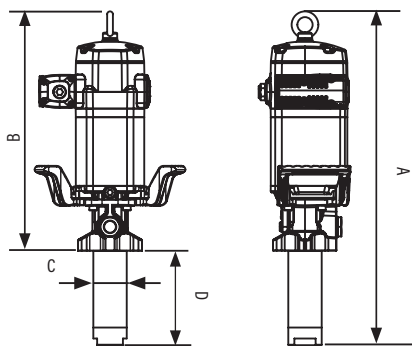
### TEST FLUID: SAE 10



# Oil Piston Pumps

## Lion™ 450 - 10:1 Pumps

1



| Dimensions inches (MM) |                     |                   |                       |
|------------------------|---------------------|-------------------|-----------------------|
| 1430-003               |                     |                   |                       |
| A                      | B                   | C                 | D                     |
| 28"<br>(702 mm)        | 20"<br>(502 mm)     | 2 1/8"<br>(54 mm) | 8"<br>(200 mm)        |
| 1430-004               |                     |                   |                       |
| 56 1/4"<br>(1.430 mm)  | 19 7/8"<br>(505 mm) | 2 1/8"<br>(54 mm) | 36 13/32"<br>(925 mm) |

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Gear Oil Transmission Fluid

High pressure pump for oil systems where medium volume dispensing using simultaneous dispense points is required. High pressure pump is recommended for long pumping distances and/or cold weather applications.

### Applications

- Heavy duty truck/fleet
- Railroad/mass transit vehicle maintenance
- In-plant high volume transfer
- Marine
- Mining vehicle maintenance
- Large automotive dealerships

**Pressure relief valve kit included with this pump.**

**Pump bung is mountable using 4411-032**

### TECHNICAL DATA

|                                          |                                                                       |
|------------------------------------------|-----------------------------------------------------------------------|
| Operating air pressure                   | 30 to 180 psi (2 to 12.4 bar)                                         |
| Cycles per gallon                        | 19                                                                    |
| Air Consumption <sup>(1)</sup>           | 30 CFM (850 NI/min)                                                   |
| Max fluid outlet pressure <sup>(3)</sup> | 1,700 psi (120 bar)                                                   |
| Air motor effective diameter             | 4.5" (115 mm)                                                         |
| Air motor stroke                         | 4" (100 mm)                                                           |
| Delivery at 80 cpm                       | 4 gal/min (15 l/min)                                                  |
| Max free flow delivery                   | 18 gal/min (68 l/min)                                                 |
| Air inlet                                | 1/2" NPT(F)                                                           |
| Fluid inlet                              | 1 1/2" NPT(F)                                                         |
| Fluid outlet                             | 3/4" NPT(F)                                                           |
| Wetted materials                         | Cast Iron, Hard Chromed Steel, Steel, Polyurethane, Buna-N™, and Zinc |
| Noise level <sup>(2)</sup>               | 80 dB                                                                 |
| Service Bulletin                         | SB 1136                                                               |

(1) Maximum air consumption with 75 psi (5 bar) air inlet pressure and 80 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

(3) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

### MODELS AVAILABLE

**1430-003**

### DESCRIPTION

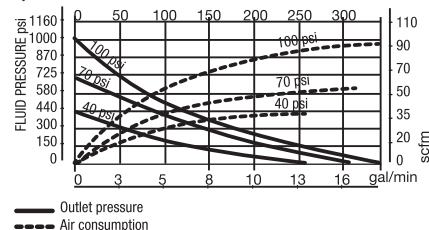
Lion™ 450 10:1 stub pump

**1430-004**

Lion™ 450 10:1 drum pump

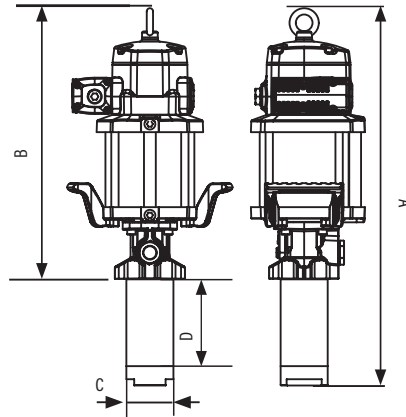
### TEST FLUID: SAE 10

Cycles/min



# Oil Piston Pumps

## Lion™ 600 - 6:1 Pump



| Dimensions inches (MM) |                       |                     |                     |
|------------------------|-----------------------|---------------------|---------------------|
| A                      | B                     | C                   | D                   |
| 28 3/8"<br>(721 mm)    | 20 23/64"<br>(517 mm) | 3 35/64"<br>(90 mm) | 8 1/32"<br>(204 mm) |

## Synthetic and Mineral Based Lubricants Hydraulic Fluid Gear Oil Transmission Fluid

Medium/high pressure pump for oil systems where high volume dispensing using simultaneous dispense points is required. This pump operates at slow cycle rates for high volume applications. Medium/high pressure pump is recommended for longer pumping distances.

### Applications

- Heavy duty truck/fleet
- Railroad/mass transit vehicle maintenance
- In-plant high volume transfer
- Marine
- Mining vehicle maintenance
- Large automotive dealerships

**Pressure relief valve kit included with this pump.**

**Wall or floor mount only. Pump OD does not fit 2" bung adapter. See pg. 32 for mounting bracket (4411-031).**

| TECHNICAL DATA                           |                                                                     |
|------------------------------------------|---------------------------------------------------------------------|
| Operating air pressure                   | 30 to 175 psi (2 to 12 bar)                                         |
| Cycles per gallon                        | 6                                                                   |
| Air Consumption <sup>(1)</sup>           | 39 CFM (1,100 NI/min)                                               |
| Max fluid outlet pressure <sup>(3)</sup> | 1,020 psi (72 bar)                                                  |
| Air motor effective diameter             | 6" (150 mm)                                                         |
| Air motor stroke                         | 4" (100 mm)                                                         |
| Delivery at 60 cpm                       | 9 gal/min (35 l/min)                                                |
| Max free flow delivery                   | 26 gal/min (100 l/min)                                              |
| Air inlet                                | 1/2" NPT(F)                                                         |
| Fluid inlet                              | 1 1/2" NPT(F)                                                       |
| Fluid outlet                             | 3/4" NPT(F)                                                         |
| Wetted materials                         | Cast Iron, Aluminum, Nickel, Steel, Polyurethane, Buna-N™, and Zinc |
| Noise level <sup>(2)</sup>               | 80 dB                                                               |
| Service Bulletin                         | SB 1137                                                             |

- (1) Maximum air consumption with 75 psi (5 bar) air inlet pressure and 80 cpm.  
 (2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.  
 (3) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

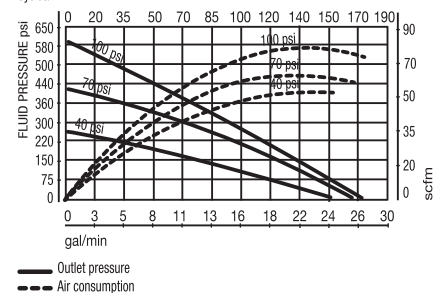
Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

| MODELS AVAILABLE | DESCRIPTION             |
|------------------|-------------------------|
| <b>1430-005</b>  | Lion™ 600 6:1 stub pump |

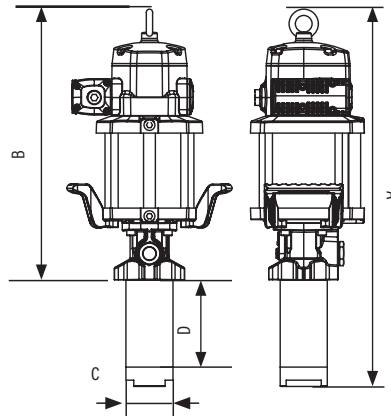
### TEST FLUID: SAE 10

Cycles/min



# Oil Piston Pumps

## Lion™ 600 - 12:1 Pump



| Dimensions inches (MM) |                     |                   |                |
|------------------------|---------------------|-------------------|----------------|
| A                      | B                   | C                 | D              |
| 28 1/4"<br>(716 mm)    | 20 1/3"<br>(516 mm) | 2 3/4"<br>(70 mm) | 8"<br>(200 mm) |

## Synthetic And Mineral Based Lubricants Hydraulic Fluid Gear Oil Transmission Fluid

High pressure pump and high-volume, can be used with simultaneous dispense points. This pump operates at slow cycle rates for large shops requiring long pumping distances applications or when cold weather or low air pressure could limit pump performance.

### Applications

- Heavy duty truck/fleet
- Railroad/mass transit vehicle maintenance
- In-plant high volume transfer
- Marine
- Mining vehicle maintenance
- Large automotive dealerships

**Pressure relief valve kit included with this pump.**

**Wall or floor mount only. Pump OD does not fit 2" bung adapter. See pg. 32 for mounting bracket (4411-031).**

### TECHNICAL DATA

|                                          |                                                                 |
|------------------------------------------|-----------------------------------------------------------------|
| Operating air pressure                   | 30 to 180 psi (2 to 12.4 bar)                                   |
| Cycles per gallon                        | 11                                                              |
| Air Consumption <sup>(1)</sup>           | 41 CFM (1,150 NI/min)                                           |
| Max fluid outlet pressure <sup>(3)</sup> | 2,040 psi (144 bar)                                             |
| Air motor effective diameter             | 6" (150 mm)                                                     |
| Air motor stroke                         | 4" (100 mm)                                                     |
| Delivery at 60 cpm                       | 5 gal/min (20 l/min)                                            |
| Max free flow delivery                   | 17 gal/min (65 l/min)                                           |
| Air inlet                                | 1/2" NPT(F)                                                     |
| Fluid inlet                              | 1 1/2" NPT(F)                                                   |
| Fluid outlet                             | 3/4" NPT(F)                                                     |
| Wetted materials                         | Cast Iron, Hard Chromed Steel, Steel, Polyurethane, and Buna-N™ |
| Noise level <sup>(2)</sup>               | 80 dB                                                           |
| Service Bulletin                         | SB 1138                                                         |

(1) Maximum air consumption with 75 psi (5 bar) air inlet pressure and 80 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

(3) Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor.

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage lubrication system components. Use pressure relief valve kit included with this pump.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for specific system design performance and technical data.

### MODELS AVAILABLE

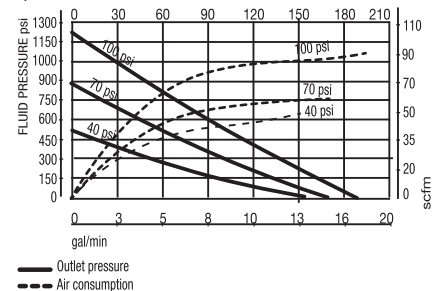
**1430-006**

### DESCRIPTION

Lion™ 600 12:1 stub pump

### TEST FLUID: SAE 10

Cycles/min



# Oil Piston Pumps Accessories Mobile Oil Packages

1



|                                 | 7120-018<br>PANTHER® HP 3:1 | 7120-019<br>PANTHER® HP 5:1 | 7120-017<br>TIGER® HP 6:1 |
|---------------------------------|-----------------------------|-----------------------------|---------------------------|
| Designed for Drum Size          | 400 lb / 55 gal             | 400 lb / 55 gal             | 400 lb / 55 gal           |
| Bare Pump                       | 1130-015                    | 1130-016                    | 1130-019                  |
| Air Hose 5'                     | 8132-005                    | 8132-005                    | 8144-005                  |
| Fluid Hose 10'                  | 8262-010                    | 8262-010                    | 8261-010                  |
| Suction Tube 26.5" X 1" NPT(M)  | 4412-046                    | 4412-046                    | 4412-046                  |
| Drum Cover Offset               | 4420-013                    | 4420-013                    | 4420-013                  |
| Flange Mount kit for drum cover | 7120-026                    | 7120-026                    | 7120-026                  |
| Hold Down Kit 400 lb            | 7120-024                    | 7120-024                    | 7120-024                  |
| Air coupler 1/4"                | 3270-003                    | 3270-003                    | -                         |
| Air coupler 3/8"                | -                           | -                           | 3270-121                  |
| Air nipple 1/4"                 | 3270-004                    | 3270-004                    | -                         |
| Air nipple 3/8"                 | -                           | -                           | 3270-122                  |















| MOBILE DRUM COVERS |                                 |
|--------------------|---------------------------------|
| MODEL #            | DESCRIPTION                     |
| 4420-014           | 120 lb / 16 gal (Lion™ 450/600) |
| 4420-013           | 400 lb / 55 gal (Lion™ 450/600) |
| 7120-012           | 400 lb / 55 gal (Panther™)      |





















| HOLD DOWN ROD KIT |                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------|
| MODEL #           | DESCRIPTION                                                                                        |
| 7120-025          | 120 lb / 16 gal Hold down rod kit, 120 lb for use with 4420-011, 4420-014, and 7120-020 Drum cover |
| 7120-024          | 400 lb / 55 gal, Hold down rod kit, 400 lb for use with 4420-013 Drum cover                        |

| 4-WAY REVERSING VALVE |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| MODEL #               | DESCRIPTION                                                       |
| 3230-014              | 4-Way reversing valve<br>1" NPT(F)<br>Pressure 200 psi (13.8 bar) |

# Oil Piston Pumps Lion™ 350 - 600 Accessories

1

|                        |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                 |                                                                                      |                                                                                      |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Suction tubes          |    | <b>4412-031</b> 1 1/2" NPT(M) x 38" - 30°                                                                                                                                                                                                                                                                                                                                                                                                                                               | 55 gal drum & bench tank      |                 |    | <b>3330-159</b> DR Flex-mem. ext., 1/4 turn                                          |
|                        |                                                                                     | <b>4412-032</b> 1 1/2" NPT(M) x 47" - 30°                                                                                                                                                                                                                                                                                                                                                                                                                                               | 275 horizontal obround tank   |                 |                                                                                      | <b>3330-205</b> M0, Flex-mem. ext., 1/4 turn                                         |
|                        |                                                                                     | <b>4412-033</b> 1 1/2" NPT(M) x 63" - 30°                                                                                                                                                                                                                                                                                                                                                                                                                                               | 275 gal vertical obround tank |                 |                                                                                      | <b>3330-192</b> MR, Qts. Flex-mem. ext., 1/4 turn                                    |
|                        |                                                                                     | <b>4412-034</b> 1 1/2" NPT(M) x 75" - 30°                                                                                                                                                                                                                                                                                                                                                                                                                                               | 330 gal vertical obround tank |                 |                                                                                      | <b>3320-051</b> Hi-flow, non-metered, rigid ext., 3/4" inlet                         |
| Connecting hose kit    |   | <b>4410-062</b> Connecting hose kit Lion™ 450/600<br>8149-005 LP Hose 5'x1/2"<br>8264-005 MP Hose 5'x3/4"<br>3270-132 Coupler, air 3/8" body, 1/2" FPT<br>3270-143 Nipple, air 3/8" body, 1/2" FPT<br>3270-158 Elbow 1/2"<br>3270-057 Union Swivel 3/4"<br><br><b>4410-064</b> Suction hose kit Lion™ 450/600<br>4411-021 Bung Adapter for suction tubes<br>8191-005 Suction Hose 5'x1 1/2"<br>833595 Elbow 1 1/2"<br>3270-160 Hex Nipple 1 1/2"<br><br>*Select Suction Tube from above |                               | Control handles |    | <b>3320-052</b> Hi-flow, non-metered, flex ext., 3/4" inlet                          |
|                        |                                                                                     | <b>4410-067</b> 5" Hose Kit Lion™ 350                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                 |    | <b>3320-053</b> Hi-flow, non-metered, rigid ext., 1" inlet                           |
|                        |                                                                                     | <b>4410-068</b> 2.5" Wall mount hose kit Lion™ 350                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                 |    | <b>3320-054</b> Hi-flow, non-metered, flex ext., 1" inlet                            |
| Filter/regulator (F/R) |  | <b>3260-036</b> F/R auto drain 1/2" NPT(F)<br><br>See pg. 175 for complete listing                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                 |                                                                                      |  |
| Mounting brackets      |  | <b>4411-030</b> Wall mount for new style Lion™ 450/600                                                                                                                                                                                                                                                                                                                                                                                                                                  |                               |                 |  | <b>3330-198</b> Hi-flow, metered, flex ext., 3/4" inlet                              |
|                        |                                                                                     | <b>4411-031</b> Floor mount for Lion™ 450/600                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                 |  | <b>3330-199</b> Hi-flow, metered, rigid ext., 1" inlet                               |
|                        |                                                                                     | <b>4411-039</b> Wall mount bracket for Lion™ 350                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                 |  | <b>3330-200</b> Hi-flow, metered, flex ext., 1" inlet                                |

| PISTON PUMP ACCESSORIES                                                                                                           |                                                                                                                                                                                    |                                                                                                                                                       |                                                                 |                                                                                      |                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Liquid Separator                                                                                                                  |                                                                                                   | Liquid Separator removes bulk liquid at all points within the compressed air system.<br><br><b>See pg. 174 for more details</b>                       | Low Level Cut-off                                               |    | <b>4411-005</b> Low Level Cut-off 3/4" NPT(F) / 1 1/2" NPT(M) adapter                    |
|                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                       |                                                                 |    | <b>4411-010</b> Low Level Cut-off 1/4" NPT(F) / 1" NPT(M) adapter                        |
| Bung adapters                                                                                                                     |                                                                                                   | <b>4411-009N</b> Bung adapter: Panther® HP & Tiger® W/ pressure relief port                                                                           | Pump runaway control prevents runaway condition when out of oil |   | <b>3241-003</b> Pump Runaway Control 1/2" NPT(F)<br><b>3241-004</b> Pump Runaway Bracket |
|                                                                                                                                   |                                                                                                   | <b>4411-009QX</b> Bung adapter: Panther® HP W/ pressure relief port - 10 pieces                                                                       | Inlet Check Valve Aluminum                                      |    | <b>4411-014</b> Inlet Check Valve 3/4" NPT(F)                                            |
|                                                                                                                                   |                                                                                                   | <b>4411-018N</b> Double tap bushing, zinc plated stainless steel: for use with Panther® HP W/ pressure relief                                         |                                                                 |                                                                                      | <b>4411-015</b> Inlet Check Valve 1" NPT(F)                                              |
|                                                                                                                                   |                                                                                                   | <b>4411-022</b> Bung adapter: LYNX® 3:1 & LYNX® 5:1                                                                                                   | <b>HP BALL VALVE</b>                                            |                                                                                      |                                                                                          |
|                                                                                                                                   |                                                                                                   | <b>4411-021</b> Bung adapter: LYNX®: 1:1 SS, LYNX® 5:1 HD, Lion 450/600 Grease and 1 1/2" suction tube                                                | Ball valve fully ported                                         |    | <b>3230-023</b> Ball valve, 3/8", 7,250 psi (500 bar)                                    |
|                                                                                                                                   |                                                                                                  | <b>4411-051</b> Bung adapter: Lion™ 350 5:1                                                                                                           |                                                                 |                                                                                      | <b>3230-015</b> Ball valve, 1/2", 7,250 psi (500 bar)                                    |
|                                                                                                                                   |                                                                                                  | <b>4411-032</b> Bung Adapter: Lion™ 450 10:1                                                                                                          |                                                                 |                                                                                      | <b>3230-016</b> Ball valve, 3/4", 5,800 psi (400 bar)                                    |
|                                                                                                                                   |                                                                                                 | <b>4411-012</b> Bung adapter kit: for use with 1" OD suction tube                                                                                     |                                                                 |                                                                                      | <b>3230-017</b> Ball valve, 1", 5,075 psi (350 bar)                                      |
|                                                | <b>4411-024</b> PVC adapter w/ 2" fill port with pressure relief discharge port for use when no additional ports are not available on the tank for pressure relief discharge tube. | <b>MP BALL VALVES WITH OIL/AIR</b>                                                                                                                    |                                                                 |                                                                                      |                                                                                          |
| Couplers, strainers<br>Y-Strainer - for filtering debris at the pump - 580 psi (40 bar) - all strainers have 40 mesh.             |                                                                                                 | <b>3120-211</b> 1/2" NPT(F)                                                                                                                           | Ball valve fully ported no bleed                                |  | <b>3230-006</b> Ball valve, 3/8", 2,000 psi (138 bar)                                    |
|                                                                                                                                   |                                                                                                                                                                                    | <b>3120-212</b> 3/4" NPT(F)                                                                                                                           |                                                                 |                                                                                      | <b>3230-002</b> Ball valve, 1/2", 2,000 psi (138 bar)                                    |
|                                                                                                                                   |                                                                                                                                                                                    | <b>3120-213</b> 1" NPT(F)                                                                                                                             |                                                                 |                                                                                      | <b>3230-007</b> Ball valve, 3/4", 2,000 psi (138 bar)                                    |
| Ensure that all hose fittings and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x safety factor. |                                                                                                                                                                                    | <b>3230-018</b> Ball valve, 1/4", 580 psi (40 bar)                                                                                                    |                                                                 |                                                                                      |                                                                                          |
| In-line pressure relief                                                                                                           |                                                                                                 | <b>3120-085</b> Pressure relief kit, 1/2" NPT(M) 850 psi for use with Panther® 3:1 and 5:1                                                            |                                                                 |                                                                                      | <b>3230-019</b> Ball valve, 3/8", 580 psi (40 bar)                                       |
|                                                                                                                                   |                                                                                                                                                                                    | <b>3120-086</b> Pressure relief kit, 3/4" NPT(M) 850 psi for use with LYNX® 1:1, 3:1                                                                  |                                                                 |                                                                                      | <b>3230-020</b> Ball valve, 1/2", 580 psi (40 bar)                                       |
|                                                                                                                                   |                                                                                                                                                                                    | <b>3120-087</b> Pressure relief kit, 3/4" NPT(M) 1400 psi                                                                                             |                                                                 |                                                                                      | <b>3230-021</b> Ball valve, 3/4", 580 psi (40 bar)                                       |
| Pressure relief valves                                                                                                            |                                                                                                 | <b>3120-214</b> Kit, PR valve 1/4" npt(m) 850 psi for use with Lion™ 450 3:1, 6:1 and Lion™ 600 6:1, kit includes return tube and 1/8" NPT(M) adapter |                                                                 |                                                                                      | <b>LP AIR BLEED TYPE</b>                                                                 |
|                                                                                                                                   |                                                                                                                                                                                    | <b>3120-215</b> Kit, PR valve 1/4" BSPP 1,450 psi for use with Lion™ 450 10:1 and Lion™ 600 12:1, kit includes return tube and 1/8" NPT(M) adapter    | Shut-off valve bleed type for air                               |  | <b>3230-009</b> Shut-off valve, 3/8" NPT(F), 200 psi (13.7 bar)                          |
|                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                       |                                                                 | <b>3230-010</b> Shut-off valve, 1/2" NPT(F), 200 psi (13.7 bar)                      |                                                                                          |
|                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                       |                                                                 | <b>3230-011</b> Shut-off valve, 3/4" NPT(F), 200 psi (13.7 bar)                      |                                                                                          |



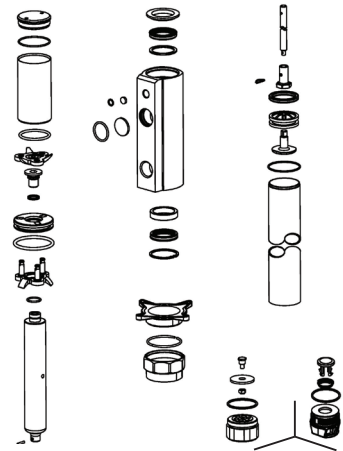
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| COUPLERS & NIPPLES            |                              |                                                                | COVERS & CARTS                   |                                                                           |                                                                                                                                        |                                                                |
|-------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Balcrank Series               |                              | 3270-003 Coupler, 1/4" NPT(F)                                  | Covers for 25-35 lb / 5 gal pail |                                                                           | 4420-010 25-35 lb/5 gal (for use with 2" bung stub pumps)                                                                              |                                                                |
|                               |                              | 3270-120 Coupler, 3/8" NPT(F)                                  |                                  |                                                                           | 4420-011 120 lb/16 gal (LYNX® for use with 2" bung stub pumps)                                                                         |                                                                |
|                               |                              | 3270-119 Coupler, 1/4" NPT(M)                                  | Covers for 120 lb / 16 gal drum  |                                                                           | 4420-005 120 lb/16 gal (Panther® HP, Tiger®)                                                                                           |                                                                |
|                               |                              | 3270-121 Coupler, 3/8" NPT(M)                                  |                                  |                                                                           | 4420-014 120 lb/16 gal (Lion™ 450/600). Ask for flange mount kit 7120-026                                                              |                                                                |
|                               | 3270-005 Nipple, 1/4" NPT(F) | Covers for 400 lb / 55 gal drum                                |                                  | 4420-013 400 lb/55 gal (Lion™ 450/600). Ask for flange mount kit 7120-026 |                                                                                                                                        |                                                                |
|                               | 3270-122 Nipple, 3/8" NPT(F) |                                                                |                                  | Dollies                                                                   |                                                                                                                                        | 4310-001 Band dolly, 16 gal/120 lb                             |
|                               | 3270-004 Nipple, 1/4" NPT(M) |                                                                |                                  |                                                                           |                                                                                                                                        | 4310-003 Band dolly, 16 gal/120 lb wide track                  |
|                               | 3270-123 Nipple, 3/8" NPT(M) |                                                                |                                  |                                                                           |                                                                                                                                        | 4310-004 Dolly, 55 gal/400 lb HD                               |
| INDUSTRIAL INTERCHANGE SERIES |                              |                                                                |                                  |                                                                           |                                                                                                                                        |                                                                |
| Industrial Interchange Series |                              | 3270-132 Coupler, air 3/8" body, 1/2" NPT(F)                   | Carts                            |                                                                           | 4320-010 4 Wheel drum cart: 120 lb/16 gal                                                                                              |                                                                |
|                               |                              | 3270-133 Coupler, air 3/8" body, 1/2" NPT(M)                   |                                  |                                                                           | 4320-013 3 Wheel drum cart: 400 lb/55 gal                                                                                              |                                                                |
|                               |                              | 3270-142 Nipple, air 3/8" body, 1/2" NPT(F)                    |                                  |                                                                           | 4320-014 Heavy duty drum cart: 400 lb/55 gal, 3 wheels with rear locking caster (to mount hose reel, use 2230-036 hose reel mount kit) |                                                                |
|                               |                              | 3270-143 Nipple, air 3/8" body, 1/2" NPT(M)                    |                                  |                                                                           |                                                                                                                                        | 2230-036 Hose reel mount kit for 4320-014 Heavy duty drum cart |
| MOUNTING BRACKETS             |                              |                                                                |                                  |                                                                           |                                                                                                                                        |                                                                |
| Mounting brackets             |                              | 4411-008 Wall mount bracket for LYNX®, Panther® HP, and Tiger® | Hose reel mount kit              |                                                                           | 2230-036 Hose reel mount kit for 4320-014 Heavy duty drum cart                                                                         |                                                                |
|                               |                              | 4411-030 Wall mount for new style Lion™ 450/600                |                                  |                                                                           |                                                                                                                                        |                                                                |

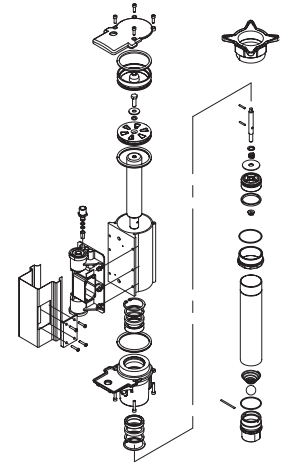
| SUCTION TUBES                                                            |                                                                    |  |                                                                  |                                                                            |  |
|--------------------------------------------------------------------------|--------------------------------------------------------------------|--|------------------------------------------------------------------|----------------------------------------------------------------------------|--|
| LYNX® 1:1, LYNX® 5:1 HD, PANTHER® 3:1 & 5:1, TIGER 6:1 HP                |                                                                    |  | 4412-049 1" NPT(M) x 32" - 30° 275 gal tote                      | 4412-042 3/4" NPT(M) x 42" - 30° 275/330 gal horizontal obround double tap |  |
| 4412-044 1" NPT(M) x 18" - 30° 16 gal drum                               | 4412-050 1" NPT(M) x 39" - 30° 330 gal tote                        |  | 4412-043 3/4" NPT(M) x 60" - 30° 330 gal vertical obround        | 4412-040 3/4" NPT(M) x 32" - 30° 275 gal tote                              |  |
| 4412-046 1" NPT(M) x 26" - 30° 55 gal drum                               | LYNX® 3:1                                                          |  |                                                                  | 4412-041 3/4" NPT(M) x 39" - 30° 330 gal tote                              |  |
| 4412-045 1" NPT(M) x 21" - 30° 165/280 gal bench tank                    | 4412-035 3/4" NPT(M) x 18" - 30° 16 gal drum                       |  | LION™ 450/600                                                    |                                                                            |  |
| 4412-048 1" NPT(M) x 30" - 30° 165/280 gal bench tank double tap         | 4412-037 3/4" NPT(M) x 26" - 30° 55 gal drum                       |  | 4412-031 1 1/2" NPT(M) x 38" - 30° 55 gal drum & bench tank      | 4412-032 1 1/2" NPT(M) x 47" - 30° horizontal obround tank                 |  |
| 4412-047 1" NPT(M) x 28" - 30° 250 gal bench tank double tap             | 4412-036 3/4" NPT(M) x 21" - 30° 165/280 gal bench tank            |  | 4412-033 1 1/2" NPT(M) x 63" - 30° 275 gal vertical obround tank | 4412-034 1 1/2" NPT(M) x 75" - 30° 330 gal vertical obround tank           |  |
| 4412-051 1" NPT(M) x 42" - 30° 275/330 gal horizontal obround double tap | 4412-039 3/4" NPT(M) x 30" - 30° 165/280 gal bench tank double tap |  |                                                                  |                                                                            |  |
| 4412-052 1" NPT(M) x 60" - 30° 330 gal vertical obround                  | 4412-038 3/4" NPT(M) x 28" - 30° 250 gal bench tank double tap     |  |                                                                  |                                                                            |  |

# Piston Pump Repair Kits for Oil

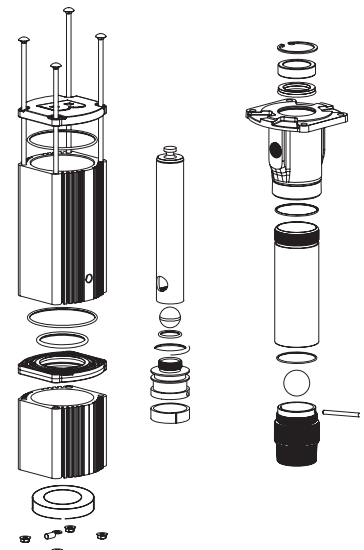
| LYNX® 1:1 & 3:1                                              |               |                |
|--------------------------------------------------------------|---------------|----------------|
| PUMP MODELS                                                  | KIT NUMBER    | DESCRIPTION    |
| <b>LYNX® SERIES PUMPS 1:1 - 1110-010, 1110-009, 1160-008</b> |               |                |
| 1110-009 & 1110-010 Fluid                                    | <b>833109</b> | Fluid seal kit |
| 1110-009, 1110-010, 1110-007                                 | <b>833110</b> | Air valve kit  |
| 1160-008                                                     | <b>833525</b> | Fluid seal kit |
| <b>LYNX® SERIES PUMP 2:1 - 1111-035</b>                      |               |                |
| 1111-035                                                     | <b>833346</b> | Air filter kit |
|                                                              | <b>833110</b> | Air valve kit  |
|                                                              | <b>833111</b> | Fluid seal kit |
| <b>LYNX® SERIES PUMPS 3:1 - 1110-007</b>                     |               |                |
| 1110-007                                                     | <b>833111</b> | Fluid seal kit |
| 1110-007                                                     | <b>833110</b> | Air valve kit  |



| LYNX® 5:1 HD                                |               |                         |
|---------------------------------------------|---------------|-------------------------|
| PUMP MODELS                                 | KIT NUMBER    | DESCRIPTION             |
| <b>LYNX® SERIES PUMPS 5:1 HD - 1110-012</b> |               |                         |
| 1110-012                                    | <b>833437</b> | Fluid seal kit          |
| 1110-012                                    | <b>833438</b> | Air motor, complete kit |
| 1110-012                                    | <b>833439</b> | Pump tube, repair kit   |
| 1110-012                                    | <b>833440</b> | Fluid piston kit        |



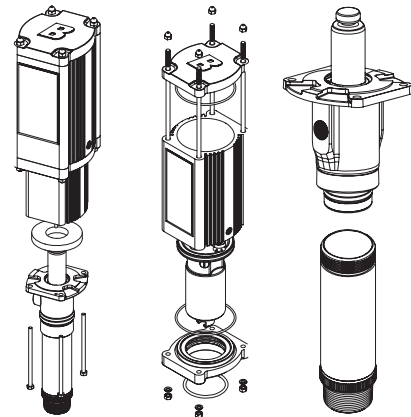
| PANTHER® HP 3:1 & 5:1                                                                                       |                |                                         |
|-------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------|
| PUMP MODELS                                                                                                 | KIT NUMBER     | DESCRIPTION                             |
| <b>PANTHER® HP SERIES PUMPS 3:1 - 1130-015, 1130-017, 1130-020 &amp; 5:1 - 1130-016, 1130-018, 1130-021</b> |                |                                         |
| Panther® HP Series Pumps - All                                                                              | <b>900019</b>  | Air motor kit - Trip Rod Assembly       |
| Panther® HP Series Pumps - All                                                                              | <b>900031</b>  | Air motor kit - SOFT parts only         |
| Panther® HP Series Pumps - All                                                                              | <b>831614</b>  | Air motor assembly kit- Includes Piston |
| Panther® HP Series Pumps - All oil                                                                          | <b>831613</b>  | Air - complete assembly                 |
| 1130-015, 1130-017 & 1130-020                                                                               | <b>900020</b>  | Fluid seal kit                          |
| 1130-016, 1130-018 & 1130-021                                                                               | <b>900021</b>  | Fluid seal kit                          |
| 1130-015, 1130-017 & 1130-020                                                                               | <b>831612N</b> | Fluid - complete assembly               |
| 1130-016, 1130-018 & 1130-021                                                                               | <b>831615N</b> | Fluid - complete assembly               |



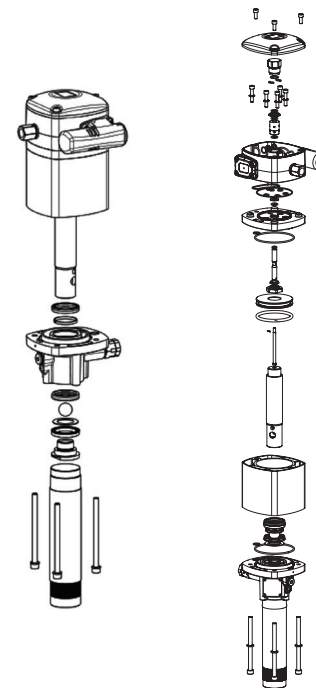
# Piston Pump Repair Kits for Oil

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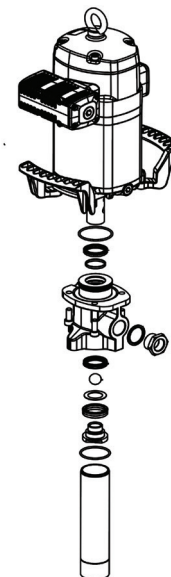
| TIGER 6:1                                                              |                |                                   |
|------------------------------------------------------------------------|----------------|-----------------------------------|
| PUMP MODELS                                                            | KIT NUMBER     | DESCRIPTION                       |
| <b>TIGER SERIES PUMPS 6:1 - 1130-019, 1130-025, 1130-026, 1160-007</b> |                |                                   |
| Tiger HP Series Pumps - All                                            | <b>900027</b>  | Air motor kit - Trip Rod Assembly |
| Tiger HP Series Pumps - All                                            | <b>900028</b>  | Air motor kit - SOFT parts only   |
| Tiger HP Series Pumps - All                                            | <b>831671</b>  | Air - complete assembly           |
| 1130-019, 1130-025 & 1130-026                                          | <b>900020</b>  | Fluid seal kit                    |
| 1160-007                                                               | <b>828070</b>  | Fluid seal kit (Stainless Steel)  |
| 1130-019, 1130-025 & 1130-026                                          | <b>831672N</b> | Fluid - complete assembly         |



| LION™ 350                                    |               |                 |
|----------------------------------------------|---------------|-----------------|
| PUMP MODELS                                  | KIT NUMBER    | DESCRIPTION     |
| <b>LION™ 350 SERIES PUMPS 5:1 - 1430-012</b> |               |                 |
| 1430-012                                     | <b>833813</b> | Air motor kit   |
| 1430-012                                     | <b>833815</b> | Spool kit       |
| 1430-012                                     | <b>833877</b> | Air exhaust kit |
| 1430-012                                     | <b>833878</b> | Lower seals kit |
| 1430-012                                     | <b>833879</b> | Lower valve kit |

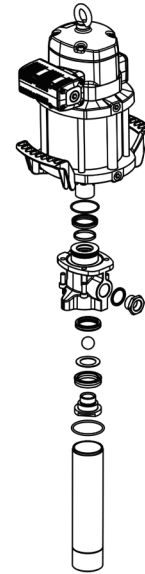


| LION™ 450                                                                             |               |                                   |
|---------------------------------------------------------------------------------------|---------------|-----------------------------------|
| PUMP MODELS                                                                           | KIT NUMBER    | DESCRIPTION                       |
| <b>LION™ 450 SERIES PUMPS 3:1 - 1430-001, 6:1 1430-002, 10:1 - 1430-003, 1430-004</b> |               |                                   |
| 1430-001, 1430-002, 1430-003, 1430-004                                                | <b>833412</b> | Air motor seals kit               |
| 1430-001, 1430-002, 1430-003, 1430-004                                                | <b>833413</b> | Exhaust muffler kit               |
| 1430-001, 1430-002, 1430-003, 1430-004                                                | <b>833414</b> | Spools & seals kit                |
| 1430-001                                                                              | <b>833509</b> | Inlet Check Valve - Poly kit 3:1  |
| 1430-002                                                                              | <b>833510</b> | Inlet Check Valve - Poly kit 6:1  |
| 1430-001                                                                              | <b>833512</b> | Lower seals kit 3:1               |
| 1430-002                                                                              | <b>833513</b> | Lower seals kit 6:1               |
| 1430-003, 1430-004                                                                    | <b>833600</b> | Inlet Check Valve - Poly kit 10:1 |
| 1430-003, 1430-004                                                                    | <b>833603</b> | Lower seals kit 10:1              |
| 1430-003, 1430-004                                                                    | <b>833604</b> | Suction tube kit 10:1             |



# Piston Pump Repair Kits for Oil

| LION™ 600                                              |               |                                   |
|--------------------------------------------------------|---------------|-----------------------------------|
| PUMP MODELS                                            | KIT NUMBERS   | DESCRIPTION                       |
| LION™ 600 SERIES PUMPS 6:1 - 1430-005, 12:1 - 1430-006 |               |                                   |
| 1430-005, 1430-006                                     | <b>833413</b> | Exhaust muffler kit               |
| 1430-005, 1430-006                                     | <b>833414</b> | Spools & seals kit                |
| 1430-005                                               | <b>833509</b> | Inlet Check Valve - Poly kit 6:1  |
| 1430-006                                               | <b>833510</b> | Inlet Check Valve - Poly kit 12:1 |
| 1430-005, 1430-006                                     | <b>833511</b> | Air motor seals kit               |
| 1430-005                                               | <b>833512</b> | Lower seals kit 6:1<br>1430-006   |
| 1430-006                                               | <b>833513</b> | Lower seals kit 12:1              |



# Grease Piston Pumps Product Selection Matrix

1

| MAX. SIMUL. DISPENSE POINTS | MAX. LINE LENGTH | MAX. - FREE FLOW         | AIR INLET | FLUID OUTLET | RECOMMENDED FLUID TYPES                   |
|-----------------------------|------------------|--------------------------|-----------|--------------|-------------------------------------------|
| <b>LYNX® 55:1</b>           |                  |                          |           |              |                                           |
| 1                           | 50' (50 m)       | 1.2 lb/min (0.5 kg/min)  | 1/4" NPT  | 1/4" NPT     | Up to NLGI-2 grease                       |
| <b>PANTHER® 50:1</b>        |                  |                          |           |              |                                           |
| 1-2*                        | 100' (30 m)      | 3.4 lb/min (1.54 kg/min) | 1/4" NPT  | 1/4" NPT     | Up to NLGI-2 grease                       |
| <b>LION™ 350 60:1</b>       |                  |                          |           |              |                                           |
| 1-2                         | 250' (75 m)      | 4.4lb/min (2 kg/min)     | 3/8" NPT  | 3/8" NPT     | Up to NLGI-2 grease                       |
| <b>LION™ 450 25:1</b>       |                  |                          |           |              |                                           |
| 1                           | 250' (75 m)      | 35 lb/min (16 kg/min)    | 1/2" NPT  | 1/2" NPT     | Up to NLGI-2 grease<br>High viscosity oil |
| <b>LION™ 450 40:1</b>       |                  |                          |           |              |                                           |
| 4                           | 400' (120 m)     | 24 lb/min (11 kg/min)    | 1/2" NPT  | 1/2" NPT     | Up to NLGI-2 grease                       |
| <b>LION™ 450 70:1</b>       |                  |                          |           |              |                                           |
| 4                           | 600' (180 m)     | 16 lb/min (7.25 kg/min)  | 1/2" NPT  | 1/2" NPT     | Up to NLGI-2 grease                       |
| <b>LION™ 600 12:1</b>       |                  |                          |           |              |                                           |
| 1                           | 30' (10 m)       | 88 lb/min (40 kg/min)    | 1/2" NPT  | 1" NPT       | Up to NLGI-2 grease                       |
| <b>LION™ 600 80:1</b>       |                  |                          |           |              |                                           |
| 4                           | 800' (240m)      | 18 lb/min (8 kg/min)     | 1/2" NPT  | 1/2" NPT     | Up to NLGI-2 grease                       |

Pump performance is predicated on viscosity (temperature), pumping distance, pipe diameter and dispense volume requirements. Contact Balcrank for system design assistance and technical data.

Always ensure hoses, fittings, and piping are rated for fluid outlet pressures. Balcrank recommends a minimum of 3x the safety factor.

Grease viscosity above NLGI-2 requires use of double post RAM on pg. 54. Contact Balcrank for product recommendations.



**LYNX® SERIES**



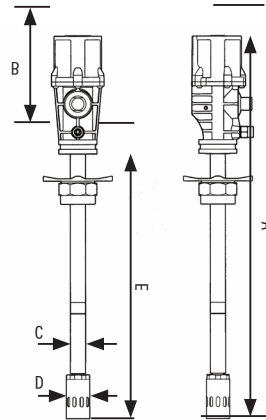
**PANTHER® SERIES**



**LION™ SERIES**

# Grease Piston Pumps LYNX® 55:1 Pumps

## Grease up to NLGI-2



| Dimensions inches (MM) |                |               |                  |                    |
|------------------------|----------------|---------------|------------------|--------------------|
| 1150-022               |                |               |                  |                    |
| A                      | B              | C             | D                | E                  |
| 24.40"<br>(620 mm)     | 8"<br>(202 mm) | 1"<br>(26 mm) | 1.56"<br>(40 mm) | 16.5"<br>(418 mm)  |
| 1150-023               |                |               |                  |                    |
| 36.62" (930 mm)        | 8"<br>(202 mm) | 1"<br>(26 mm) | 1.56"<br>(40 mm) | 28.65"<br>(728 mm) |
| 1150-024               |                |               |                  |                    |
| 44.12"<br>(1120 mm)    | 8"<br>(202 mm) | 1"<br>(26 mm) | 1.56"<br>(40 mm) | 36.14"<br>(918 mm) |

Designed for 25-35, 120, and 400 lb. drums, portable use, and single point dispense. Ideal for the low volume user for grease fittings on smaller vehicles. LYNX® grease pumps are double acting positive displacement capable of delivering up to 1.2 lbs. (.54 kg) per minute.

### Applications

- Roll-around unit for small vehicle grease points
- Agriculture/farm implements
- Small auto/truck shops
- Tire & transmission shops
- In-plant low volume use

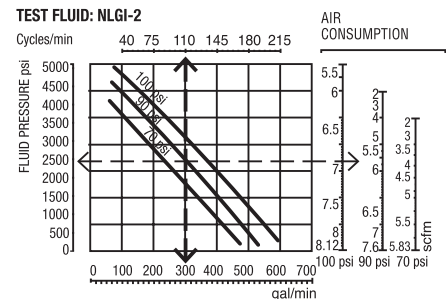
### TECHNICAL DATA

|                                                           |                                                |
|-----------------------------------------------------------|------------------------------------------------|
| Pump ratio                                                | 55:1                                           |
| Continuous duty free flow                                 | 7 lbs/min                                      |
| Cycles per lb @ 100 psi (7 bar) free flow                 | 318                                            |
| Pump delivery, 100 psi (7 bar) air pressure and free flow | 0.70 lb/min (0.32 kg/min)                      |
| Operating air pressure range                              | 20-140 psi (1.5-10 bar)                        |
| Max fluid stall pressure @ 140 psi (10 bar) air           | 7,700 psi (550 bar)                            |
| Effective Air Piston Diameter                             | 2.75" (70 mm)                                  |
| Air motor stroke                                          | 1.5" (38 mm)                                   |
| Air consumption<br>90 psi (6 bar) & 110 cycles per minute | 5.8 SCFM                                       |
| Air inlet                                                 | 1/4" NPT(F)                                    |
| Fluid outlet                                              | 1/4" NPT(F)                                    |
| Wetted materials                                          | Steel, Zinc, Aluminum, Buna-N™, PTFE (Teflon™) |
| Noise                                                     | 92 dB                                          |
| Service Bulletin                                          | SB 1116                                        |

**Warning!** Do not use any LYNX® series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.  
Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

| MODELS AVAILABLE | DESCRIPTION                 |
|------------------|-----------------------------|
| <b>1150-022</b>  | LYNX® 55:1 Grease 25-35 lbs |
| <b>1150-023</b>  | LYNX® 55:1 Grease 120 lbs   |
| <b>1150-024</b>  | LYNX® 55:1 Grease 400 lbs   |



# Grease Piston Pumps

## LYNX® 55:1 Pump Packages

1



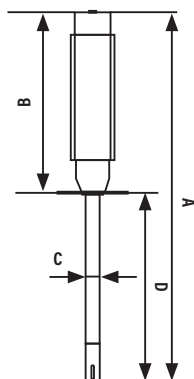
| LYNX® 55:1 PACKAGES        | 25-35 LB<br>STATIONARY<br>1151-034 | 120 LB<br>PORTABLE<br>1151-028 | 120 LB<br>PORTABLE<br>1151-035 |
|----------------------------|------------------------------------|--------------------------------|--------------------------------|
| Bare Pump                  | 1150-022                           | 1150-023                       | 1150-023                       |
| Bung Adapter               | 4411-023                           | 4411-023                       | 4411-023                       |
| Fluid Hose 10' x 3/8"      | 8331-010                           | 8665-010                       | 8331-010                       |
| F/R Auto Drain 1/4" NPT(F) | 3260-033                           | 3260-033                       | 3260-033                       |
| Comfort Grip Grease Handle | 3310-030                           | 3310-030                       | 3310-030                       |
| Drum Cover                 | 4420-010 <sup>(1)</sup>            | 4420-011                       | 4420-011                       |
| Follower Plate             | 4440-013                           | 4440-014                       | 4440-014                       |

(1) includes carrying handle



| LYNX® 55:1 PACKAGES        | 400 LB<br>PORTABLE<br>1151-036 |
|----------------------------|--------------------------------|
| Bare Pump                  | 1150-024                       |
| Bung Adapter               | 4411-023                       |
| Fluid Hose 10' x 3/8"      | 8331-010                       |
| F/R Auto Drain 1/4" NPT(F) | 3260-033                       |
| Comfort Grip Grease Handle | 3310-030                       |
| Drum Cover                 | 4420-015                       |
| Follower Plate             | 4440-018                       |
| Cart                       | 4320-013                       |

# Grease Piston Pumps Panther® HP 50:1 Pumps



| Dimensions inches (MM) |                    |                     |                 |
|------------------------|--------------------|---------------------|-----------------|
| 1150-009               |                    |                     |                 |
| A                      | B                  | C                   | D               |
| 36.75"<br>(933 mm)     | 18.75"<br>(476 mm) | 1.25"<br>(31.75 mm) | 18"<br>(457 mm) |
| 1150-010               |                    |                     |                 |
| 46.75"<br>(1187 mm)    | 18.75"<br>(476 mm) | 1.25"<br>(31.75 mm) | 28"<br>(711 mm) |
| 1150-011               |                    |                     |                 |
| 52.75"<br>(1340 mm)    | 18.75"<br>(476 mm) | 1.25"<br>(31.75 mm) | 34"<br>(834 mm) |

| TECHNICAL DATA                                                                         |                                                                                   |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Pump ratio                                                                             | 50:1                                                                              |
| Continuous duty free flow                                                              | 2 lb/min                                                                          |
| Cycles per lb @ 100 psi (7 bar) free flow                                              | 70                                                                                |
| Pump delivery with NLGI-2, 75° F (23.8° C), 100 psi (7 bar) air pressure and free flow | 3.4 lb/min (1.54 kg/min)                                                          |
| Operating air pressure range                                                           | 40-150 psi (2.8-10 bar)                                                           |
| Max fluid stall pressure @ 150 psi (10 bar) air                                        | 7500 psi (517 bar)                                                                |
| Effective Air Piston Diameter                                                          | 2 1/2" (63.5 mm)                                                                  |
| Air motor stroke                                                                       | 3.25" (83 mm)                                                                     |
| Air consumption<br>100 psi (7 bar) & 1.5 lb/min (.68 kg/min)                           | 14.5 SCFM                                                                         |
| Air inlet                                                                              | 1/4" NPT(F)                                                                       |
| Fluid outlet                                                                           | 1/4" NPT(F)                                                                       |
| Wetted materials                                                                       | Stainless Steel, Carbon Steel, Brass, Aluminum, Delrin®, Ultrathane®, and Buna-N™ |
| Noise                                                                                  | 92 dB                                                                             |
| Service Bulletin                                                                       | SB 1063                                                                           |

NOTE: Pumping distance and pipe diameter will effect dispensing performance.

**Warning!** Do not use any Pride series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

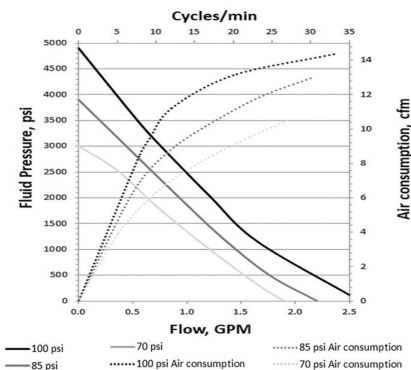
## Grease up to NLGI-2

Designed for lower volume users up to 2 dispense points. Designed for 25-35, 120, and 400 lb. drums. Ideal for lower volume grease fittings on trucks and farm implements. Panther® pump is a double acting positive displacement capable of delivering up to 3.4 lbs. (1.54 kg) per minute.

### Applications

- Roll-around unit for small vehicle grease points
- Agriculture/farm implements
- Small auto/truck shops
- Tire & transmission shops
- In-plant low volume use

| MODELS AVAILABLE | DESCRIPTION                     |
|------------------|---------------------------------|
| <b>1150-009</b>  | Panther® HP 50:1 bare 25-35 lbs |
| <b>1150-010</b>  | Panther® HP 50:1 bare 120 lbs   |
| <b>1150-011</b>  | Panther® HP 50:1 bare 400 lbs   |



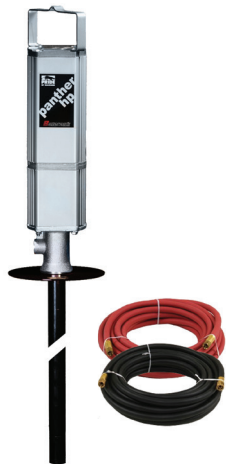
# Grease Piston Pumps Panther® HP 50:1 Pump Packages

1



| PANTHER® HP 50:1 PACKAGES  | 25-35 LB STATIONARY 1151-003 | 120 LB STATIONARY 1151-004 | 120 LB PORTABLE 1151-005 | 400 LB STATIONARY 1151-006 |
|----------------------------|------------------------------|----------------------------|--------------------------|----------------------------|
| Bare Pump                  | 1150-009                     | 1150-010                   | 1150-010                 | 1150-011                   |
| Air hose 5' x 3/8"         | 8132-005                     | 8132-005                   | 8132-005                 | 8132-005                   |
| Fluid Hose 10' x 3/8"      | 8331-010                     | 8331-010                   | 8331-010                 | 8331-010                   |
| Comfort Grip Grease Handle | 3310-030                     | -                          | 3310-030                 | -                          |
| Air Coupler 1/4"           | 3270-003                     | 3270-003                   | 3270-003                 | 3270-003                   |
| Air Nipple 1/4"            | 3270-004                     | 3270-004                   | 3270-004                 | 3270-004                   |
| Drum Cover                 | 4420-008                     | 4420-009                   | 4420-009                 | 4420-004                   |
| Follower Plate             | 4440-007                     | 4440-008                   | 4440-008                 | 4440-009                   |
| Dolly Base, 120 lb/ 16 gal | -                            | -                          | 4310-001                 | -                          |
| OPTIONAL ACCESSORIES       |                              |                            |                          |                            |
| Cart                       | 4320-011                     | 4320-012                   | --                       | 4320-013                   |
| Dolly                      | 4310-005                     | 4310-001                   | --                       | 4310-004                   |

Note: Pump packages include all hoses and adapters required for connecting a grease pump to the air supply and dispense line.





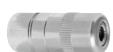














| PANTHER® HP 50:1 MOBILE PACKAGES | 120 LB 7120-015 | 400 LB 7120-016 |
|----------------------------------|-----------------|-----------------|
| Bare Pump                        | 1150-010        | 1150-011        |
| Fluid Hose                       | 8331-010        | 8331-010        |
| Flange mount kit                 | 7120-026        | 7120-026        |
| Hold down kit                    | 7120-025        | 7120-024        |
| Drum Cover                       | 4420-014        | 4420-013        |
| Follower Plate                   | 4440-008        | 4440-009        |

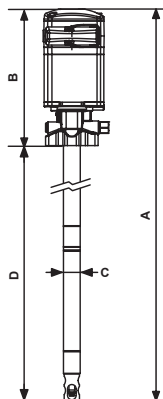
Note: Pump packages include all hoses and adapters required for connecting a grease pump to the air supply and dispense line.

# Grease Piston Pumps

## Panther® HP 50:1 Pump Components

|                           |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                           |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Grease handle accessories |                                                                                                                                                                                                | <b>8390-002</b> 18" Whip Hose HP Flexible Extension<br><b>8390-003</b> 36" Whip Hose HP Flexible Extension<br><b>8390-004</b> 42" Whip hose HP flexible extension<br>Max. pressure 5,000 psi (345 bar). Hose end 1/8" NPT(M) on both ends. Compatible fluid NLGI-2 Grease | Dollies             | <br>4310-001<br><br><br>4310-004                                                                                                                                                                                                                  | <b>4310-005</b> Dolly Base, 5 gal/25 - 35 lb                                                                                                    |
|                           |                                                                                                                                                                                                                                                                                 | <b>5310-018</b> Z-Swivel 1/4" NPT(F) x 1/4" NPT(M)                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>4310-001</b> Band Dolly, 16 gal/120 lb<br><br><b>4310-003</b> Dolly, 16 gal/120 lb wide track<br><br><b>4310-004</b> Dolly, 55 gal/400 lb HD |
|                           | <br>3310-030<br><br><br><br> | <b>3310-030</b> Comfort Grip Grease Handle                                                                                                                                                                                                                                | Carts               | <br>4320-011<br><br><br>4320-012<br><br><br>4320-013<br><br><br>4320-014 | <b>4320-011</b> Drum cart: 35 lb grease, 2 wheels. Fits both the 35 lb pail and 120 lb drum                                                     |
|                           |                                                                                                                                                                                                                                                                                 | <b>3310-031</b> Comfort Grip Grease Handle with 18" Whip Hose and Z-swivel                                                                                                                                                                                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>4320-012</b> Drum cart: 120 lb/16 gal grease, 2 rear wheels. Front stabilizing rubber pads.                                                  |
|                           |                                                                                                                                                                                                                                                                                 | <b>3310-032</b> Comfort Grip Grease Handle with 36" Whip Hose and Z-swivel                                                                                                                                                                                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>4320-013</b> 3 Wheel drum cart: 400 lb/55 gal                                                                                                |
|                           |                                                                                                                                                                                                                                                                                 | <b>5310-024</b> Grease coupler 4-Jaws                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>4320-014</b> Drum cart: 400 lb/55gal heavy duty, 3 wheels with rear locking caster (to mount hose reel, use 2230-036 hose reel mount kit)    |
| Drum Covers               |                                                                                                                                                                                               | <b>4420-008</b> 25-35 lb Pail Panther® HP 50:1                                                                                                                                                                                                                            | Hose reel mount kit | <br>2230-036                                                                                                                                                                                                                                                                                                                      | <b>2230-036</b> Hose reel mount kit for 4320-014 Heavy duty drum cart                                                                           |
|                           |                                                                                                                                                                                              | <b>4420-009</b> 120 lb Panther® HP 50:1                                                                                                                                                                                                                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |
|                           |                                                                                                                                                                                              | <b>4420-004</b> 400 lb for Panther® 50:1                                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |
| Follower plates           |                                                                                                                                                                                              | <b>4440-007</b> 25-35 lb pail for Panther® HP 50:1                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |
|                           |                                                                                                                                                                                              | <b>4440-008</b> 120 lb for Panther® HP 50:1                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |
|                           |                                                                                                                                                                                              | <b>4440-009</b> 400 lb for Panther® HP 50:1                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |

# Grease Piston Pumps Lion™ 350 60:1 Pumps



| Dimensions inches (MM) |                    |                  |                   |
|------------------------|--------------------|------------------|-------------------|
| 1450-013               |                    |                  |                   |
| A                      | B                  | C                | D                 |
| 31.6"<br>(803 mm)      | 11.25"<br>(287 mm) | 1.66"<br>(35 mm) | 20.3"<br>(516 mm) |
| 1450-012               |                    |                  |                   |
| 40"<br>(1017 mm)       | 11.25"<br>(287 mm) | 1.66"<br>(35 mm) | 28.7"<br>(730 mm) |
| 1450-011               |                    |                  |                   |
| 47.7"<br>(1,212 mm)    | 11.25"<br>(287 mm) | 1.66"<br>(35 mm) | 36.4"<br>(925 mm) |

## Grease up to NLGI-2

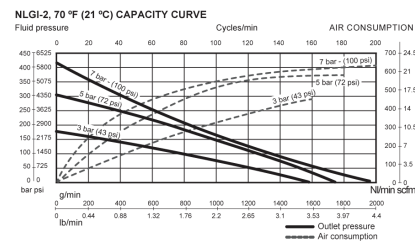
Designed for 35 lb, 120, and 400 lb. containers. Ideal for the users that need reliable grease delivery and medium length systems that have multiple dispense points. This Lion grease pump delivers up to 4.4 lb (2 kg) per minute.

### Applications

- Agriculture/farm implements
- Small auto/truck shops
- Tire & transmission shops
- In-plant medium volume use
- Mining and construction
- Truck fleets
- Railroad/Mass transit
- Lube trucks
- Marine

| TECHNICAL DATA                                                                                 |                                                                 |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Pump ratio                                                                                     | 60:1                                                            |
| Cycles per lb/min @ 100 psi (7 bar) free flow                                                  | 50                                                              |
| Operating air pressure range                                                                   | 20-145 psi (1.5-10 bar)                                         |
| Max pump delivery                                                                              | 4.4 lb/min (2 kg/min)                                           |
| Pump delivery with NLGI-2, 68° F (20° C), 70 psi (5 bar) air pressure and 80 cycles per minute | 1.1 lbs/min (500 g/min)                                         |
| Max fluid stall pressure                                                                       | 8,700 psi (600 bar)                                             |
| Air inlet                                                                                      | 3/8" NPT(F)                                                     |
| Fluid outlet                                                                                   | 3/8" NPT(F)                                                     |
| Effective Air Piston Diameter                                                                  | 3.15" (80 mm)                                                   |
| Wetted materials                                                                               | Cast Iron, Hard Chromed Steel, Steel, UHMWPE, NBR, PTFE, Viton® |
| Service Bulletin                                                                               | SB 1153                                                         |

| MODELS AVAILABLE | DESCRIPTION                 |
|------------------|-----------------------------|
| <b>1450-013</b>  | Lion™ 60:1 Grease 25-35 lbs |
| <b>1450-012</b>  | Lion™ 60:1 Grease 120 lbs   |
| <b>1450-011</b>  | Lion™ 60:1 Grease 400 lbs   |



**Warning!** Do not use any Lion™ series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.  
Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

# Grease Piston Pumps

## Lion™ 350 60:1 Pump Packages

1



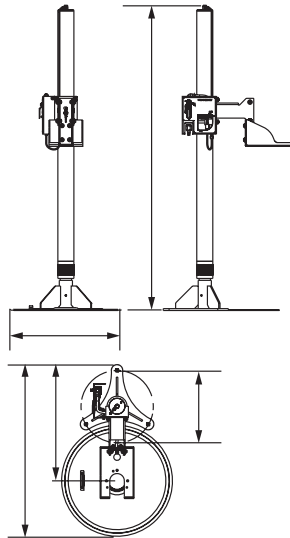
| LION™ 350 60:1 PACKAGES    | 120 LB PORTABLE 1151-038 | 400 LB PORTABLE 1151-039 | 400 LB STATIONARY 1151-043 |
|----------------------------|--------------------------|--------------------------|----------------------------|
| Bare Pump                  | 1450-012                 | 1450-011                 | 1450-011                   |
| Fluid Hose                 | 8321-016                 | 8321-020                 | 8333-010                   |
| Air Hose                   | -                        | -                        | 8134-005                   |
| F/R Auto Drain             | 3260-033                 | 3260-035                 | 3260-033                   |
| Comfort Grip Grease Handle | 3310-030                 | 3310-030                 | -                          |
| Drum Cover                 | 4420-011                 | 4420-015                 | 4420-015                   |
| Follower Plate             | 4440-014                 | 4440-018                 | 4440-018                   |
| Coupler                    | 3270-003                 | -                        | 3270-120                   |
| Nipple                     | 3270-004                 | -                        | 3270-123                   |
| Cart                       | -                        | 4320-013                 | -                          |
| Dolly                      | 4310-001                 | -                        | -                          |



| LION™ 350 60:1 MOBILE PACKAGES | 120 LB 1151-041 | 400 LB 1151-042 |
|--------------------------------|-----------------|-----------------|
| Bare Pump                      | 1450-012        | 1450-011        |
| Fluid Hose                     | 8134-003        | 8134-003        |
| Hold down kit                  | 7120-025        | 7120-024        |
| Drum Cover                     | 4420-014        | 4420-013        |
| Follower Plate                 | 4440-014        | 4420-018        |

# Grease Piston Pumps Lion™ 350 60:1 Inductor

1



| Dimensions inches (MM) |                                        |                    |                    |                 |
|------------------------|----------------------------------------|--------------------|--------------------|-----------------|
| A                      | B<br>Lowered/<br>Raised                | C                  | D                  | E               |
| 23.25"<br>(588 mm)     | 58"<br>(1470 mm)<br>94.5"<br>(2400 mm) | 35.75"<br>(910 mm) | 24.03"<br>(617 mm) | 15"<br>(381 mm) |

## Grease up to NLGI-2

Lion™ 350 60:1 grease pump is used with 120 and 400 lb drums. The air operated pump hoist lifts and lowers the pump, making drum changes easier, faster and safer. The pumps lower end is rigidly fixed to a follower plate with a single rubber lip. The weight of the pump, pump bracket and follower plate plus atmospheric pressure push the assembly against the grease eliminating channeling and air pockets, keeping grease free from contaminants, minimizing waste, and aiding pump priming.

### Applications

- Agriculture/farm implements
- Small auto/truck shops
- In-plant medium volume use
- Truck fleets
- Lube trucks
- Marine

May require air supply fitting 3270-055

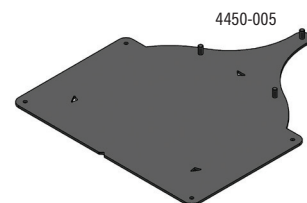
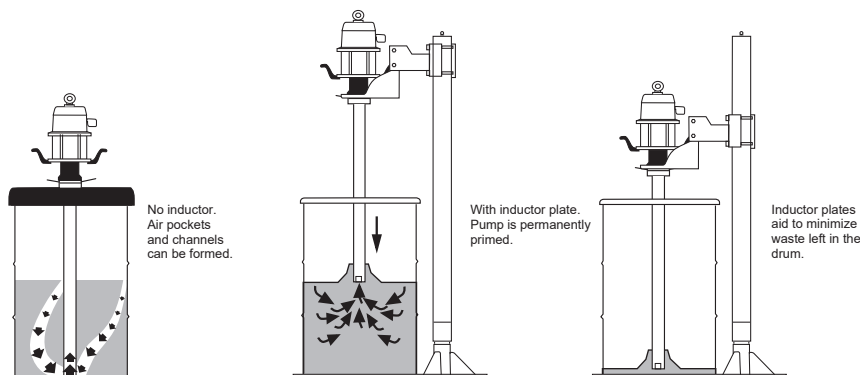
### TECHNICAL DATA

|                                    |                  |
|------------------------------------|------------------|
| Diameter of the pneumatic cylinder | 3" (75 mm)       |
| Stroke of the pneumatic cylinder   | 36.6" (930 mm)   |
| Minimum height of equipment        | 58" (1,470 mm)   |
| Maximum height of equipment        | 94.5" (2,400 mm) |
| Air inlet                          | 1/2" NPT(M)      |
| Maximum air pressure               | 116 psi (8 bar)  |
| Service Bulletin                   | SB 4228          |

Verify fluid compatibility with MSDS sheets.  
Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

### MODELS AVAILABLE DESCRIPTION





















|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>1451-009</b> | Package, Lion™ 350, 60:1 Inductor<br>Includes:<br>1450-012 Lion™ 60:1 Grease 120 lbs Inductor                             |
| <b>1451-008</b> | Lion™ 60:1 Grease 400 lbs Package, Lion™ 350, 60:1 Inductor<br>Includes:<br>1450-011 Lion™ 60:1 Grease 400 lbs & Inductor |
| <b>4450-006</b> | Hoist w/ Inductor Plate 120 lb<br>No Pump                                                                                 |
| <b>4450-007</b> | Hoist w/ Inductor Plate 400 lb<br>No Pump                                                                                 |
| <b>4450-005</b> | Base plate for pump hoist & inductor                                                                                      |



# Grease Piston Pumps

## Lion™ 350 60:1 Pump Components

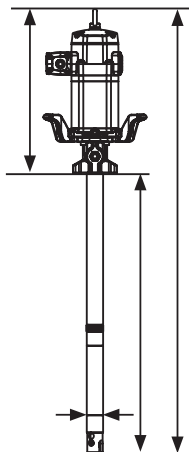
1

|                                                                                   |                                                                                     |                                                                                                                                                                                                                                             |                                                                                      |                                                                                                                                              |                                                                                                                                                                                                                            |                                                  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Grease handle accessories                                                         |    | <b>8390-002</b> 18" Whip Hose HP Flexible Extension<br><b>8390-003</b> 36" Whip Hose HP Flexible Extension<br><b>8390-004</b> 42" Whip hose HP flexible extension.<br>Max. pressure 5,000 psi (345 bar). Hose end 1/8" NPT(M) on both ends. | Connecting hose kit                                                                  |                                                            | <b>4410-069</b> Connecting Hose Kit for Lion™ 350 Grease:<br>8134-005 Hose Assembly, 5' X 3/8" LP<br>8333-010 Hose, HP 3/8 X 10<br>833764 Nipple, Quick-Air, 3/8" NPT(M)<br>833862 Coupler, Air, 1/4" Body Size, 3/8" NPTF |                                                  |
|                                                                                   |    | <b>5310-018</b> Z-Swivel 1/4" NPT(F) x 1/4" NPT(M)                                                                                                                                                                                          | Dollies                                                                              |                                                            | <b>4310-005</b> Dolly Base, 5 gal/25 - 35 lb                                                                                                                                                                               |                                                  |
|                                                                                   |    | <b>3310-030</b> Comfort Grip Grease Handle                                                                                                                                                                                                  |                                                                                      |                                                            |                                                                                                                                          | <b>4310-001</b> Band Dolly, 16 gal/120 lb        |
|                                                                                   |                                                                                     | <b>3310-031</b> Comfort Grip Grease Handle with 18" Whip Hose and Z-swivel                                                                                                                                                                  |                                                                                      |                                                                                                                                              |                                                                                                                                                                                                                            | <b>4310-003</b> Dolly, 16 gal/120 lb wide track  |
|                                                                                   |                                                                                     | <b>3310-032</b> Comfort Grip Grease Handle with 36" Whip Hose and Z-swivel                                                                                                                                                                  | <b>4310-004</b> Dolly, 55 gal/400 lb HD                                              |                                                                                                                                              |                                                                                                                                                                                                                            |                                                  |
|                                                                                   |    | <b>5310-024</b> Grease coupler 4-Jaws                                                                                                                                                                                                       | Carts                                                                                |                                                            | <b>4320-011</b> Drum cart: 35 lb grease, 2 wheels. Fits both the 35 lb pail and 120 lb drum                                                                                                                                |                                                  |
|  | <b>4420-012</b> Holster, for grease gun - mounts on pail cover 4420-010             | <b>4320-012</b> Drum cart: 120 lb/16 gal grease, 2 rear wheels. Front stabilizing rubber pads.                                                                                                                                              |                                                                                      |                                                                                                                                              |                                                                                                                                                                                                                            |                                                  |
| Drum Covers                                                                       |  | <b>4420-010</b> 25-35 lb Pail Lion™ 350. Includes carry handle                                                                                                                                                                              |                                                                                      |                                                                                                                                              |                                                                                                                                        | <b>4320-013</b> 3 Wheel drum cart: 400 lb/55 gal |
|                                                                                   |  | <b>4420-011</b> 120 lb Lion™ 350                                                                                                                                                                                                            |  | <b>4320-014</b> Drum cart: 400 lb/55gal heavy duty, 3 wheels with rear locking caster (to mount hose reel, use 2230-036 hose reel mount kit) |                                                                                                                                                                                                                            |                                                  |
|                                                                                   |  | <b>4420-015</b> 400 lb for Lion™ 350                                                                                                                                                                                                        |                                                                                      | <b>2230-036</b> Hose reel mount kit for 4320-014 Heavy duty drum cart                                                                        |                                                                                                                                                                                                                            |                                                  |
| Follower plates                                                                   |  | <b>4440-013</b> 25-35 lb pail for Lion™ 350                                                                                                                                                                                                 | Hose reel mount kit                                                                  |                                                          |                                                                                                                                                                                                                            |                                                  |
| Filter / Regulator                                                                |  | <b>4440-014</b> 120 lb for Lion™ 350                                                                                                                                                                                                        |                                                                                      |                                                                                                                                              |                                                                                                                                                                                                                            |                                                  |
|                                                                                   |  | <b>4440-018</b> 400 lb for Lion™ 350                                                                                                                                                                                                        |                                                                                      |                                                                                                                                              |                                                                                                                                                                                                                            |                                                  |
|                                                                                   |  | <b>3260-035</b> Filter/reg, auto drain 3/8"                                                                                                                                                                                                 |                                                                                      |                                                                                                                                              |                                                                                                                                                                                                                            |                                                  |
|                                                                                   |                                                                                     | See pg. 175 for complete listing                                                                                                                                                                                                            |                                                                                      |                                                                                                                                              |                                                                                                                                                                                                                            |                                                  |

# Grease Piston Pumps

## Lion™ 450 25:1 Pump

1



| Dimensions inches (MM) |                    |               |                   |
|------------------------|--------------------|---------------|-------------------|
| A                      | B                  | C             | D                 |
| 53.25"<br>(1,357 mm)   | 19.75"<br>(502 mm) | 2"<br>(50 mm) | 33.5"<br>(855 mm) |

## Grease up to NLGI-2 High Viscosity Oil

This medium pressure double ball pump can be used for both grease and oil in high volume medium pressure bulk transfer applications. The construction of the pump allows for dual use for grease systems that don't require high pressure or a high volume medium pressure oil system.

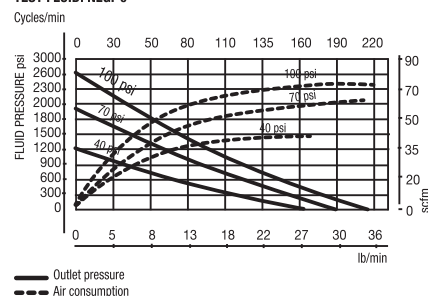
### Applications

- Lube trucks bulk transfer
- Mining and construction; grease and oil transfer
- In-plant supply/maintenance

| TECHNICAL DATA                 |                                                           |
|--------------------------------|-----------------------------------------------------------|
| Pump ratio                     | 25:1                                                      |
| Continuous duty flow rate      | 13 lb/min (6 kg/min)                                      |
| Cycles per lb                  | 6                                                         |
| Maximum free flow              | 35 lb/min (16 kg/min)                                     |
| Operating air pressure         | 30 - 200 psi (1.38 - 14 bar)                              |
| Maximum fluid stall pressure   | 5,000 psi (350 bar)                                       |
| Air motor effective diameter   | 4.5" (115 mm)                                             |
| Air motor stroke               | 4" (100 mm)                                               |
| Air consumption <sup>(1)</sup> | 47 CFM (1,340 NI/min)                                     |
| Air inlet                      | 1/2" NPT(F)                                               |
| Fluid outlet                   | 1/2" NPT(F)                                               |
| Wetted materials               | Cast Iron, Steel, Hard Chromed Steel, UHMWPE, and Buna-N™ |
| Noise level <sup>(2)</sup>     | 80 dB                                                     |
| Service bulletin               | SB 1139                                                   |

| MODELS AVAILABLE | DESCRIPTION                            |
|------------------|----------------------------------------|
| 1450-001         | Lion™ 450 25:1 grease 400 lb drum pump |

### TEST FLUID: NLGI-0



1) Maximum air consumption with 5 bar air inlet pressure and 80 cpm.

(2) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

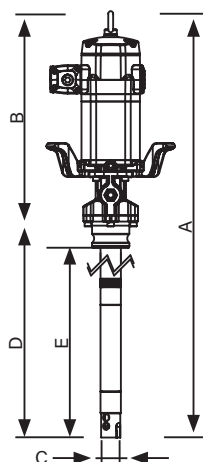
**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

# Grease Piston Pumps

## Lion™ 450 40:1 Pump



| Dimensions inches (MM) |                    |               |                    |                    |
|------------------------|--------------------|---------------|--------------------|--------------------|
| 1450-002               |                    |               |                    |                    |
| A                      | B                  | C             | D                  | E                  |
| 53.25"<br>(1,357 mm)   | 19.75"<br>(502 mm) | 2"<br>(50 mm) | 33.5"<br>(855 mm)  | N/A                |
| 1450-003               |                    |               |                    |                    |
| A                      | B                  | C             | D                  | E                  |
| 45.25"<br>(1,152 mm)   | 19.75"<br>(502 mm) | 2"<br>(50 mm) | 25.5"<br>(650 mm)  | N/A                |
| 1450-004               |                    |               |                    |                    |
| A                      | B                  | C             | D                  | E                  |
| 39"<br>(992 mm)        | 19.75"<br>(502 mm) | 2"<br>(50 mm) | 19.25"<br>(490 mm) | 16.25"<br>(410 mm) |

### TECHNICAL DATA

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Pump ratio                     | 40:1                                                            |
| Continuous duty flow rate      | 8 lb/min (3.5 kg/min)                                           |
| Cycles per lb                  | 10                                                              |
| Maximum free flow              | 24 lb/min (11 kg/min)                                           |
| Operating air pressure         | 30 - 200 psi (1.38- 14 bar)                                     |
| Maximum fluid stall pressure   | 8,000 psi (560 bar)                                             |
| Air motor effective diameter   | 4.5" (115 mm)                                                   |
| Air motor stroke               | 4" (100 mm)                                                     |
| Air consumption <sup>(1)</sup> | 26.5 CFM (750 NI/min)                                           |
| Air inlet                      | 1/2" NPT(F)                                                     |
| Fluid outlet                   | 1/2" NPT(F)                                                     |
| Wetted materials               | Cast Iron, Steel, Hard Chromed Steel, UHMWPE, Buna-N™, and PTFE |
| Noise level <sup>(2)</sup>     | 80 dB                                                           |
| Service Bulletin               | SB 1131                                                         |

(1) Air consumption at 5 bar air pressure, NLGI-0 grease at 20° C and 80 cpm.

(2) Noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

## Grease up to NLGI-2

Designed for medium volume applications that require higher flow and pressure delivery. This pump can be used with a follower plate system, combined with a gravity inductor system, or a double post RAM for simultaneous dispense, and higher flow applications (see pg. 53 & 54).

### Applications

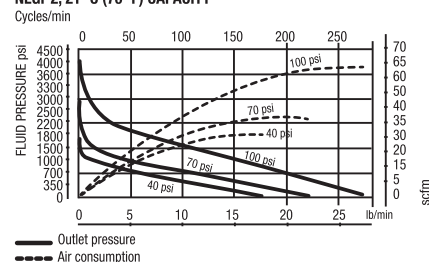
- HD truck grease dispensing needing simultaneous dispense points
- Truck fleets fifth wheel applications
- Lube trucks
- Railroad/mass transit
- In-plant medium volume usage
- Marine

### MODELS AVAILABLE

### DESCRIPTION

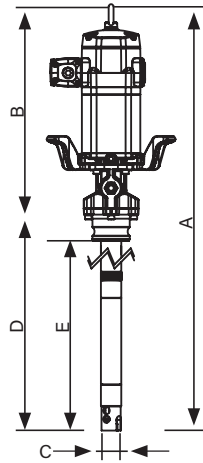
|                 |                                        |
|-----------------|----------------------------------------|
| <b>1450-003</b> | Lion™ 450 40:1 grease 120 lb drum pump |
| <b>1450-002</b> | Lion™ 450 40:1 grease 400 lb drum pump |
| <b>1450-004</b> | Lion™ 450 40:1 grease bulk tote pump   |

### NLGI-2, 21 °C (70 °F) CAPACITY



# Grease Piston Pumps

## Lion™ 450 70:1 Pump



| Dimensions inches (MM) |                    |               |                    |                    |
|------------------------|--------------------|---------------|--------------------|--------------------|
| 1450-005               |                    |               |                    |                    |
| A                      | B                  | C             | D                  | E                  |
| 53.25"<br>(1,357 mm)   | 19.75"<br>(502 mm) | 2"<br>(50 mm) | 33.5"<br>(855 mm)  | N/A                |
| 1450-006               |                    |               |                    |                    |
| 45.25"<br>(1,152 mm)   | 19.75"<br>(502 mm) | 2"<br>(50 mm) | 25.5"<br>(650 mm)  | N/A                |
| 1450-007               |                    |               |                    |                    |
| 39"<br>(992 mm)        | 19.75"<br>(502 mm) | 2"<br>(50 mm) | 19.25"<br>(490 mm) | 16.25"<br>(410 mm) |

## Grease up to NLGI-2

Designed for very cold environments and/or applications where only medium pressure air is available to power the pump which could limit the performance and application of greasing. This pump can be used with a follower plate system, combined with a gravity inductor system, or a double post RAM for simultaneous dispense or higher flow applications (see pg. 53 & 54).

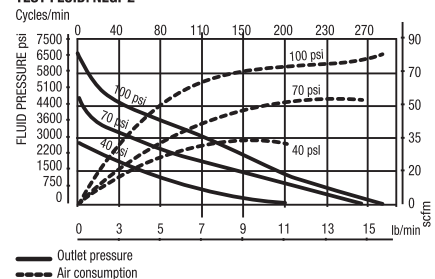
### Applications

- Lube trucks
- Railroad/mass transit
- In-plant long distance pumping
- Marine
- Oil fields/fracking

| TECHNICAL DATA                        |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Pump ratio                            | 70:1                                                            |
| Continuous duty flow rate             | 5 lb/min (2 kg/min)                                             |
| Cycles per lb                         | 17                                                              |
| Maximum free flow                     | 16 lb/min (7.25 kg/min)                                         |
| Operating air pressure <sup>(3)</sup> | 30 - 100 psi (1.38 - 7 bar)                                     |
| Maximum fluid stall pressure          | 7,000 psi (490 bar)                                             |
| Air motor effective diameter          | 4.5" (115 mm)                                                   |
| Air motor stroke                      | 4" (100 mm)                                                     |
| Air consumption <sup>(1)</sup>        | 32.6 CFM (925 NI/min)                                           |
| Air inlet                             | 1/2" NPT(F)                                                     |
| Fluid outlet                          | 1/2" NPT(F)                                                     |
| Wetted materials                      | Cast Iron, Steel, Hard Chromed Steel, UHMWPE, Buna-N™, and PTFE |
| Noise level <sup>(2)</sup>            | 80 dB                                                           |
| Service Bulletin                      | SB 1140                                                         |

| MODELS AVAILABLE | DESCRIPTION                            |
|------------------|----------------------------------------|
| <b>1450-006</b>  | Lion™ 450 70:1 grease 120 lb drum pump |
| <b>1450-005</b>  | Lion™ 450 70:1 grease 400 lb drum pump |
| <b>1450-007</b>  | Lion™ 450 70:1 grease bulk tote pump   |

### TEST FLUID: NLGI-2

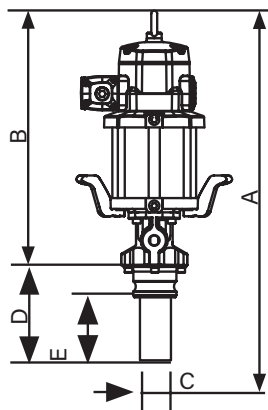


(1) Air consumption at 5 bar air pressure, NLGI-0 grease at 20° C and 80 cpm.  
 (2) Noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.  
 (3) Pump air limited to 100 psi (7 bar) due to connecting hose pressure limits.  
**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.  
 Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

# Grease Piston Pumps

## Lion™ 600 12:1 Pump



| Dimensions inches (MM) |                 |                  |                |                   |
|------------------------|-----------------|------------------|----------------|-------------------|
| A                      | B               | C                | D              | E                 |
| 29"<br>(742 mm)        | 20"<br>(516 mm) | 2.75"<br>(70 mm) | 9"<br>(226 mm) | 5.75"<br>(146 mm) |

| TECHNICAL DATA                 |                                                                               |
|--------------------------------|-------------------------------------------------------------------------------|
| Pump ratio                     | 12:1                                                                          |
| Continuous duty flow rate      | 33 lb/min (1.5 kg/min)                                                        |
| Cycles per lb                  | 2                                                                             |
| Maximum free flow              | 88 lb/min (40 kg/min)                                                         |
| Operating air pressure         | 30 - 100 psi (1.38 - 7 bar)                                                   |
| Maximum fluid stall pressure   | 1,200 psi (84 bar)                                                            |
| Air motor effective diameter   | 6" (150 mm)                                                                   |
| Air motor stroke               | 4" (100 mm)                                                                   |
| Air consumption <sup>(1)</sup> | 39 CFM (1.100 NI/min)                                                         |
| Air inlet                      | 1/2" NPT(F)                                                                   |
| Fluid outlet                   | 1" NPT(F)                                                                     |
| Wetted materials               | Cast Iron, Steel, Hard Chromed Steel, UHMWPE, Buna-N™, PTFE, and Polyurethane |
| Noise level <sup>(2)</sup>     | 80 dB                                                                         |
| Service bulletin               | SB 1142                                                                       |

(1) Air consumption at 5 bar air pressure, NLGI-0 grease at 20° C and 80 cpm.  
 (2) Noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.  
**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.  
 Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

## Grease up to NLGI-2

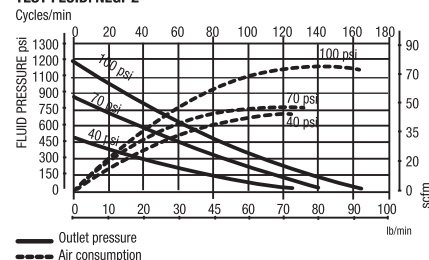
Medium pressure grease pump for very high volume applications. Bulk transfer of grease from large containers to drums or pails, lube trucks or other transfer applications at high delivery rates. Pump comes with a 3" cam-lock for easy installation into grease totes.

### Applications

- Mining and construction
- Railroad/mass transit
- In-plant grease transfer

| MODELS AVAILABLE | DESCRIPTION                          |
|------------------|--------------------------------------|
| <b>1450-010</b>  | Lion™ 600 12:1 grease bulk tote pump |

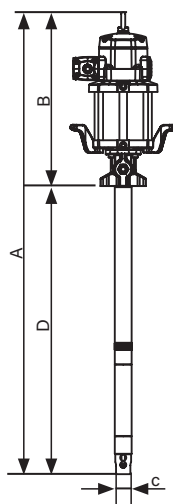
### TEST FLUID: NLGI-2



# Grease Piston Pumps

## Lion™ 600 80:1 Pump

1



| Dimensions inches (MM) |                 |               |                   |
|------------------------|-----------------|---------------|-------------------|
| 1450-008               |                 |               |                   |
| A                      | B               | C             | D                 |
| 53.5"<br>(1,371 mm)    | 20"<br>(516 mm) | 2"<br>(50 mm) | 33.5"<br>(855 mm) |
| 1450-009               |                 |               |                   |
| 45.5"<br>(1,166 mm)    | 20"<br>(516 mm) | 2"<br>(50 mm) | 25.5"<br>(650 mm) |

## Grease up to NLGI-2

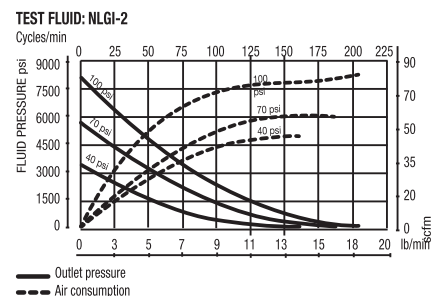
Designed for very cold environments and/or applications where only medium pressure air is available to power the pump which could limit the performance and application of greasing. This pump can be used with a follower plate system, combined with a gravity inductor system, or a double post RAM for simultaneous dispense, or higher flow applications (see pg. 53 & 54). Similar to the Lion™ 450 70:1 pump but operates at lower cycle rates for severe environments.

### Applications

- Lube trucks
- Railroad/mass transit
- In-plant long distance pumping
- Marine
- Oil fields/fracking

| TECHNICAL DATA                        |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Pump ratio                            | 80:1                                                            |
| Continuous duty flow rate             | 6 lb/min (2.5 kg/min)                                           |
| Cycles per lb                         | 11                                                              |
| Maximum free flow                     | 18 lb/min (8 kg/min)                                            |
| Operating air pressure <sup>(3)</sup> | 30 - 100 psi (1.38 - 7 bar)                                     |
| Maximum fluid stall pressure          | 8,000 psi (560 bar)                                             |
| Air motor effective diameter          | 6" (150 mm)                                                     |
| Air motor stroke                      | 4" (100 mm)                                                     |
| Air consumption <sup>(1)</sup>        | 39 CFM (1.100 NI/min)                                           |
| Air inlet                             | 1/2" NPT(F)                                                     |
| Fluid outlet                          | 1/2" NPT(F)                                                     |
| Wetted materials                      | Cast Iron, Steel, Hard Chromed Steel, UHMWPE, Buna-N™, and PTFE |
| Noise level <sup>(2)</sup>            | 80 dB                                                           |
| Service Bulletin                      | SB 1141                                                         |

| MODELS AVAILABLE | DESCRIPTION                            |
|------------------|----------------------------------------|
| <b>1450-009</b>  | Lion™ 600 80:1 grease 120 lb drum pump |
| <b>1450-008</b>  | Lion™ 600 80:1 grease 400 lb drum pump |



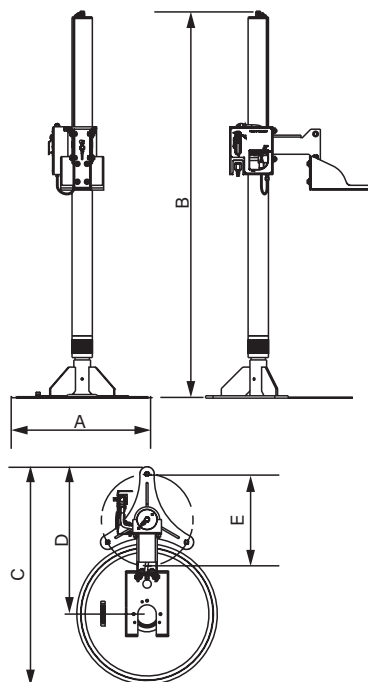
(1) Air consumption at 5 bar air pressure, NLGI-0 grease at 20° C and 80 cpm.  
 (2) Noise level measured at 1 m from the pump, 7 bar air pressure and free delivery  
 (3) Pump air limited to 100 psi (7 bar) due to connecting hose pressure limits.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.

# Grease Piston Pumps Lion™ Inductor



| Dimensions inches (MM) |                                        |                    |                    |                 |
|------------------------|----------------------------------------|--------------------|--------------------|-----------------|
| A                      | B<br>Lowered/<br>Raised                | C                  | D                  | E               |
| 23.25"<br>(588 mm)     | 58"<br>(1470 mm)<br>94.5"<br>(2400 mm) | 35.75"<br>(910 mm) | 24.03"<br>(617 mm) | 15"<br>(381 mm) |

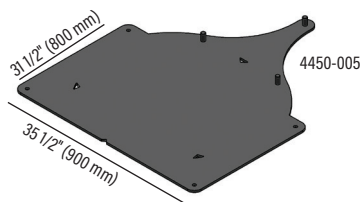
## TECHNICAL DATA

|                                    |                  |
|------------------------------------|------------------|
| Diameter of the pneumatic cylinder | 3" (75 mm)       |
| Stroke of the pneumatic cylinder   | 36.6" (930 mm)   |
| Minimum height of equipment        | 58" (1,470 mm)   |
| Maximum height of equipment        | 94.5" (2,400 mm) |
| Air inlet                          | 1/2" NPT(M)      |
| Maximum air pressure               | 116 psi (8 bar)  |
| Service Bulletin                   | SB 4228          |

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets.

Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.



## Grease NLGI-2

Lion™ 450 and Lion™ 600 grease pumps are used with 400 lb drums in applications where higher volumes of grease are required. The air operated pump hoist lifts and lowers the pump, making drum changes easier, faster and safer. The pump's lower end is rigidly fixed to a follower plate with a single rubber lip. The weight of the pump, pump bracket and follower plate plus atmospheric pressure push the assembly against the grease eliminating channeling and air pockets, keeping grease free from contaminants, minimizing waste and aiding pump priming.

### Applications

- High volume grease applications such as fifth wheel
- Medium/large volume vehicle maintenance shops
- Grease transfer
- In-plant grease supply

May require air supply fitting 3270-055

| MODELS AVAILABLE | DESCRIPTION                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>1451-004</b>  | Package, Lion™ 450, 40:1 Inductor Includes:<br>1450-002 Lion™ 450, 40:1 pump<br>4450-003 Inductor, Gravity, Pump Lift & follower plate |
| <b>1451-005</b>  | Package, Lion™ 450, 70:1 Inductor Includes:<br>1450-005 Lion™ 450, 70:1 pump<br>4450-003 Inductor, Gravity, Pump Lift & follower plate |
| <b>1451-006</b>  | Package, Lion™ 600, 80:1 Inductor Includes:<br>1450-008 Lion™ 600, 80:1 pump<br>4450-003 Inductor, Gravity, Pump Lift & follower plate |
| <b>4450-005</b>  | Base plate for pump hoist & inductor                                                                                                   |
| <b>4450-003</b>  | Inductor, Gravity, Pump Lift & follower plate                                                                                          |
| <b>833650</b>    | Fixed inductor plate for Lion™ 450 & 600 (kit only)                                                                                    |

# Grease Piston Pumps

## Lion™ Inductor, Double Post RAM

### Grease NLGI-2 Grease NLGI-3

Lion™ 450 and Lion™ 600 grease pumps are used with 400 lb. drums in applications where high volumes of grease are required, environmental temperatures are low or higher viscosity greases are used. The air operated double post RAM inductor features controlled RAM pressure to assist in pump priming. When the double lip inductor plate is rigidly attached to the lower end of pump tube, the weight of the pump and lift pneumatic pressure of the RAM plus atmospheric pressure on the material forces and improves pump priming. The inductor plate also serves as protection against contaminants and eliminates material waste. for use with 400 lb. (185 kg) drums.

#### Applications

- High volume grease applications such as fifth wheel with multiple dispense points
- High volume large vehicle maintenance shops
- Industrial grease transfer to machines
- Mining
- Bulk grease transfer

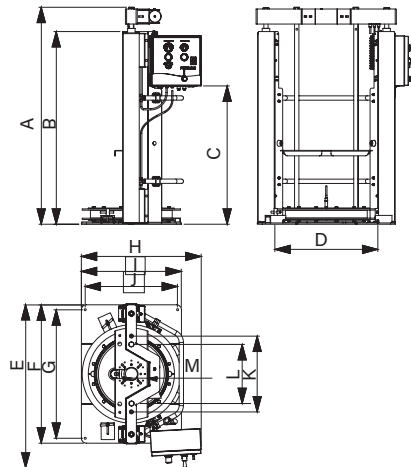
Unit also includes guide rods, drum retaining mechanism and a control box with the following features:

- On-off control of the pump
- Up-down control of the RAM (drum exchange)
- Two independent air pressure regulators, one for the pump and for the power RAM cylinders
- Pump independent pressure gauge
- Empty drum shut-off safety feature
- Automatic vacuum release

When purchasing the double post inductor without a pump, contact Balcrank technical support for pump requirements.

**Warning!** Do not use any Lion™ 450/600 series products with flammable fluids.

Verify fluid compatibility with MSDS sheets. Contact Balcrank for pumping grease higher than NLGI-2 and specific system design performance technical data.



1451-001








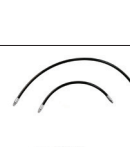

























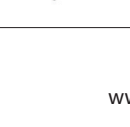
| MODELS AVAILABLE | DESCRIPTION                                                                                                                                                                                     |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1451-001         | Package, Lion™ 450, 40:1 pump. Double Post Inductor.<br>Includes:<br>1450-003 Lion™ 450, 40:1 pump<br>4450-004 Double Post Inductor<br>833650 Kit, Collar/Follower-Plate                        |
| 1451-002         | Package, Lion™ 450, 70:1 pump. Double Post Inductor.<br>Includes:<br>1450-006 Lion™ 450, 70:1 pump<br>4450-004 Double Post Inductor<br>833650 Kit, Collar/Follower-Plate                        |
| 1451-003         | Package, Lion™ 600, 80:1 pump. Double Post Inductor.<br>Includes:<br>1450-009 Lion™ 600, 80:1 pump<br>4450-004 Double Post Inductor<br>833650 Kit, Collar/Follower-Plate                        |
| 1451-007*        | Package, Lion™ 600, 12:1 pump. Double Post Inductor.<br>Includes:<br>1450-010 Lion™ 600, 12:1 pump<br>4450-004 Double Post Inductor<br>includes 3" Cam-lock for mounting pump to inductor plate |
| 4450-004         | Inductor, double post air operated                                                                                                                                                              |

\* When using this RAM with the 12:1, contact Balcrank customer service for additional needed components



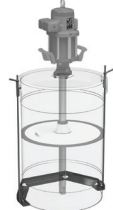










| Dimensions inches (MM)           |                     |                    |
|----------------------------------|---------------------|--------------------|
| A<br>Lowered/ Raised             | B                   | C                  |
| 52" (1,320 mm)<br>88" (2,230 mm) | 45.5"<br>(1,156 mm) | 32.66"<br>(830 mm) |
| D                                | E                   | F                  |
| 24.5"<br>(74 mm)                 | 38.75"<br>(554 mm)  | 32.66"<br>(830 mm) |
| G                                | H                   | I                  |
| 30.33"<br>(771 mm)               | 28.33"<br>(720 mm)  | 23.66"<br>(600 mm) |
| J                                | K                   | L                  |
| 21.75"<br>(554 mm)               | 18"<br>(455 mm)     | 14"<br>(355 mm)    |
| M                                |                     |                    |
| 4"<br>(104 mm)                   |                     |                    |

# Grease Piston Pumps Accessories

1

|                         |                                                                                      |                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Liquid Separator        |     | Liquid Separator removes bulk liquid at all points within the compressed air system.<br><br>See pg. 174 for more details                                               | Grease handles                                                                       |    | <b>3310-008</b> Pro Series Grease Handle                                                                                                                            |                                                                                      |                                                                                          |
| Drum cover 25-35 lb     |     | <b>4420-010</b> 25-35 lb Pail LYNX® 55:1.<br>Includes carry handle<br><br><b>4420-008</b> 25-35 lb Pail Panther® HP 50:1                                               |                                                                                      |    | <b>3310-010</b> Pro Series Grease Handle with Z-swivel                                                                                                              |                                                                                      |                                                                                          |
| Holster                 |     | <b>4420-012</b> Holster, grease gun holder for LYNX® drum cover 4420-010                                                                                               |                                                                                      |    | <b>3310-025</b> Pro Series Grease Handle with 18" Whip Hose and Z-swivel                                                                                            |                                                                                      |                                                                                          |
| Drum cover 120 lb       |     | <b>4420-011</b> 120 lb LYNX® 55:1<br><br><b>4420-009</b> 120 lb Panther® HP 50:1<br><br><b>4420-014</b> Drum cover Lion™ 450/600 120 lb                                |                                                                                      |    | <b>3310-020</b> Pro Series Grease Handle with 36" Whip Hose and Z-swivel                                                                                            |                                                                                      |                                                                                          |
| Drum cover 400 lb       |     | <b>4420-007</b> 400 lb Off-Set                                                                                                                                         |                                                                                      |   | <b>3310-007</b> Pro Series Booster Grease Handle                                                                                                                    |                                                                                      |                                                                                          |
|                         |     | <b>4420-015</b> 400 lb for LYNX® 55:1                                                                                                                                  |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |     | <b>4420-004</b> 400 lb for Panther® 50:1                                                                                                                               |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |     | <b>4420-013</b> 400 lb for Lion™ 450, 600, 800                                                                                                                         |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |    | <b>4420-016</b> 120 lb for Lion™ 800                                                                                                                                   |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |   | <b>4420-003</b> 400 lb for Lion™ HP 50:1 (Old Style)                                                                                                                   |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
| Follower plate 25-35 lb |   | <b>4440-013</b> 25-35 lb pail for LYNX®/Lion™<br><br><b>4440-007</b> 25-35 lb pail for Panther® HP 50:1                                                                | Other accessories                                                                    |  | <b>8390-002</b> 18" Whip Hose HP                                                                                                                                    |                                                                                      |                                                                                          |
| Follower plate 120 lb   |   | <b>4440-014</b> 120 lb for LYNX®/ Lion™                                                                                                                                |                                                                                      |  | <b>8390-003</b> 36" Whip Hose HP                                                                                                                                    |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>4440-008</b> 120 lb for Panther® HP 50:1                                                                                                                            |                                                                                      |  | <b>8390-004</b> 42" Whip hose HP                                                                                                                                    |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>4440-017</b> 120 lb for Lion™ 450/600<br><br><b>4420-020</b> 120 lb for Lion™ 800                                                                                   |                                                                                      |  | Max. pressure 5,000 psi (345 bar)<br>Hose end 1/8" NPT(M) on both ends<br>Compatible fluid NLGI-2 Grease<br>Flexible Extension                                      |                                                                                      |                                                                                          |
| Follower plate 400 lb   |   | <b>4440-018</b> 400 lb for LYNX®/ Lion™                                                                                                                                |  | <b>5310-018</b> Z-Swivel 1/4" NPT(F) x 1/4" NPT(M)                                   |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>4440-019</b> 400 lb for Lion™ 800                                                                                                                                   |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
| Bung Adapters           |   | <b>4440-009</b> 400 lb for Panther® HP 50:1                                                                                                                            |  | <b>5200-017</b> Quick Lock grease coupler 1/8" NPT(F)                                |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>4440-012</b> 400 lb for Lion™ HP (Old Style 50:1)                                                                                                                   |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>4440-015</b> 400 lb for Lion™ 450/600                                                                                                                               |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>4411-023</b> Bung adapter, aluminum: LYNX® 55:1<br><br><b>4411-021</b> Bung adapter, aluminum: Lion™ 450/600 25:1, 40:1, & 70:1                                     |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
| Cam-lock                |   | <b>4140-058</b> Male cam-lock 3" for Lion™ 450, 600, 800 for tote applications                                                                                         |  | <b>5310-024</b> Grease coupler 4-Jaws                                                |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>4140-070</b> Male cam-lock 3" for Lion 800 200:1                                                                                                                    |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
| Filter regulator (F/R)  |   | <b>4140-059</b> Female cam-lock 3" for Lion™ 450/600 for tote applications                                                                                             |  | <b>5400-003</b> Bearing Packer                                                       |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      | <b>3260-036</b> F/R auto drain 1/2" NPT(F)<br>See pg. 175 for complete listing                                                                                         |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
| Hose                    |   |                                                                                                                                                                        |  | <b>8340-010</b> HP Hose 10'x1/2"<br><b>8340-020</b> HP Hose 20'x1/2"                 |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      |                                                                                                                                                                        |                                                                                      |                                                                                      | Pump runaway control                                                                                                                                                |  | <b>3241-003</b> Pump Runaway Control 1/2" NPT(F)<br><b>3241-004</b> Pump Runaway Bracket |
|                         |                                                                                      |                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
| Connecting hose kit     |  | <b>4410-036</b> Connecting Hose Kit for Panther® Grease:<br>8132-005 LP Hose 5' x 3/8"<br>8331-010 HP Hose 10' x 3/8"<br>3270-004 Nipple 1/4"<br>3270-003 Coupler 1/4" |                                                                                      |                                                                                      |                                                                                                                                                                     |                                                                                      |                                                                                          |
|                         |                                                                                      |                                                                                                                                                                        | Connecting hose kit                                                                  |  | <b>4410-030</b> Connecting Hose Kit for Lion™ Grease:<br>8144-005 LP Hose 5' x 1/2"<br>8340-010 HP Hose 10' x 1/2"<br>3270-001 Nipple 3/8"<br>3270-002 Coupler 3/8" |                                                                                      |                                                                                          |

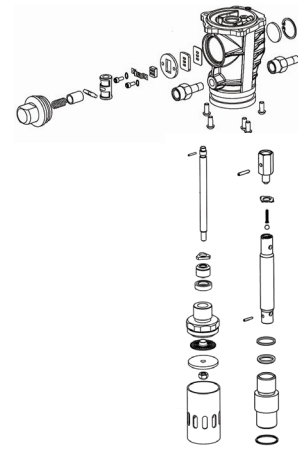
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|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                       |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dollies                           | <br>4310-001<br><br><br>4310-004                                                                                                                                                                                                           | 4310-005 Dolly Base, 25 - 35 lb/5 gal                                                                                                 | Hold down rod kits |    | 7120-025 Hold down rod kit, Lion™ 450/600 120 lb for use with 4420-014 Drum cover for Lion™ 450/600, 120 lb                                                                                                                                                                                                                      |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 4310-001 Band Dolly, 120 lb/16 gal                                                                                                    |                    |                                                                                      | 7120-024 Hold down rod kit, Lion™ 450/600 400 lb for use with 4420-013 Drum cover Lion™ 450/600, 400 lb                                                                                                                                                                                                                          |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 4310-003 Band dolly, 120 lb/16 gal wide track                                                                                         |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 4310-004 Dolly, 400 lb/55 gal HD                                                                                                      |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
| Carts                             | <br>4320-011<br><br><br>4320-012<br><br><br>4320-013<br><br><br>4320-014 | 4320-011 Drum cart: 35 lb grease, 2 wheels. Fits both the 35 lb pail and 120 lb drum                                                  | Grease pump hoist  |    | 4450-002 Pump Lift, Air Operated for Lion™ 450/600                                                                                                                                                                                                                                                                               |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 4320-012 Drum cart: 120 lb/16 gal grease, 2 rear wheels. Front stabilizing rubber pads.                                               |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 4320-013 Drum cart: 400 lb/55 gal                                                                                                     | Mobile drum cover  |  | 4420-014 Mobile drum cover, 120 lb for Panther® HP 50:1- Center (Mobile drum covers require hold down rods, use 7120-025), for use with Panther® pump. Ask for flange mount kit 7120-026.<br><br>4420-013 Mobile drum cover, 400 lb for Panther® HP 50:1- Center hole (Mobile drum covers require hold down rods, use 7120-024). |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 4320-014 Drum cart: 400 lb/55gal heavy duty, 3 wheels with rear locking caster (to mount hose reel, use 2230-036 hose reel mount kit) |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
| Shut-off valve bleed type for air |                                                                                                                                                                                                                                                                                                                           | 3230-009 Shut-off valve, 3/8" NPT(F), 200 psi (13.7 bar)                                                                              | Mobile drum cover  |  | 4420-014 Mobile drum cover, 120 lb for Panther® HP 50:1- Center (Mobile drum covers require hold down rods, use 7120-025), for use with Panther® pump. Ask for flange mount kit 7120-026.<br><br>4420-013 Mobile drum cover, 400 lb for Panther® HP 50:1- Center hole (Mobile drum covers require hold down rods, use 7120-024). |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 3230-010 Shut-off valve, 1/2" NPT(F), 200 psi (13.7 bar)                                                                              |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 3230-011 Shut-off valve, 3/4" NPT(F), 200 psi (13.7 bar)                                                                              |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
| Ball valve fully ported           |                                                                                                                                                                                                                                                                                                                           | 3230-023 Ball valve, 3/8" 7250 psi (500 bar)                                                                                          | Mobile drum cover  |  | 4420-014 Mobile drum cover, 120 lb for Panther® HP 50:1- Center (Mobile drum covers require hold down rods, use 7120-025), for use with Panther® pump. Ask for flange mount kit 7120-026.<br><br>4420-013 Mobile drum cover, 400 lb for Panther® HP 50:1- Center hole (Mobile drum covers require hold down rods, use 7120-024). |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 3230-015 Ball valve, 1/2" 7250 psi (500 bar)                                                                                          |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 3230-016 Ball valve, 3/4" 5800 psi (400 bar)                                                                                          |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                              | 3230-017 Ball valve, 1" 5075 psi (350 bar)                                                                                            |                    |                                                                                      |                                                                                                                                                                                                                                                                                                                                  |

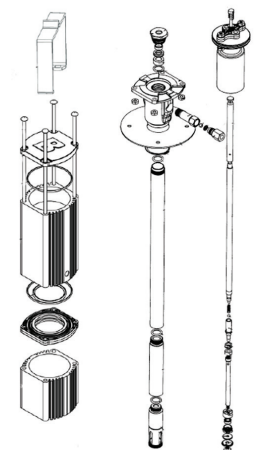
# Piston Pump Repair Kits for Grease

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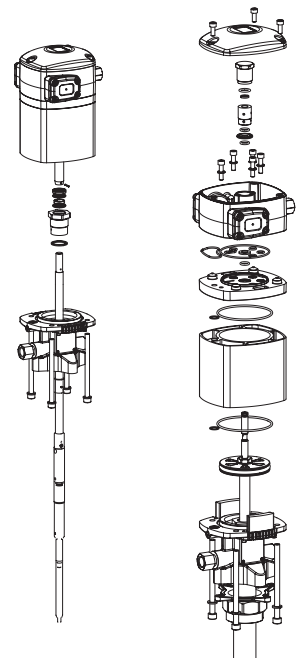
| LYNX® 55:1 SERIES                                     |               |                                  |
|-------------------------------------------------------|---------------|----------------------------------|
| PUMP MODELS                                           | KIT NUMBER    | DESCRIPTION                      |
| LYNX® 55:1 SERIES PUMPS, 1150-022, 1150-023, 1150-024 |               |                                  |
| 1150-022, 1150-023, 1150-024                          | <b>833038</b> | Air motor kit                    |
| 1150-022, 1150-023, 1150-024                          | <b>833039</b> | Packing Seal kit                 |
| 1150-022, 1150-023, 1150-024                          | <b>833040</b> | Inlet Check Valve - Poly Kit     |
| 1150-022, 1150-023, 1150-024                          | <b>833041</b> | HP Piston/cylinder & check valve |
| 1150-022, 1150-023, 1150-024                          | <b>833059</b> | Inlet Filter Kit                 |



| PANTHER® HP 50:1 SERIES                                  |               |                                         |
|----------------------------------------------------------|---------------|-----------------------------------------|
| PUMP MODELS                                              | KIT NUMBER    | DESCRIPTION                             |
| PANTHER® 50:1 SERIES PUMPS, 1150-009, 1150-010, 1150-011 |               |                                         |
| Panther® HP Series Pumps - All                           | <b>900019</b> | Air motor kit - Trip Rod Assembly       |
| Panther® HP Series Pumps - All                           | <b>831614</b> | Air motor assembly kit- Includes Piston |
| Panther® HP Series Pumps - All grease                    | <b>831619</b> | Air - complete Pump assembly            |
| Panther® HP Series Pumps - All grease                    | <b>900022</b> | Fluid seal kit                          |
| 1150-009                                                 | <b>831616</b> | Fluid - complete Pump assembly          |
| 1150-010                                                 | <b>831617</b> | Fluid - complete Pump assembly          |
| 1150-011                                                 | <b>831618</b> | Fluid - complete Pump assembly          |



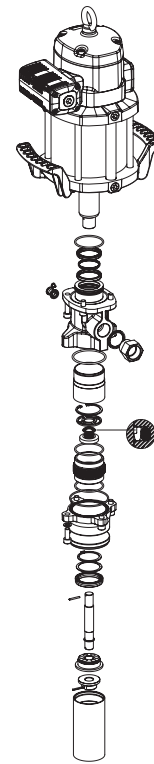
| LION™ 350                                             |               |                  |
|-------------------------------------------------------|---------------|------------------|
| PUMP MODELS                                           | KIT NUMBER    | DESCRIPTION      |
| LION™ 60:1 SERIES PUMPS, 1450-013, 1450-012, 1450-011 |               |                  |
| 1450-013, 1450-012, 1450-011                          | <b>833815</b> | Spool Kit        |
| 1450-013, 1450-012, 1450-011                          | <b>833812</b> | Lower seal kit   |
| 1450-013, 1450-012, 1450-011                          | <b>833874</b> | Lower valver kit |
| 1450-013, 1450-012, 1450-011                          | <b>833875</b> | Upper valve kit  |
| 1450-013, 1450-012, 1450-011                          | <b>833813</b> | Air motor kit    |
| 1450-013, 1450-012, 1450-011                          | <b>833877</b> | Muffler kit      |



# Piston Pump Repair Kits for Grease

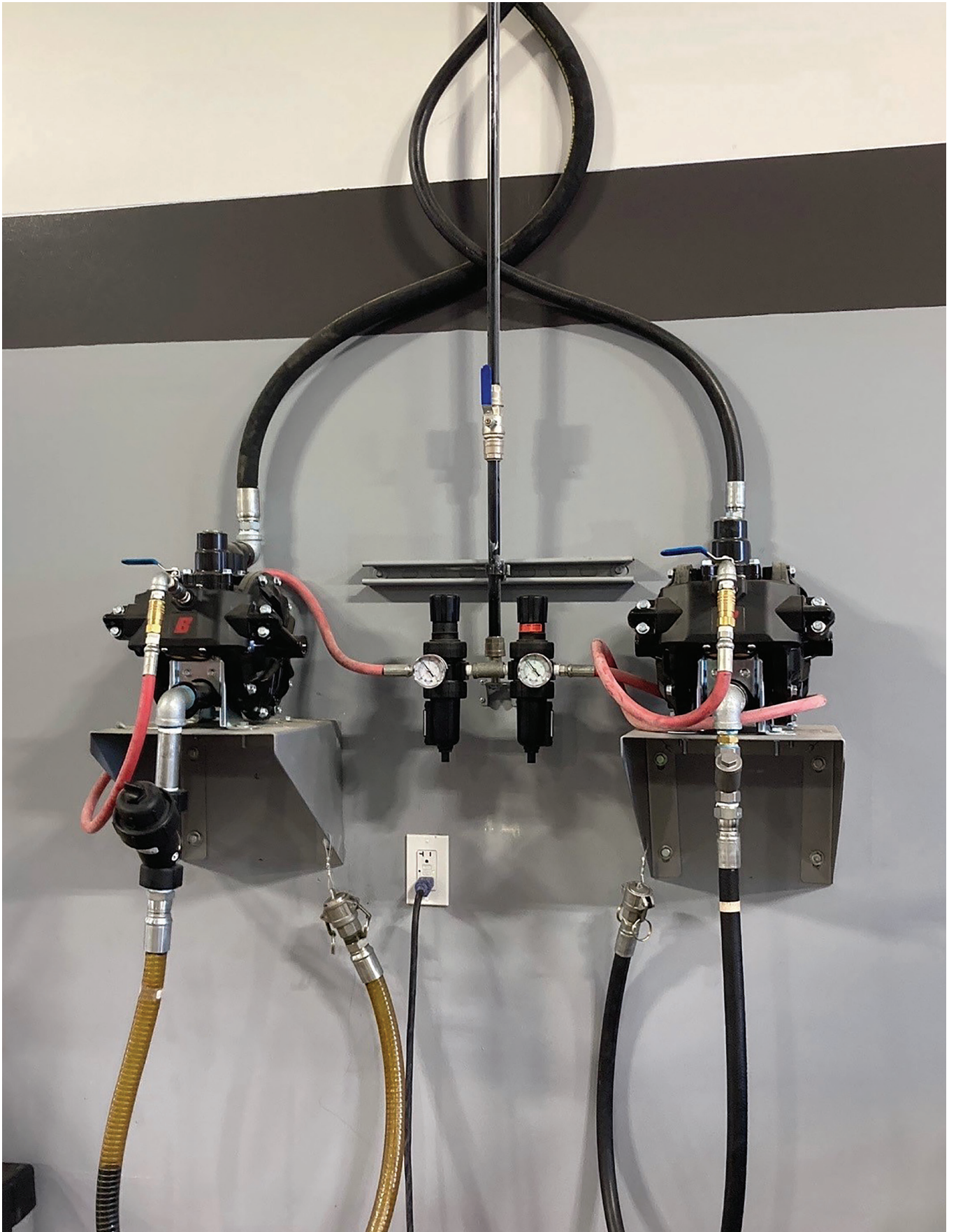
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| LION™ 450/600                                                                                                   |               |                                   |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|
| PUMP MODELS                                                                                                     | KIT NUMBER    | DESCRIPTION                       |
| LION™ 450 SERIES PUMPS 25:1, 1450-001, 40:1 - 1450-002, 1450-003, 1450-004, 70:1 - 1450-005, 1450-006, 1450-007 |               |                                   |
| LION™ 600 SERIES PUMPS 12:1 - 1450-010, 80:1 - 1450-008, 1450-009                                               |               |                                   |
| 1450-002, 1450-003, 1450-004, 1450-008, 1450-009                                                                | <b>833409</b> | Lower seals kit 40:1 & 80:1       |
| 1450-002, 1450-003, 1450-004, 1450-008, 1450-009                                                                | <b>833410</b> | Inlet Check Valve - Poly kit 40:1 |
| 1450-002, 1450-003, 1450-004, 1450-005, 1450-006, 1450-007, 1450-008, 1450-009                                  | <b>833411</b> | Upper Valve kit 40:1 & 70:1       |
| 1450-001, 1450-002, 1450-003, 1450-004, 1450-005, 1450-006, 1450-007                                            | <b>833412</b> | Air motor seals kit               |
| 1450-001, 1450-002, 1450-003, 1450-004, 1450-005, 1450-006, 1450-007, 1450-008, 1450-009, 1450-010              | <b>833413</b> | Exhaust muffler kit               |
| 1450-001, 1450-002, 1450-003, 1450-004, 1450-005, 1450-006, 1450-007, 1450-008, 1450-009, 1450-010              | <b>833414</b> | Spools & seals kit                |
| 1450-002, 1450-006, 1450-009                                                                                    | <b>833650</b> | Collar/follower plate kit         |
| 1450-005, 1450-006, 1450-007                                                                                    | <b>833598</b> | Lower seals kit 70:1              |
| 1450-005, 1450-006, 1450-007                                                                                    | <b>833599</b> | Inlet Check Valve - Poly kit 70:1 |
| 1450-001                                                                                                        | <b>833605</b> | Lower seals kit 25:1              |
| 1450-001                                                                                                        | <b>833606</b> | Inlet Check Valve - Poly kit 25:1 |
| 1450-001                                                                                                        | <b>833607</b> | Upper valve kit 25:1              |
| 1450-008, 1450-009, 1450-010                                                                                    | <b>833511</b> | Air motor seals kit Lion™ 600     |
| 1450-010                                                                                                        | <b>833512</b> | Lower seals kit 12:1              |
| 1450-010                                                                                                        | <b>833510</b> | Inlet Check Valve - Poly kit 12:1 |



| LION™ 800 SERIES REPAIR KITS               |               |                     |
|--------------------------------------------|---------------|---------------------|
| PUMP MODELS                                | KIT NUMBER    | DESCRIPTION         |
| LION™ 800 SERIES PUMPS, 1450-014, 1450-015 |               |                     |
| 1450-014, 1450-015                         | <b>833856</b> | Lower Seals Kit     |
| 1450-014, 1450-015                         | <b>833857</b> | Lower Valve Kit     |
| 1450-014, 1450-015                         | <b>833858</b> | Upper Valve Kit     |
| 1450-014, 1450-015                         | <b>833859</b> | Air Motor Seals Kit |
| 1450-014, 1450-015                         | <b>833860</b> | Air Piston Kit      |





AODD CenterFlo CF50 Application

# Diaphragm Pumps

## Product Selection Matrix

1

| MAX. FREE FLOW                | AIR INLET      | FLUID IN / OUT | WETTED PARTS        |                     | RECOMMENDED FLUID TYPES                                                                         | RECOMMENDED APPLICATIONS                                     |
|-------------------------------|----------------|----------------|---------------------|---------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
|                               |                |                | CHECK BALLS         | DIAPHRAGM           |                                                                                                 |                                                              |
| <b>CF10 POLYPROPYLENE</b>     |                |                |                     |                     |                                                                                                 |                                                              |
| 10 gal/min (38 l/min)         | 3/8" NPSM(F)   | 1/2" NPT(F)    | PTFE (Teflon)       | Hytrel <sup>®</sup> | Anti-freeze (Glycol) and windshield wash solution                                               | Fluid dispensing and transfer                                |
| <b>CF10 POLYPROPYLENE/DEF</b> |                |                |                     |                     |                                                                                                 |                                                              |
| 10 gal/min (38 l/min)         | 3/8" NPSM(F)   | 1/2" BSPP(F)   | PTFE (Teflon)       | Hytrel <sup>®</sup> | Diesel exhaust fluid                                                                            | Fluid dispensing and transfer                                |
| <b>CF15 POLYPROPYLENE</b>     |                |                |                     |                     |                                                                                                 |                                                              |
| 15 gal/min (50 l/min)         | 3/8" NPSM(F)   | 1/2" NPT(F)    | PTFE (Teflon)       | Hytrel <sup>®</sup> | Anti-freeze (Glycol) and windshield wash solution                                               | Fluid dispensing, transfer, and evacuation                   |
| <b>CF15 POLYPROPYLENE MIX</b> |                |                |                     |                     |                                                                                                 |                                                              |
| 15 gal/min (50 l/min)         | 2-3/8" NPSM(F) | 1/2" NPT(F)    | PTFE (Teflon)       | Hytrel <sup>®</sup> | Anti-freeze (Glycol) and windshield wash solution                                               | Fluid dispensing, transfer, and evacuation                   |
| <b>CF15 POLYPROPYLENE/DEF</b> |                |                |                     |                     |                                                                                                 |                                                              |
| 15 gal/min (50 l/min)         | 3/8" NPSM(F)   | 1/2" BSPP(F)   | PTFE (Teflon)       | Hytrel <sup>®</sup> | Diesel exhaust fluid                                                                            | Fluid dispensing and transfer                                |
| <b>CF15 ALUMINUM</b>          |                |                |                     |                     |                                                                                                 |                                                              |
| 15 gal/min (50 l/min)         | 3/8" NPSM(F)   | 1/2" NPT(F)    | Buna-N <sup>™</sup> | Buna-N <sup>™</sup> | Light viscosity fluids synthetic, mineral oils, and oil                                         | Fluid dispensing, transfer, and evacuation                   |
| <b>CF30 POLYPROPYLENE</b>     |                |                |                     |                     |                                                                                                 |                                                              |
| 28 gal/min (106 l/min)        | 3/8" NPSM(F)   | 1" NPT(F)      | PTFE (Teflon)       | Hytrel <sup>®</sup> | Anti-freeze (Glycol) and windshield wash solution                                               | Fluid dispensing, transfer, and evacuation                   |
| <b>CF30 POLYPROPYLENE/DEF</b> |                |                |                     |                     |                                                                                                 |                                                              |
| 28 gal/min (106 l/min)        | 3/8" NPSM(F)   | 1" BSPP(F)     | PTFE (Teflon)       | Hytrel <sup>®</sup> | Diesel exhaust fluid                                                                            | Fluid dispensing and transfer                                |
| <b>CF30 ALUMINUM</b>          |                |                |                     |                     |                                                                                                 |                                                              |
| 28 gal/min (106 l/min)        | 3/8" NPSM(F)   | 1" NPT(F)      | Hytrel <sup>®</sup> | Buna-N <sup>™</sup> | Light viscosity fluids synthetic, mineral oils, oil, and diesel                                 | Fluid dispensing, transfer, and evacuation                   |
| <b>CF50 POLYPROPYLENE/DEF</b> |                |                |                     |                     |                                                                                                 |                                                              |
| 53 gal/min (200 l/min)        | 3/8" NPSM(F)   | 1" ANSI FLANGE | Acetal              | Hytrel <sup>®</sup> | Diesel exhaust fluid, Anti-freeze, (Glycol) and windshield wash solution                        | Fluid dispensing, transfer, and evacuation                   |
| <b>CF50 ALUMINUM</b>          |                |                |                     |                     |                                                                                                 |                                                              |
| 53 gal/min (200 l/min)        | 3/8" NPSM(F)   | 1" NPT(F)      | Buna-N <sup>™</sup> | Buna-N <sup>™</sup> | Light viscosity fluids, synthetic, mineral oils, used oil, and diesel                           | Fluid dispensing, transfer, and evacuation                   |
| <b>CF65 ALUMINUM</b>          |                |                |                     |                     |                                                                                                 |                                                              |
| 65 gal/min (250 l/min)        | 1/2" NPSM(F)   | 1 1/2" NPT(F)  | Acetal              | Hytrel <sup>®</sup> | Light viscosity fluids, synthetic, mineral oils, used oil, windshield wash solution, and diesel | High volume transfer, bulk fill, de-watering, and evacuation |



CF10 POLY



CF15 ALU



CF30 ALU



CF50 ALU



CF65 ALU



CF15 POLY



CF15 POLY MIX



CF30 POLY

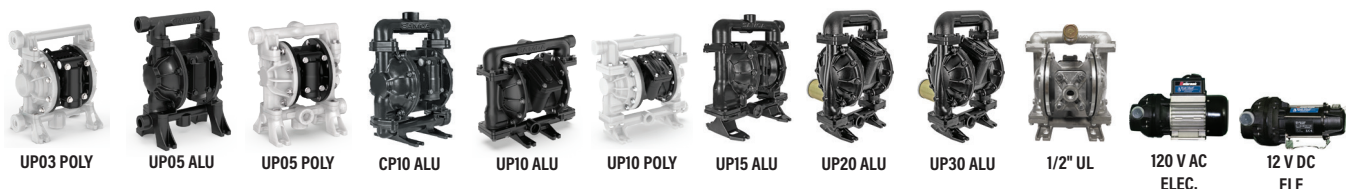


CF50 POLY

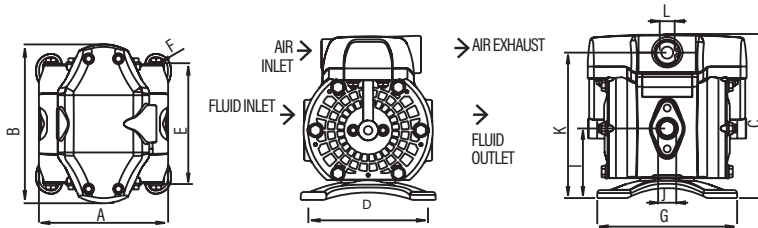
# Diaphragm Pumps Product Selection Matrix

1

| MAX. FREE FLOW                  | AIR INLET    | FLUID IN / OUT | WETTED PARTS        |                                           | RECOMMENDED FLUID TYPES                                                    | RECOMMENDED APPLICATIONS                   |
|---------------------------------|--------------|----------------|---------------------|-------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------|
|                                 |              |                | CHECK BALLS         | DIAPHRAGM                                 |                                                                            |                                            |
| <b>UP03 POLYPROPYLENE</b>       |              |                |                     |                                           |                                                                            |                                            |
| 8.2 gal/min (3 l/min)           | 1/4" NPSM(F) | 3/8" NPT(F)    | PTFE                | Santoprene                                | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>UP05 ALUMINUM</b>            |              |                |                     |                                           |                                                                            |                                            |
| 13.5 gal/min (51 l/min)         | 1/4" NPSM(F) | 1/2" NPT(F)    | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>                       | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>UP05 POLYPROPYLENE</b>       |              |                |                     |                                           |                                                                            |                                            |
| 14.3 gal/min (54 l/min)         | 1/4" NPSM(F) | 1/2" NPT(F)    | Santoprene          | Santoprene                                | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>CP10 ALUMINUM</b>            |              |                |                     |                                           |                                                                            |                                            |
| 14.3 gal/min (54 l/min)         | 1/2" NPSM(F) | 1" NPT(F)      | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>                       | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>UP10 ALUMINUM</b>            |              |                |                     |                                           |                                                                            |                                            |
| 53 gal/min (200 l/min)          | 1/2" NPSM(F) | 1" NPT(F)      | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>                       | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>UP10 POLYPROPYLENE</b>       |              |                |                     |                                           |                                                                            |                                            |
| 53 gal/min (200 l/min)          | 1/2" NPSM(F) | 1" NPT(F)      | Santoprene          | Santoprene                                | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>UP15 ALUMINUM</b>            |              |                |                     |                                           |                                                                            |                                            |
| 35 gal/min (130 l/min)          | 3/8" NPSM(F) | 1 1/2" NPT(F)  | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>                       | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>UP20 ALUMINUM</b>            |              |                |                     |                                           |                                                                            |                                            |
| 170 gal/min (650 l/min)         | 3/4" NPSM(F) | 2" NPT(F)      | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>                       | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>UP30 ALUMINUM</b>            |              |                |                     |                                           |                                                                            |                                            |
| 265 gal/min (1000 l/min)        | 3/4" NPSM(F) | 3" NPT(F)      | Buna-N              | Buna-N                                    | Light viscosity fluids synthetic, mineral, oils, used oil, and anti-freeze | Fluid dispensing, transfer, and evacuation |
| <b>CONVENTIONAL UL ALUMINUM</b> |              |                |                     |                                           |                                                                            |                                            |
| 45 gal/min (170 l/min)          | 1/2" NPT(F)  | 1" NPT(F)      | Nitrile             | Nitrile                                   | Light viscosity fluids synthetic, mineral, oils, used oil, and diesel      | Fluid dispensing, transfer, and evacuation |
| <b>ELECTRIC DIAPHRAGM</b>       |              |                |                     |                                           |                                                                            |                                            |
| 8.5 gal/min (32.18 l/min)       | -            | 1" BSPP(M)     | -                   | Stainless Steel, Viton <sup>®</sup> , PPE | Anti-freeze (Glycol), windshield wash solution and DEF                     | Fluid dispensing, transfer, and evacuation |
| 9.5 gal/min (34.07 l/min)       | -            | 1" BSPP(M)     | -                   | Stainless Steel, Viton <sup>®</sup> , PPE | Anti-freeze (Glycol), windshield wash solution and DEF                     | Fluid dispensing, transfer, and evacuation |



1



| Dimensions inches (MM) |                  |                   |                   |                  |       |                   |                  |          |                   |          |  |
|------------------------|------------------|-------------------|-------------------|------------------|-------|-------------------|------------------|----------|-------------------|----------|--|
| A                      | B                | C                 | D                 | E                | F*    | G                 | I                | J        | K                 | L        |  |
| 5.12"<br>(130 mm)      | 6.3"<br>(160 mm) | 6.38"<br>(162 mm) | 4.13"<br>(105 mm) | 4.8"<br>(122 mm) | 0.31" | 5.51"<br>(140 mm) | 2.76"<br>(70 mm) | 1/2" (F) | 5.71"<br>(146 mm) | 3/8" (F) |  |

\* Diameter of the holes for fasteners in each of the four pump feet. Flange connection: 2 bolts - M 5 (1.61" between centers)

## Anti-freeze (Glycol) Windshield wash solution DEF

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are transferring and dispensing, up to 10 gal/min. They can be used as stand-alone pumps for transfer applications.

### Markets Served

- Car and truck dealers
- Tire shops
- In-plant transfer
- Quick lubes

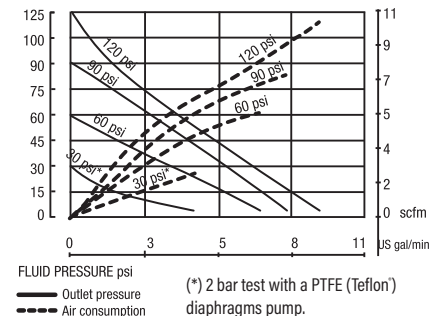
**Pressure relief valve kit 3120-232 for this pump is recommended and not included.**

| TECHNICAL DATA           |                                                                            |                                                                            |
|--------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                          | 1120-029A                                                                  | 1120-034A                                                                  |
| Air inlet                | 3/8" NPSM(F)                                                               | 3/8" NPSM(F)                                                               |
| Fluid inlet port         | 1/2" NPT(F)                                                                | 1/2" BSPP(F)                                                               |
| Fluid outlet port        | 1/2" NPT(F)                                                                | 1/2" BSPP(F)                                                               |
| Max. free flow           | 10 gal/min (38 l/min)                                                      | 10 gal/min (38 l/min)                                                      |
| Air pressure range       | 22 to 102 psi (1.5 to 7 bar)                                               | 22 to 102 psi (1.5 to 7 bar)                                               |
| Solids in suspension     | 1/8" (3 mm)                                                                | 1/8" (3 mm)                                                                |
| Wetted Materials         | PTFE (Teflon), Viton®, Polypropylene, Stainless Steel, Acetal, and Hytrel® | PTFE (Teflon), Viton®, polypropylene, stainless steel, acetal, and Hytrel® |
| Recommended Fluids       | Anti-freeze (Glycol) and windshield wash solution                          | Anti-freeze (Glycol) and windshield wash solution                          |
| Recommended Applications | Fluid dispensing, transfer, and DEF                                        | Fluid dispensing, transfer, and DEF                                        |
| Service Bulletin         | SB 1145                                                                    | SB 1145                                                                    |

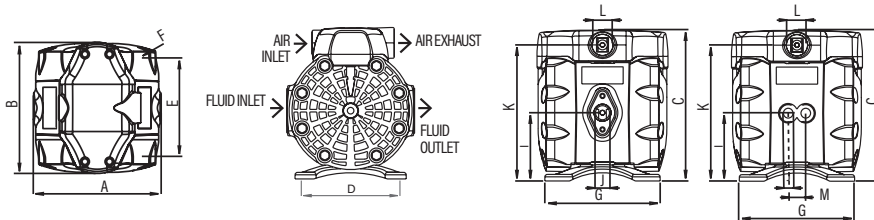
\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| MODELS AVAILABLE | DESCRIPTION                            |
|------------------|----------------------------------------|
| <b>1120-029A</b> | CF10 Polypropylene                     |
| <b>1120-034A</b> | CF10 Polypropylene / DEF               |
| <b>3120-232</b>  | Pressure Relief for Diaphragm 1/2" NPT |

| AIR MOTOR                   | HOUSINGS                                                              |                            |                          | WETTED PARTS    |             |                            |
|-----------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|-----------------|-------------|----------------------------|
| Central Body & Air Chambers | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats     | Valve Balls | Diaphragms Type & Material |
| <b>1120-029A</b>            |                                                                       |                            |                          |                 |             |                            |
| Polypropylene               | NPT threaded ports                                                    | Polypropylene              | Stainless Steel          | Stainless Steel | PTFE        | Hytrel®                    |
| <b>1120-034A</b>            |                                                                       |                            |                          |                 |             |                            |
| Polypropylene               | BSPP threaded ports                                                   | Polypropylene              | Stainless Steel          | Stainless Steel | PTFE        | Hytrel®                    |



# AODD CenterFlo CF15 Mixing



| Dimensions inches |      |      |      |      |      |      |      |          |      |          |      |  |
|-------------------|------|------|------|------|------|------|------|----------|------|----------|------|--|
| A                 | B    | C    | D    | E    | F*   | G    | I    | J        | K    | L        | M    |  |
| 6.14              | 6.30 | 7.28 | 4.13 | 4.80 | 0.31 | 5.54 | 3.27 | 0.5" (F) | 6.54 | 3/8" (F) | 0.94 |  |

\* Diameter of the holes for fasteners in each of the four pump feet.  
Flange connection: 2 bolts - M 5 (1.61" between centers)

| TECHNICAL DATA           |                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Air inlet                | 3/8" NPSM(F)                                                                                                                                                                     |
| Fluid inlet port         | 2 - 3/8" NPT(F)                                                                                                                                                                  |
| Fluid outlet port        | 1/2" NPT(F) & flange                                                                                                                                                             |
| Max. free flow           | 15 gal/min (50 l/min)                                                                                                                                                            |
| Air pressure range       | 22 to 102 psi (1.5 to 7 bar)                                                                                                                                                     |
| Solids in suspension     | 1/8" (3 mm)                                                                                                                                                                      |
| Wetted Materials         | PTFE (Teflon <sup>®</sup> ), Viton <sup>®</sup> , polypropylene, stainless steel, acetal and Hytrel <sup>®</sup>                                                                 |
| Recommended Fluids       | Anti-freeze (Glycol) and windshield wash solution                                                                                                                                |
| Recommended Applications | Dual inlet pumps for 1:1 proportion mixing of fluids with similar viscosity.<br>NOTE: both fluids and their resulting solution must be compatible with the pump wetted materials |
| Service Bulletin         | SB 1145                                                                                                                                                                          |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                   | HOUSINGS                                                              |                            |                          | WETTED PARTS    |             |                               |
|-----------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|-----------------|-------------|-------------------------------|
| Central Body & Air Chambers | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats     | Valve Balls | Diaphragms<br>Type & Material |
| <b>1120-028</b>             |                                                                       |                            |                          |                 |             |                               |
| Polypropylene               | NPT threaded ports                                                    | Polypropylene              | Stainless Steel          | Stainless Steel | PTFE        | Hytrel <sup>®</sup>           |

## Anti-freeze (Glycol) Windshield wash solution DEF

CenterFlo pumps with a dual inlet for 1:1 ratio mixing of fluids with similar viscosities, like windshield wash or anti-freeze with water. All dual inlet pumps have 2 x 2 - 3/8" NPT(F) inlet ports.

### Fluids

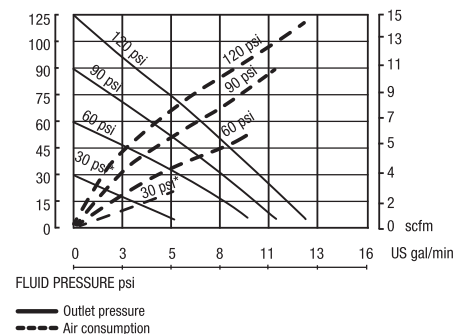
- Anti-freeze (Glycol)
- Windshield wash solution

### Markets Served

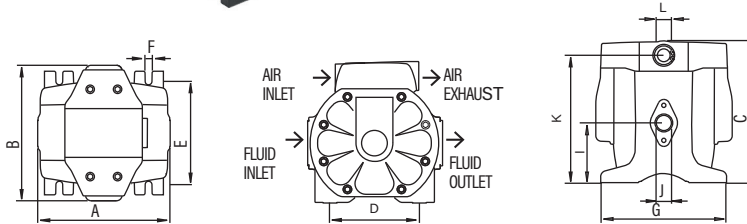
- Car and truck dealers
- Quick lubes

**Pressure relief valve kit 3120-232 for this pump is recommended and not included.**

| MODELS AVAILABLE | DESCRIPTION                            |
|------------------|----------------------------------------|
| <b>1120-028</b>  | CF15 Polypropylene Mixing              |
| <b>3120-232</b>  | Pressure Relief for Diaphragm 1/2" NPT |



(\* ) 2 bar test with a PTFE (Teflon<sup>®</sup>) diaphragms pump.



| Dimensions inches for aluminum pump (MM)      |                   |                   |                   |                   |       |                   |                  |          |                   |          |  |
|-----------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------|-------------------|------------------|----------|-------------------|----------|--|
| A                                             | B                 | C                 | D                 | E                 | F*    | G                 | I                | J        | K                 | L        |  |
| 6.14"<br>(156 mm)                             | 6.30"<br>(160 mm) | 6.57"<br>(167 mm) | 4.13"<br>(105 mm) | 4.80"<br>(122 mm) | 0.31" | 5.75"<br>(146 mm) | 2.76"<br>(70 mm) | 1/2" (F) | 5.91"<br>(150 mm) | 3/8" (F) |  |
| Dimensions inches for polypropylene pump (MM) |                   |                   |                   |                   |       |                   |                  |          |                   |          |  |
| 6.14"<br>(156 mm)                             | 6.30"<br>(160 mm) | 7.28"<br>(185 mm) | 4.13"<br>(105 mm) | 4.80"<br>(122 mm) | 0.31" | 5.54"<br>(141 mm) | 3.27"<br>(84 mm) | 1/2" (F) | 6.54"<br>(167 mm) | 3/8" (F) |  |

\* Diameter of the holes for fasteners in each of the four pump feet.  
Flange connection: 2 bolts - M 5 (1.61" between centers)

| TECHNICAL DATA           |                                                                                             |                                                                                             |                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                          | 1120-023A                                                                                   | 1120-025A                                                                                   | 1120-027                                                                                      |
| Air inlet                | 3/8" NPSM(F)                                                                                | 3/8" NPSM(F)                                                                                | 3/8" NPSM(F)                                                                                  |
| Fluid inlet port         | 1/2" NPT(F) 1120-023A                                                                       | 1/2" BSPP(F)                                                                                | 1/2" NPT(F)                                                                                   |
| Fluid outlet port        | 1/2" NPT(F)                                                                                 | 1/2" BSPP(F)                                                                                | 1/2" NPT(F)                                                                                   |
| Max. Free Flow           | 15 gal/min (50 l/min)                                                                       | 15 gal/min (50 l/min)                                                                       | 15 gal/min (50 l/min)                                                                         |
| Air pressure range       | 22 to 102 psi (1.5 to 7 bar)                                                                | 22 to 102 psi (1.5 to 7 bar)                                                                | 22 to 102 psi (1.5 to 7 bar)                                                                  |
| Solids in suspension     | 1/8" (3 mm)                                                                                 | 1/8" (3 mm)                                                                                 | 1/8" (3 mm)                                                                                   |
| Wetted Materials         | PTFE (Teflon), Viton <sup>®</sup> , Polypropylene, Stainless Steel, and Hytrel <sup>®</sup> | PTFE (Teflon), Viton <sup>®</sup> , Polypropylene, Stainless Steel, and Hytrel <sup>®</sup> | Aluminum, PTFE, Viton <sup>®</sup> , Polypropylene, Buna-N <sup>®</sup> , and Stainless Steel |
| Recommended fluids       | Anti-freeze (Glycol) and windshield wash solution                                           | Diesel exhaust fluid                                                                        | Light viscosity fluids, synthetic, mineral oils, anti-freeze, and oil                         |
| Recommended Applications | Fluid dispensing and transfer                                                               | Fluid dispensing and transfer                                                               | Fluid dispensing and transfer                                                                 |
| Service Bulletin         | SB 1145                                                                                     | SB 1145                                                                                     | SB 1145                                                                                       |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                   | HOUSINGS                                                              |                            |                          | WETTED PARTS  |                     |                               |
|-----------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|---------------|---------------------|-------------------------------|
| Central Body & Air Chambers | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats   | Valve Balls         | Diaphragms<br>Type & Material |
| <b>1120-023A</b>            |                                                                       |                            |                          |               |                     |                               |
| Polypropylene               | N = 1" NPT threaded ports                                             | Polypropylene              | Stainless Steel          | Polypropylene | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>           |
| <b>1120-027</b>             |                                                                       |                            |                          |               |                     |                               |
| Aluminum                    | NPT threaded ports                                                    | Aluminum                   | Carbon Steel             | Aluminum      | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>           |
| <b>1120-025A</b>            |                                                                       |                            |                          |               |                     |                               |
| Polypropylene               | BSPP threaded ports                                                   | Polypropylene              | Stainless Steel          | Polypropylene | Hytrel <sup>®</sup> | Hytrel <sup>®</sup>           |

**Anti-freeze (Glycol)  
Light viscosity fluids  
Windshield wash  
solution  
Synthetic and  
mineral oils  
DEF  
Used anti-freeze**

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are transferring and dispensing up to 15 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps in distribution systems that include hose reels.

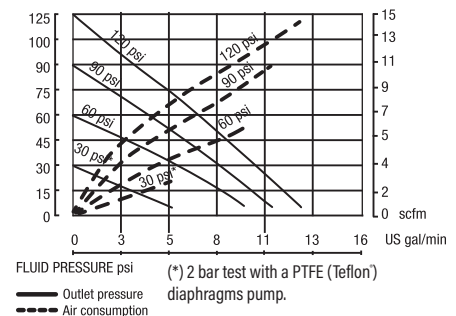
**Markets Served**

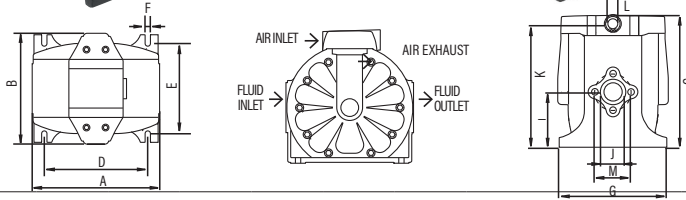
- Car and truck dealers
- Tire shops
- In-plant transfer
- Quick lubes

**Pressure relief valve kit 3120-232 for this pump is recommended and not included.**

| MODELS AVAILABLE | DESCRIPTION                            |
|------------------|----------------------------------------|
| <b>1120-023A</b> | CF15 Polypropylene                     |
| <b>1120-027</b>  | CF15 Aluminum                          |
| <b>1120-025A</b> | CF15 Polypropylene / DEF               |
| <b>3120-232</b>  | Pressure Relief for Diaphragm 1/2" NPT |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.





| Dimensions inches for aluminum pump (MM)      |                   |                   |                   |                   |       |                   |                  |        |                   |          |        |  |
|-----------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------|-------------------|------------------|--------|-------------------|----------|--------|--|
| A                                             | B                 | C                 | D                 | E                 | F*    | G                 | I                | J      | K                 | L        | M      |  |
| 8.50"<br>(216 mm)                             | 7.44"<br>(189 mm) | 8.94"<br>(227 mm) | 6.89"<br>(175 mm) | 6.06"<br>(154 mm) | 0.35" | 7.24"<br>(184 mm) | 3.72"<br>(94 mm) | 1" (F) | 8.27"<br>(210 mm) | 0.37"(F) | 2.44** |  |
| Dimensions inches for polypropylene pump (MM) |                   |                   |                   |                   |       |                   |                  |        |                   |          |        |  |
| 8.50"<br>(216 mm)                             | 8.58"<br>(218 mm) | 9.06"<br>(231 mm) | 6.89"<br>(175 mm) | 6.06"<br>(154 mm) | 0.31" | 7.24"<br>(184 mm) | 3.72"<br>(94 mm) | 1" (F) | 8.33"<br>(212 mm) | 0.37"(F) | 2.44** |  |

\*Diameter of the holes for fasteners in each of the four pump feet. \*\*Flange connection: 4 bolts - M 10 (2.44" between centers).

**TECHNICAL DATA**

|                          | 1120-026A                                                                                                 | 1120-031A                                                                                                 | 1120-040                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Air inlet                | 3/8" NPSM(F)                                                                                              | 3/8" NPSM(F)                                                                                              | 3/8" NPSM(F)                                                                                           |
| Fluid inlet port         | 1" NPT(F)                                                                                                 | 1" BSPP(F)                                                                                                | 1" NPT(F)                                                                                              |
| Fluid outlet port        | 1" NPT(F)                                                                                                 | 1" BSPP(F)                                                                                                | 1" NPT(F)                                                                                              |
| Max. free flow           | 28 gal/min (106 l/min)                                                                                    | 28 gal/min (106 l/min)                                                                                    | 28 gal/min (106 l/min)                                                                                 |
| Air pressure range       | 22 to 102 psi (1.5 to 7 bar)                                                                              | 22 to 102 psi (1.5 to 7 bar)                                                                              | 22 to 102 psi (1.5 to 7 bar)                                                                           |
| Solids in suspension     | 3/16" (4 mm)                                                                                              | 3/16" (4 mm)                                                                                              | 3/16" (4 mm)                                                                                           |
| Wetted Materials         | PTFE (Teflon) <sup>1</sup> , Viton <sup>1</sup> , Polypropylene, Stainless Steel, and Hytrel <sup>1</sup> | PTFE (Teflon) <sup>1</sup> , Viton <sup>1</sup> , Polypropylene, Stainless Steel, and Hytrel <sup>1</sup> | Aluminum, Acetal Teflon <sup>1</sup> , Buna-N <sup>1</sup> , Hytrel <sup>1</sup> , and Stainless Steel |
| Recommended fluids       | Windshield wash solution                                                                                  | Diesel exhaust fluid                                                                                      | Light viscosity fluids, synthetic, mineral oils, and anti-freeze                                       |
| Recommended applications | Fluid dispensing, transfer, and DEF                                                                       | Fluid dispensing, transfer, and DEF                                                                       | Fluid dispensing, transfer, and DEF                                                                    |
| Service Bulletin         | SB 1145                                                                                                   | SB 1145                                                                                                   | SB 1145                                                                                                |

(\*) 2 bar test with a PTFE (Teflon<sup>1</sup>) diaphragms pump.

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                   | HOUSINGS                                                              |                            |                          | WETTED PARTS        |                     |                            |
|-----------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|---------------------|---------------------|----------------------------|
| Central Body & Air Chambers | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats         | Valve Balls         | Diaphragms Type & Material |
| <b>1120-026A</b>            |                                                                       |                            |                          |                     |                     |                            |
| Polypropylene               | NPT threaded ports                                                    | Polypropylene              | Stainless Steel          | Stainless Steel     | PTFE                | Hytrel <sup>1</sup>        |
| <b>1120-040</b>             |                                                                       |                            |                          |                     |                     |                            |
| Aluminum                    | NPT threaded ports                                                    | Aluminum                   | Carbon Steel             | Hytrel <sup>1</sup> | Hytrel <sup>1</sup> | Hytrel <sup>1</sup>        |
| <b>1120-031A</b>            |                                                                       |                            |                          |                     |                     |                            |
| Polypropylene               | BSP threaded ports                                                    | Polypropylene              | Stainless Steel          | Stainless Steel     | PTFE                | Hytrel <sup>1</sup>        |

**Anti-freeze (Glycol)  
Light viscosity fluids  
Windshield wash  
solution  
Synthetic and  
mineral oils  
DEF  
Used anti-freeze**

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

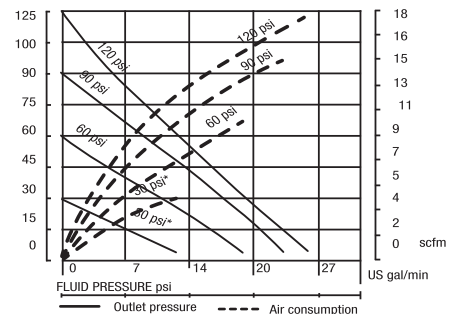
Typical applications are transferring and dispensing up to 28 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps that include hose reels.

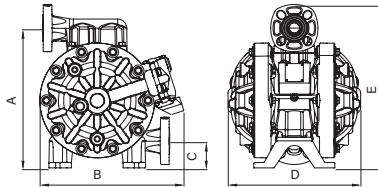
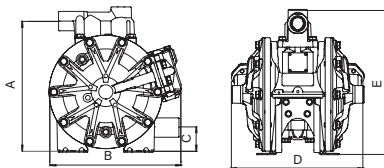
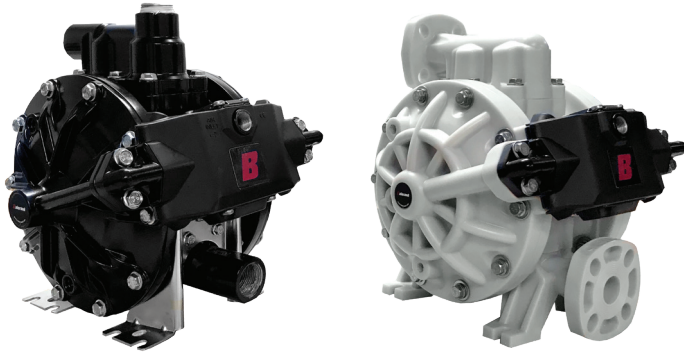
**Markets Served**

- Car and truck dealers
- In-plant transfer
- Lube trucks
- Quick lubes

**Pressure relief valve kit 3120-232 for this pump is recommended and not included.**

| MODELS AVAILABLE | DESCRIPTION                            |
|------------------|----------------------------------------|
| <b>1120-026A</b> | CF30 Polypropylene                     |
| <b>1120-040</b>  | CF30 Aluminum                          |
| <b>1120-031A</b> | CF30 Polypropylene/DEF                 |
| <b>3120-232</b>  | Pressure Relief for Diaphragm 1/2" NPT |





| Dimensions inches (MM) |          |         |          |          |
|------------------------|----------|---------|----------|----------|
| A                      | B        | C       | D        | E        |
| 11"                    | 11"      | 2"      | 11"      | 12.13"   |
| (278 mm)               | (280 mm) | (52 mm) | (281 mm) | (308 mm) |

| Dimensions inches (MM) |          |         |          |          |
|------------------------|----------|---------|----------|----------|
| A                      | B        | C       | D        | E        |
| 12.25"                 | 12.59"   | 2.33"   | 11.66"   | 14.33"   |
| (311 mm)               | (320 mm) | (60 mm) | (295 mm) | (364 mm) |

## Used Oil Used Anti-freeze Synthetic and mineral based motor oil Windshield wash solution

CF50 is a high performance 1" AODD pump with many unique features. The new CF50 utilizes a flow through fluid design that is more air efficient than traditional AODD pumps. Capable of distributing up to 53 gal/min. This equates to higher performance, versatility along with easy serviceability.

- High performance; increased flow rate with minimal air consumption
- Dependability: non-icing air motor
- Versatile; inlet and outlet ports can be oriented to fit the installation/application
- Ease of service; diaphragms and air motor can be serviced with the pump installed without removal

### Markets served

- Car and truck dealers
- Mining and construction
- Fleets
- Railroad and mass transit
- In-plant transfer
- Lube trucks

**Pressure relief valve kit 3120-231 for this pump is recommended and not included.**

**1120-038 includes flange kit for pump mounting.**

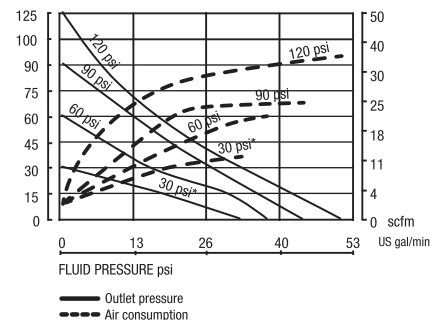
| MODELS AVAILABLE | DESCRIPTION                          |
|------------------|--------------------------------------|
| <b>1120-037</b>  | CF50 Aluminum NPT                    |
| <b>1120-038</b>  | CF50 Polypropylene Flange            |
| <b>3120-231</b>  | Pressure Relief for Diaphragm 1" NPT |

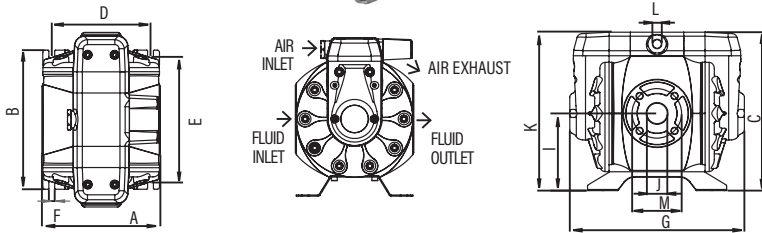
### TECHNICAL DATA

|                          | 1120-037                                                                   | 1120-038                                                               |
|--------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------|
| Air inlet                | 3/8" NPSM(F)                                                               | 3/8" NPSM(F)                                                           |
| Fluid inlet port         | 1" NPT(F)                                                                  | 1" ANSI flange B16.5 150 lb                                            |
| Fluid outlet port        | 1" NPT(F)                                                                  | 1" ANSI flange B16.5 150 lbs                                           |
| Max. free flow           | 53 gal/min (200 l/min)                                                     | 53 gal/min (200 l/min)                                                 |
| Air pressure range       | 22 to 115 psi (1,5 a 8 bar)                                                | 22 to 115 psi (1,5 a 8 bar)                                            |
| Solids in suspension     | 1/8" (3.2 mm)                                                              | 1/8" (3.2 mm)                                                          |
| Wetted Materials         | Aluminum, Hytrel®, Acetal, Buna-N™, and Stainless Steel                    | PTFE (Teflon™), Polypropylene, Stainless Steel, Hytrel®, FKN, and ASTM |
| Recommended Fluids       | Light viscosity fluids, synthetic, mineral oils, anti-freeze, and used oil | Windshield wash solution                                               |
| Recommended Applications | Fluid dispensing, transfer, and evacuation                                 | Fluid dispensing, transfer, and evacuation                             |
| Service Bulletin         | SB 1147                                                                    | SB 1147                                                                |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                   | HOUSINGS                                                              |                            |                          | WETTED PARTS |             |                            |
|-----------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|--------------|-------------|----------------------------|
| Central Body & Air Chambers | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats  | Valve Balls | Diaphragms Type & Material |
| <b>1120-037</b>             |                                                                       |                            |                          |              |             |                            |
| Aluminum                    | NPT threaded ports                                                    | Aluminum                   | Carbon Steel             | Buna-N       | Acetal      | Buna-N                     |
| <b>1120-038</b>             |                                                                       |                            |                          |              |             |                            |
| Polypropylene               | NPT threaded lateral ports                                            | Polypropylene              | Stainless Steel          | Santoprene   | Santoprene  | Santoprene                 |





| Dimensions inches (MM) |                    |                    |                   |                    |       |                    |                   |          |                    |          |        |
|------------------------|--------------------|--------------------|-------------------|--------------------|-------|--------------------|-------------------|----------|--------------------|----------|--------|
| A                      | B                  | C                  | D                 | E                  | F*    | G                  | I                 | J        | K                  | L        | M      |
| 10.39"<br>(264 mm)     | 12.20"<br>(310 mm) | 13.90"<br>(353 mm) | 8.66"<br>(220 mm) | 11.02"<br>(280 mm) | 0.51" | 15.35"<br>(390 mm) | 6.77"<br>(172 mm) | 1.5" (F) | 12.87"<br>(327 mm) | 0.5" (F) | 4.33** |

\* Diameter of the holes for fasteners in each of the four pump feet. \*\* ANSI B16.5 150 lb flange connection: 4 bolts - UNC 1/2" - 13 (3.87" between centers)

**Anti-freeze (Glycol)**  
**Light viscosity fluids**  
**Windshield wash**  
**solution**  
**Synthetic and**  
**mineral oil**

CenterFlo pumps can handle a wide range of fluids used for vehicle service. Typical applications are high volume transferring, bulk fill, and evacuation up to 65 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps that include hose reels.

**Markets Served**

- Car and truck dealers
- Fleets
- Mining and construction
- Railroad and mass transit vehicles
- In-plant transfer
- Lube trucks

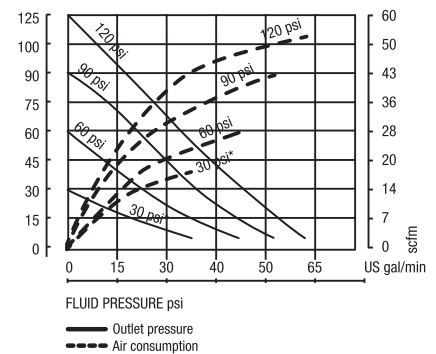
**Pressure relief valve kit 3120-231 for this pump is recommended and not included.**

| TECHNICAL DATA           |                                                |
|--------------------------|------------------------------------------------|
| Air inlet                | 1/2" NPSM(F)                                   |
| Fluid inlet port         | 1 1/2" NPT(F) + ANSI flange B16.5 150 lb       |
| Fluid outlet port        | 1 1/2" NPT(F) + ANSI flange B16.5 150 lb       |
| Max. free flow           | 65 gal/min (250 l/mn)                          |
| Air pressure range       | 22-102 psi (1.5-7 bar)                         |
| Solids in suspension     | 1/4" (6 mm)                                    |
| Wetted Materials         | Aluminum, Acetal, Buna-N™, and Stainless Steel |
| Recommended fluids       | Anti-freeze (Glycol)                           |
| Recommended applications | Fluid dispensing, transfer, and evacuation     |
| Service Bulletin         | SB 1132                                        |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| MODELS AVAILABLE | DESCRIPTION                          |
|------------------|--------------------------------------|
| <b>1120-033</b>  | CF65 Diaphragm Pump                  |
| <b>1120-039</b>  | CF65 Diaphragm Pump Buna-N™          |
| <b>3120-231</b>  | Pressure Relief for Diaphragm 1" NPT |

| AIR MOTOR                   | HOUSINGS                                                              |                            |                          | WETTED PARTS    |             |                            |
|-----------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|-----------------|-------------|----------------------------|
| Central Body & Air Chambers | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats     | Valve Balls | Diaphragms Type & Material |
| <b>1120-033</b>             |                                                                       |                            |                          |                 |             |                            |
| Aluminum                    | NPT threaded ports                                                    | Aluminum                   | Stainless Steel          | Stainless Steel | Buna-N      | Buna-N                     |
| <b>1120-039</b>             |                                                                       |                            |                          |                 |             |                            |
| Aluminum                    | NPT threaded ports                                                    | Aluminum                   | Stainless Steel          | Stainless Steel | Buna-N      | Buna-N                     |



(\* ) 2 bar test with a Hytrel® diaphragms pump.

## Introducing the Pivot Series

# PIVOT

S E R I E S  
UNIVERSAL DESIGN

The new BALCRANK Pivot Universal Pump (UP) combines a Universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and energy efficiency, which exceeds performance expectations.



### ADVANTAGES OF AODD PUMPS

- Pump can run dry with no damage
- Dry self-priming
- Can pump fluids with suspended solids
- Best pump for abrasive, corrosive and shear sensitive fluids
- Air driven pump, no electricity required, no electrical hazard
- Can be submerged completely with no performance or safety issues
- On-demand operation. Pump stops when fluid outlet closes and automatically starts when the fluid outlet opens
- Fluid flow and pressure are fully adjustable with only an air pressure regulator
- No dynamic mechanical seals or packings

### ADDITIONALLY, UP SERIES PUMPS OFFER

**HIGHER EFFICIENCY:** Maximum fluid flow with reduced air consumption, with the lowest air pressure.

**MINIMAL VIBRATION AND PULSATION:** Due to the fast action frictionless Pivot-Shaft Air Valve.

**BOLTED CONSTRUCTION:** Provides improved sealing to eliminate pump leaks. Same size bolts for ease of maintenance.

**EASIER SERVICING:** Components designed for a simpler and easier maintenance, with reduced number of parts.

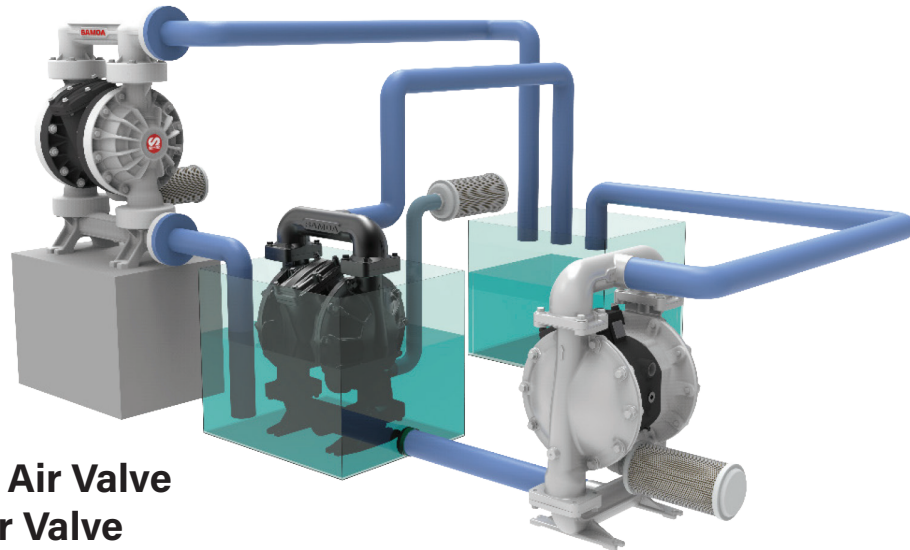
**UNIVERSAL PUMP:** Matches relative dimension of main competitive brands. Direct replacement for existing installed pumps.

**SUPERB ABRASION RESISTANCE:** Optimized fluid paths and manifolds reduce fluid speed and minimize wear caused by abrasion.

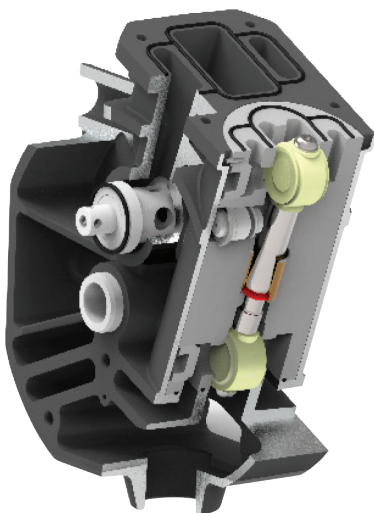
**SILENT OPERATION:** UP pumps air valve produces less noise than competition pumps.

## THE AIR VALVE MAKES THE DIFFERENCE

- With an innovative cartridge design, the air valve assembly can be easily removed, cleaned or replaced if necessary, reducing down time.
- Air valve has the fewest moving parts in the industry: no spool valves and no o-rings. Unique frictionless Pivot-Shaft Air Valve.
- Maximum reliability. Patented Smooth Start Shifter (3<sup>rd</sup>) actuator activates the Pivot-Shaft for reliable operation, even with low air pressure.
- Air valve cartridge manufactured in aluminium for metal pumps and in conductive polypropylene for non-metallic pumps.



### Pivot-shaft Air Valve Modular Air Valve Patented Smooth Start Shifter Reduced Flow Pulsation



**NO PUMP STALLING:** BALCRANK UP Series pumps do not stall even with low air pressure, unlike many competitive pumps. The patented “Smooth Start Shifter” (3<sup>rd</sup>) actuator activates the pivot-shaft of the frictionless pivot-valve just when needed, preventing stalling.

**NO PUMP FREEZING:** Pivot Shaft exhausts the air chambers in suction stroke. Two large evacuation ports act as fast dump valves to exhaust the air from each chamber directly to the atmosphere preventing freezing and pump slowdown.

**SMOOTH FLOW:** The unique ADS, provides the fastest reciprocating action in the industry against conventional spool or sliding block valves. This provides a smoother flow and reduced vibration when compared to competitive AODD pumps.

**EFFICIENT PUMP:** The optimized pivot valve pads and pilot-sensors eliminates internal air leaks, reduces air consumption and provides better flow versus competitors.

**SIMPLE MAINTENANCE:** The ADS used in the UP pumps has the fewest number of moving parts in the Industry. Its modular simple design reduces downtime and simplifies maintenance. The air valve module is fully accessible and can be replaced in few minutes, without removing the pump from service.

**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN



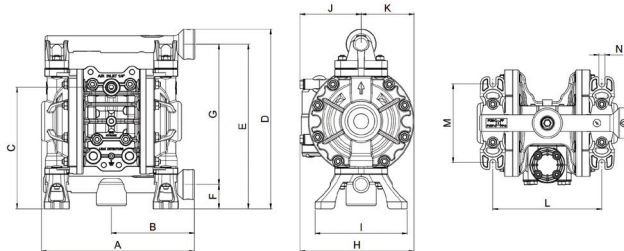
**Anti-freeze (Glycol)  
Windshield wash  
solution  
Synthetic and  
mineral oil**

The Pivot Series combines a universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and efficiency. This pump has been designed for simplified cleaning and maintenance and all Pivot Series pumps are designed for maximum fluid flow, and reduced air consumption.

The UP03 Pivot Series pump transfers fluid up to 8 gal/min. Combining a conventional flow design with a special pivoting air valve for increased reliability. This pump can be used as a stand-alone pump for transfer or as a system pump for fluid distribution.

**Markets Served**

- Car and Truck Dealerships
- Mining and Construction
- Fleets
- In Plant Transfer
- Lube Trucks
- Agriculture / Farm Implement



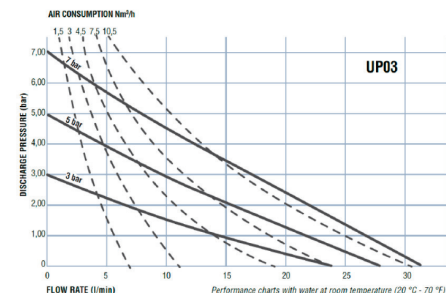
| Dimensions inches (MM) |                   |                   |                   |                   |                   |                   |                 |
|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| A                      | B                 | C                 | D                 | E                 | F                 | G                 |                 |
| 7.95"<br>(202 mm)      | 4.33"<br>(110 mm) | 6.34"<br>(161 mm) | 9.33"<br>(237 mm) | 8.54"<br>(217 mm) | 1.26"<br>(32 mm)  | 7.28"<br>(185 mm) |                 |
| H                      | I                 | J                 | K                 | L                 | M                 | N                 | O               |
| 5.95"<br>(151 mm)      | 4.80"<br>(122 mm) | 3.19"<br>(81 mm)  | 2.76"<br>(70 mm)  | 5.71"<br>(81 mm)  | 4.09"<br>(145 mm) | 6.18"<br>(104 mm) | 0.32"<br>(8 mm) |

| TECHNICAL DATA           |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| Air inlet                | 1/4" NPT(F)                                                               |
| Fluid inlet port         | 3/8" NPT(F)                                                               |
| Fluid outlet port        | 3/8" NPT(F)                                                               |
| Max. free flow           | 8.2 US gal/min (31 l/min)                                                 |
| Air pressure range       | 20 to 100 psi (1.5 to 7 bar)                                              |
| Solids in suspension     | 1/16" (1.6 mm)                                                            |
| Wetted Materials         | Refer to materials table at the bottom of the page                        |
| Recommended Fluids       | Anti-freeze (Glycol), windshield wash solution, lubricants, hydraulic oil |
| Recommended Applications | Small volume transfer, de-wattering and fluid evacuation                  |
| Service Bulletin         | <b>SB 1208</b>                                                            |

| MODELS AVAILABLE | DESCRIPTION                                           |
|------------------|-------------------------------------------------------|
| <b>1120-050</b>  | 3/8" Diaphragm Pump<br>Polypropylene<br>UP03B-NPS-PTA |

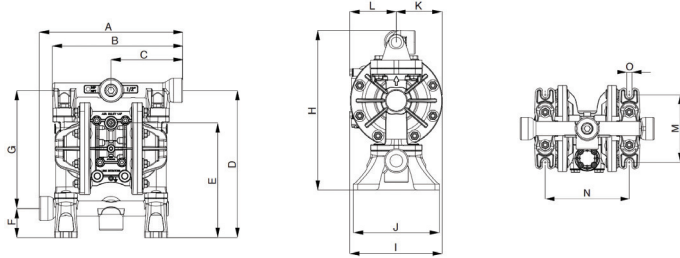
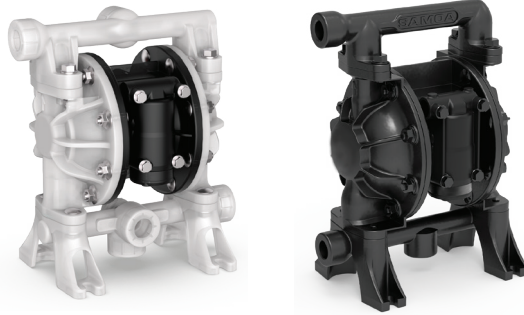
\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                     | HOUSINGS                                                              |                            |                          | WETTED PARTS |             |                            |
|-------------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|--------------|-------------|----------------------------|
| Central Body & Air Chambers   | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats  | Valve Balls | Diaphragms Type & Material |
| <b>1120-050 UP03B-NPS-PTA</b> |                                                                       |                            |                          |              |             |                            |
| B= Polypropylene              | N= NPT threaded ports                                                 | P= Poly                    | S= Stainless Steel       | P= Poly      | T= PTFE     | A= Santoprene              |



# AODD Pivot Series UP05

**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN



| Dimensions inches (MM) |                   |                   |                    |                   |                  |                   |
|------------------------|-------------------|-------------------|--------------------|-------------------|------------------|-------------------|
| A                      | B                 | C                 | D                  | E                 | F                | G                 |
| 9.84"<br>(250 mm)      | 8.98"<br>(228 mm) | 4.92"<br>(125 mm) | 10.12"<br>(257 mm) | 7.87"<br>(200 mm) | 2.01"<br>(51 mm) | 8.11"<br>(206 mm) |

| H                  | I                 | J                 | K                | L                | M                 | N                 | O                |
|--------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|
| 10.95"<br>(278 mm) | 6.34"<br>(161 mm) | 5.91"<br>(150 mm) | 3.15"<br>(80 mm) | 3.19"<br>(81 mm) | 4.92"<br>(125 mm) | 6.18"<br>(157 mm) | 0.39"<br>(10 mm) |

| TECHNICAL DATA           |                                                                |                                                                                           |
|--------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                          | 1120-046                                                       | 1120-047 & 1120-052                                                                       |
| Air inlet                | 1/4" NPT(F)                                                    | 1/4" NPT(F)                                                                               |
| Fluid inlet port         | 1/2" NPT(F)                                                    | 1/2" NPT(F)                                                                               |
| Fluid outlet port        | 1/2" NPT(F)                                                    | 1/2" NPT(F)                                                                               |
| Max. free flow           | 13.5 gal/min (51 l/min)                                        | 14.3 gal/min (54 l/min)                                                                   |
| Air pressure range       | 20 to 100 psi (1.5 to 7 bar)                                   | 20 to 120 psi (1.5 to 8 bar)                                                              |
| Solids in suspension     | 3/32" (2.5 mm)                                                 |                                                                                           |
| Wetted Materials         | Refer to materials table at the bottom of the page             |                                                                                           |
| Recommended Fluids       | Anti-freeze (Glycol), lubricants, used fluid and hydraulic oil | Anti-freeze (Glycol), windshield wash solution, lubricants, used fluid, and hydraulic oil |
| Recommended Applications | Medium volume transfer, de-wattering and fluid evacuation      |                                                                                           |
| Service Bulletin         | SB 1211                                                        |                                                                                           |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                     | HOUSINGS                                                              |                  |                    | WETTED PARTS                  |                             |                                                             |
|-------------------------------|-----------------------------------------------------------------------|------------------|--------------------|-------------------------------|-----------------------------|-------------------------------------------------------------|
| Central Body & Air Chambers   | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral |                  |                    | Fluid Chambers<br>& Manifolds | Hardware Bolts<br>& Inserts | Valve Seats<br>Valve Balls<br>Diaphragms<br>Type & Material |
| <b>1120-046 UP05A-NAC-AHC</b> |                                                                       |                  |                    |                               |                             |                                                             |
| A= Aluminum                   | N= NPT threaded ports                                                 | A= Aluminum      | C= Carbon Steel    | A= Aluminum                   | H= Hytrel                   | C= Hytrel                                                   |
| <b>1120-047 UP05B-NPS-PMA</b> |                                                                       |                  |                    |                               |                             |                                                             |
| B= Polypropylene              | N= NPT threaded ports                                                 | P= Polypropylene | S= Stainless Steel | P= Polypropylene              | M= Santoprene               | A= Santoprene                                               |
| <b>1120-052 UP05B-BPS-PMA</b> |                                                                       |                  |                    |                               |                             |                                                             |
| B = Conductive Polypropylene  | N= NPT threaded ports                                                 | P= Polypropylene | S= Stainless Steel | P= Polypropylene              | H=Hytrel                    | C=Hytrel                                                    |

## Anti-freeze (Glycol) Windshield wash solution Synthetic and mineral oil

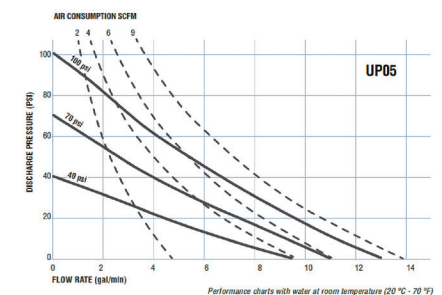
The Pivot Series combines a universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and efficiency. This pump has been designed for simplified cleaning and maintenance and all Pivot Series pumps are designed for maximum fluid flow, and reduced air consumption.

The UP05 Pivot Series pump transfers fluid up to 14 gal/min. Combining a conventional flow design with a special pivoting air valve for increased reliability. This pump can be used as a stand-alone pump for transfer or as a system pump for fluid distribution.

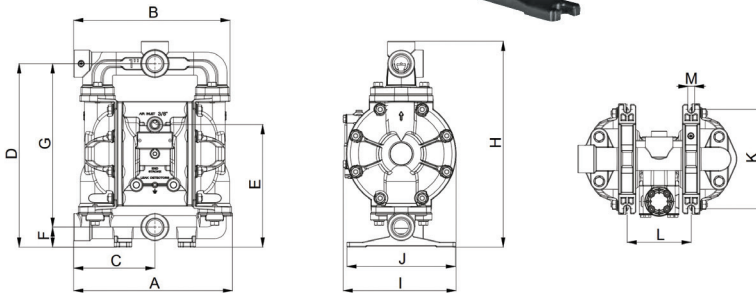
### Markets Served

- Car and Truck Dealerships
- Mining and Construction
- Fleets
- In Plant Transfer
- Lube Trucks
- Agriculture / Farm Implement

| MODELS AVAILABLE | DESCRIPTION                                                      |
|------------------|------------------------------------------------------------------|
| <b>1120-046</b>  | 1/2" Diaphragm Pump<br>Aluminium<br>UP05A-NAC-AHC                |
| <b>1120-047</b>  | 1/2" Diaphragm Pump<br>Polypropylene<br>UP05B-NPS-PMA            |
| <b>1120-052</b>  | 1/2" Diaphragm Pump<br>Conductive Polypropylene<br>UP05B-BPS-PMA |



**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN



**Anti-freeze (Glycol)**  
**Windshield wash**  
**solution**  
**Used oil**  
**Synthetic and**  
**mineral oil**

The Pivot Series combines a universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and efficiency. This pump has been designed for simplified cleaning and maintenance and all Pivot Series pumps are designed for maximum fluid flow, and reduced air consumption.

The CP10 Pivot Series pump has a Compact Design, reduced 3 3/4" from the traditional design and will transfer fluid up to 35 gal/min. Combining a conventional flow design with a special pivoting air valve for increased reliability. This pump can be used as a stand-alone pump for transfer or as a system pump for fluid distribution.

**Markets Served**

- Car and Truck dealerships
- Mining and Construction
- Fleets
- Railroad and mass transit
- In plant transfer
- Lube Trucks
- Agriculture / Farm Implement

| Dimensions inches (MM) |                  |                  |                   |                  |                 |                   |
|------------------------|------------------|------------------|-------------------|------------------|-----------------|-------------------|
| A                      | B                | C                | D                 | E                | F               | G                 |
| 10.08<br>(256 MM)      | 9.92<br>(252 MM) | 5.16<br>(131 MM) | 11.61<br>(295 MM) | 7.75<br>(197 MM) | 1.26<br>(32 MM) | 10.35<br>(263 MM) |
| H                      | I                | J                | K                 | L                | M               |                   |
| 13.03<br>(331 MM)      | 7.16<br>(182 MM) | 6.89<br>(175 MM) | 6.25<br>(159 MM)  | 4.05<br>(103 MM) | .39<br>(10 MM)  |                   |

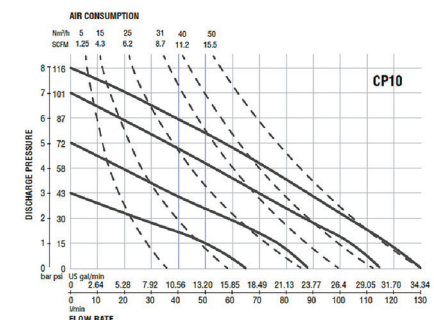
**TECHNICAL DATA**

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| Air inlet                | 3/8" NPT(F)                                                                |
| Fluid inlet port         | 1" NPT(F)                                                                  |
| Fluid outlet port        | 1" NPT(F)                                                                  |
| Max. free flow           | 35 gal/min (130l/min)                                                      |
| Air pressure range       | 20-120 psi (1.5-8 bar)                                                     |
| Solids in suspension     | 1/8" (3.2 mm)                                                              |
| Wetted Materials         | Refer to materials table at the bottom of the page                         |
| Recommended Fluids       | Anti-freeze (Glycol), lubricants, used oil, used fluids, and hydraulic oil |
| Recommended Applications | Medium to large volume transfer, de-wattering and fluid evacuation         |
| Service Bulletin         | SB 1210                                                                    |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

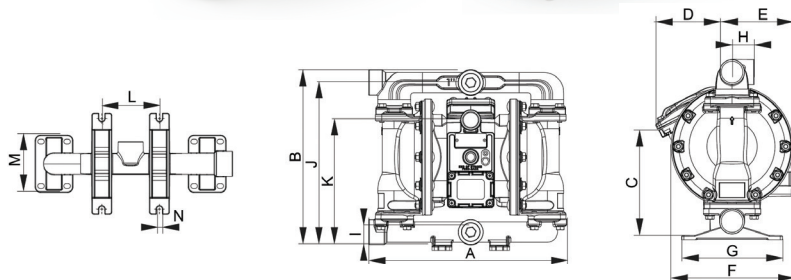
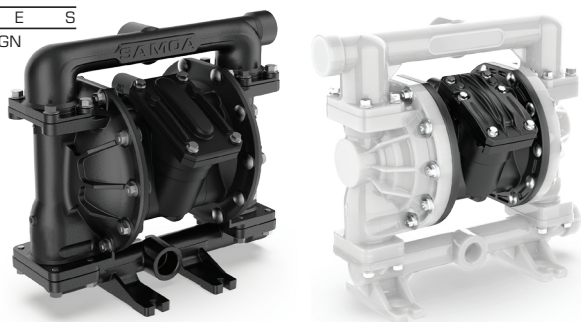
| MODELS AVAILABLE | DESCRIPTION                                    |
|------------------|------------------------------------------------|
| <b>1120-045</b>  | 1" Diaphragm Pump<br>Aluminum<br>CP10A-NAC-HHC |

| AIR MOTOR                     | HOUSINGS                                                              |                            |                          | WETTED PARTS          |                       |                               |
|-------------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|
| Central Body & Air Chambers   | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats           | Valve Balls           | Diaphragms<br>Type & Material |
| <b>1120-049 UPI5A-NAC-HHC</b> |                                                                       |                            |                          |                       |                       |                               |
| A=Aluminum                    | N= NPT threaded ports                                                 | A=Aluminum                 | C=Carbon Steel           | H=Hytrel <sup>1</sup> | H=Hytrel <sup>1</sup> | C=Hytrel <sup>1</sup>         |



# AODD Pivot Series UP10

**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN



| Dimensions inches (MM) |                   |                   |                  |                  |                  |                  |
|------------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|
| A                      | B                 | C                 | D                | E                | F                | G                |
| 13.70<br>(348 MM)      | 12.48<br>(317 MM) | 8.43<br>(214 MM)  | 5.16<br>(131 MM) | 4.17<br>(106 MM) | 8.23<br>(209 MM) | 6.97<br>(177 MM) |
| H                      | I                 | J                 | K                | L                | M                | N                |
| 1.54<br>(39 MM)        | 1.26<br>(32 MM)   | 11.61<br>(295 MM) | 9.33<br>(237 MM) | 4.02<br>(102 MM) | 6.26<br>(159 MM) | 0.39<br>(10 MM)  |

| TECHNICAL DATA           |                                                                            |                                                                                                      |
|--------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                          | 1120-044                                                                   | 1120-048                                                                                             |
| Air inlet                | 1/2" NPT(F)                                                                | 1/2" NPT(F)                                                                                          |
| Fluid inlet port         | 1" NPT(F)                                                                  | 1" NPT(F)                                                                                            |
| Fluid outlet port        | 1" NPT(F)                                                                  | 1" NPT(F)                                                                                            |
| Max. free flow           | 53 gal/min (200 l/min)                                                     | 53 gal/min (200 l/min)                                                                               |
| Air pressure range       | 20-120 psi (1.5-8 bar)                                                     | 20-120 psi (1.5-8 bar)                                                                               |
| Solids in suspension     | 1/4" (6.4 mm)                                                              | 1/4" (6.4 mm)                                                                                        |
| Wetted Materials         | Refer to materials table at the bottom of the page                         |                                                                                                      |
| Recommended Fluids       | Anti-freeze (Glycol), lubricants, used oil, used fluids, and hydraulic oil | Anti-freeze (Glycol), windshield wash solution, lubricants, used oil, used fluids, and hydraulic oil |
| Recommended Applications | Medium to large volume transfer, de-watering and fluid evacuation          |                                                                                                      |
| Service Bulletin         | SB 1156                                                                    |                                                                                                      |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                     | HOUSINGS                                                              |                            | WETTED PARTS             |                  |               |                               |
|-------------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|------------------|---------------|-------------------------------|
| Central Body & Air Chambers   | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats      | Valve Balls   | Diaphragms<br>Type & Material |
| <b>1120-044 UP10A-NAC-HHC</b> |                                                                       |                            |                          |                  |               |                               |
| A= Aluminum                   | N= NPT threaded ports                                                 | A= Aluminum                | C=Carbon Steel           | H=Hytrel         | H=Hytrel      | C=Hytrel                      |
| <b>1120-048 UP10B-TPS-PMA</b> |                                                                       |                            |                          |                  |               |                               |
| B= Polypropylene              | N= NPT threaded ports-lateral                                         | P= Polypropylene           | S= Stainless Steel       | P= Polypropylene | M= Santoprene | A= Santoprene                 |

## Anti-freeze (Glycol) Windshield wash solution Used oil Synthetic and mineral oil

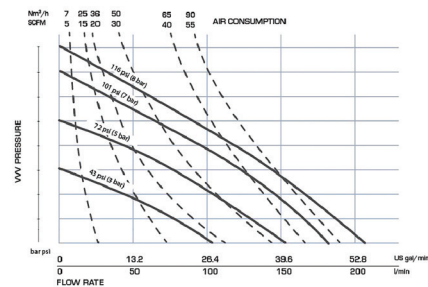
The Pivot Series combines a universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and efficiency. This pump has been designed for simplified cleaning and maintenance and all Pivot Series pumps are designed for maximum fluid flow, and reduced air consumption.

The UP10 Pivot Series pump transfers fluid up to 53 gal/min. Combining a conventional flow design with a special pivoting air valve for increased reliability. This pump can be used as a stand-alone pump for transfer or as a system pump for fluid distribution.

### Markets Served

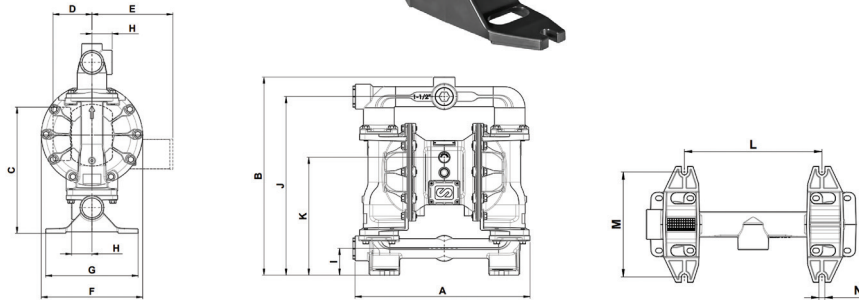
- Car and Truck dealerships
- Mining and Construction
- Fleets
- Railroad and mass transit
- In plant transfer
- Lube Trucks
- Agriculture / Farm Implement

| MODELS AVAILABLE | DESCRIPTION                                         |
|------------------|-----------------------------------------------------|
| 1120-044         | 1" Diaphragm Pump<br>Aluminum<br>UP10A-NAC-HHC      |
| 1120-048         | 1" Diaphragm Pump<br>Polypropylene<br>UP10B-TPS-PMA |



# AODD Pivot Series UP15

**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN



## Anti-freeze (Glycol) Windshield wash solution Used oil Synthetic and mineral oil

The Pivot Series combines a universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and efficiency. This pump has been designed for simplified cleaning and maintenance and all Pivot Series pumps are designed for maximum fluid flow, and reduced air consumption.

The UP15 Pivot Series pump transfers fluid up to 125 gal/min. Combining a conventional flow design with a special pivoting air valve for increased reliability. This pump can be used as a stand-alone pump for transfer or as a system pump for fluid distribution.

### Markets Served

- Car and Truck Dealerships
- Mining and Construction
- Fleets
- Railroad and Mass Transit
- In Plant Transfer
- Lube Trucks
- Agriculture / Farm Implement

| Dimensions inches (MM) |                    |                    |                  |                    |                  |                 |
|------------------------|--------------------|--------------------|------------------|--------------------|------------------|-----------------|
| A                      | B                  | C                  | D                | E                  | F                | G               |
| 179<br>(455.5 MM)      | 20.4<br>(517.5 MM) | 13.5<br>(344 MM)   | 4.2<br>(106 MM)  | 8.7<br>(220 MM)    | 10.9<br>(276 MM) | 9.9<br>(252 MM) |
| H                      | I                  | J                  | K                | L                  | M                | N               |
| 2.2<br>(55 MM)         | 2.8<br>(70 MM)     | 18.4<br>(466.5 MM) | 12.1<br>(308 MM) | 11.8<br>(298.5 MM) | 9<br>(228.6 MM)  | 0.5<br>(13 MM)  |

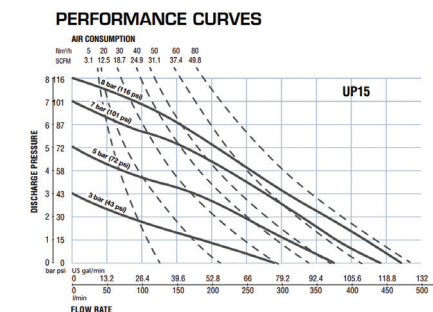
### TECHNICAL DATA

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| Air inlet                | 1/2" NPT(F)                                                                |
| Fluid inlet port         | 1-1/2" NPT(F)                                                              |
| Fluid outlet port        | 1-1/2" NPT(F)                                                              |
| Max. free flow           | 125 gal/min (470 l/min)                                                    |
| Air pressure range       | 22-120 psi (1.5-8 bar)                                                     |
| Solids in suspension     | 1/4" (6.4 mm)                                                              |
| Wetted Materials         | Refer to materials table at the bottom of the page                         |
| Recommended Fluids       | Anti-freeze (Glycol), lubricants, used oil, used fluids, and hydraulic oil |
| Recommended Applications | Very large volume transfer, de-watering and fluid evacuation               |
| Service Bulletin         | SB 1212                                                                    |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

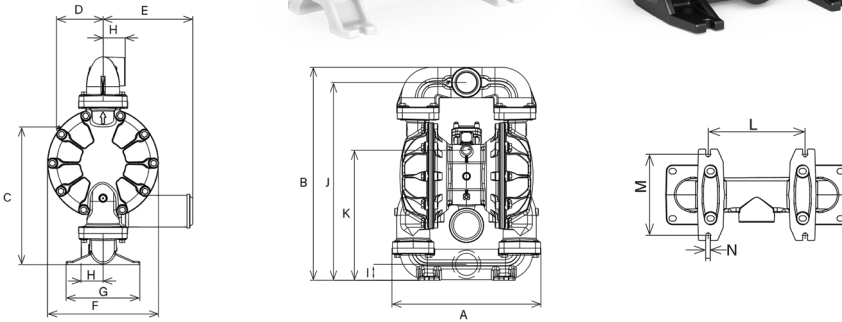
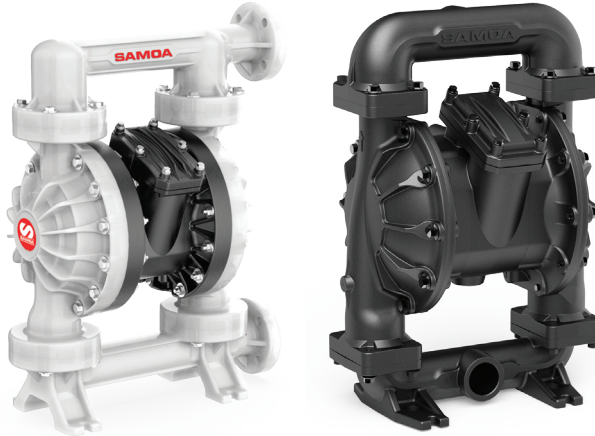
| MODELS AVAILABLE | DESCRIPTION                                        |
|------------------|----------------------------------------------------|
| 1120-049         | 1-1/2" Diaphragm Pump<br>Aluminum<br>UP15A-NAC-HHC |

| AIR MOTOR                     | HOUSINGS                                                              |                            |                          | WETTED PARTS          |                       |                               |
|-------------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|
| Central Body & Air Chambers   | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats           | Valve Balls           | Diaphragms<br>Type & Material |
| <b>1120-049 UP15A-NAC-HHC</b> |                                                                       |                            |                          |                       |                       |                               |
| A=Aluminum                    | N = NPT threaded ports                                                | A=Aluminum                 | C=Carbon Steel           | H=Hytrel <sup>®</sup> | H=Hytrel <sup>®</sup> | C=Hytrel <sup>®</sup>         |



# AODD Pivot Series UP20

**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN



| Dimensions inches (MM) |                   |                   |                   |                   |                   |                  |
|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| A                      | B                 | C                 | D                 | E                 | F                 | G                |
| 18.3"<br>(465 mm)      | 26.5"<br>(673 mm) | 18.9"<br>(480 mm) | 7.3"<br>(185 mm)  | 13.9"<br>(353 mm) | 13.4"<br>(340 mm) | 10"<br>(254 mm)  |
| H                      | I                 | J                 | K                 | L                 | M                 | N                |
| 2.4"<br>(61 mm)        | 1.9"<br>(48 mm)   | 24.8"<br>(630 mm) | 17.3"<br>(439 mm) | 10.1"<br>(307 mm) | 9.1"<br>(231 mm)  | .06"<br>(1.5 mm) |

### TECHNICAL DATA

|                          | 1120-041                                                                   | 1120-051                                                                   |
|--------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Air inlet                | 3/4" NPT(F)                                                                | 3/4" NPT(F)                                                                |
| Fluid inlet port         | 2" NPT(F)                                                                  | 2" NPT(F)                                                                  |
| Fluid outlet port        | 2" NPT(F)                                                                  | 2" NPT(F)                                                                  |
| Max. free flow           | 170 gal/min (650 l/min)                                                    | 172 gal/min (650 l/min)                                                    |
| Air pressure range       | 20-120 psi (1.5-8 bar)                                                     | 20-100 psi (1.5-7 bar)                                                     |
| Solids in suspension     | 1/4" (6.4 mm)                                                              | 1/4" (6.4 mm)                                                              |
| Wetted Materials         | Refer to materials table at the bottom of the page                         | Refer to materials table at the bottom of the page                         |
| Recommended Fluids       | Anti-freeze (Glycol), lubricants, used oil, used fluids, and hydraulic oil | Anti-freeze (Glycol), lubricants, used oil, used fluids, and hydraulic oil |
| Recommended Applications | Very large volume transfer, dewatering and fluid evacuation                | Very large volume transfer, dewatering and fluid evacuation                |
| Service Bulletin         | SB 1206                                                                    | SB 1206                                                                    |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                     | HOUSINGS               |                            |                          | WETTED PARTS         |                      |                            |
|-------------------------------|------------------------|----------------------------|--------------------------|----------------------|----------------------|----------------------------|
| Central Body & Air Chambers   | Fluid Ports / Location | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats          | Valve Balls          | Diaphragms Type & Material |
| <b>1120-041 UP20A-NAC-HHC</b> |                        |                            |                          |                      |                      |                            |
| A=Aluminum                    | N=NPT threaded ports   | A=Aluminum                 | C=Carbon Steel           | H=Hytre <sup>l</sup> | H=Hytre <sup>l</sup> | C=Hytre <sup>l</sup>       |
| <b>1120-051 UP20B-FPS-PHC</b> |                        |                            |                          |                      |                      |                            |
| B*=Conductive Polypropylene   | F=Flanged Ports        | P=Polypropylene            | S=Stainless Steel        | P=Polypropylene      | H=Hytre <sup>l</sup> | C=Hytre <sup>l</sup>       |

**Anti-freeze (Glycol)  
Windshield wash  
solution  
Used oil  
Synthetic and  
mineral oil**

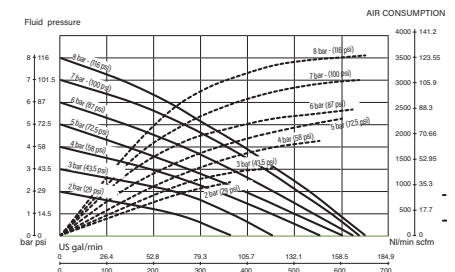
This Pivot Series pump is designed to handle a wide range of fluids in very large volume transfer and fluid evacuation applications.

The UP20 Pivot Series pump transfers fluid up to 170 gal/min. Combining a conventional flow design with a special pivoting air valve for increased reliability. This pump can be used as a stand-alone pump for transfer or as a system pump for fluid distribution.

#### Markets Served

- Mining and construction
- Railroad and mass transit vehicles
- In-plant transfer
- Agriculture/Farm implement
- Lube trucks

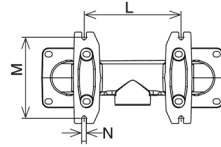
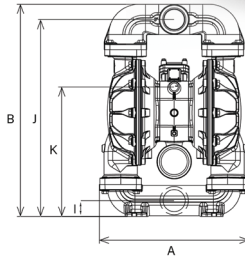
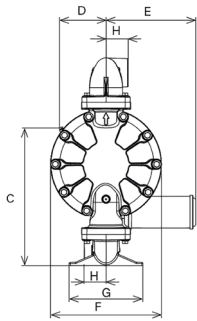
| MODELS AVAILABLE | DESCRIPTION                                         |
|------------------|-----------------------------------------------------|
| <b>1120-041</b>  | 2" Diaphragm Pump<br>Aluminum<br>UP20A-NAC-HHC      |
| <b>1120-051</b>  | 2" Diaphragm Pump<br>Polypropylene<br>UP20B-FPS-PHC |



# AODD Pivot Series UP30

**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN

1



| Dimensions inches (MM) |                   |                   |                   |                   |                   |                   |
|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A                      | B                 | C                 | D                 | E                 | F                 | G                 |
| 22.6"<br>(574mm)       | 32.3"<br>(820 mm) | 21.4"<br>(544 mm) | 7.2"<br>(183 mm)  | 13.9"<br>(353 mm) | 17.2"<br>(437 mm) | 11.4"<br>(290 mm) |
| H                      | I                 | J                 | K                 | L                 | M                 | N                 |
| 3.4"<br>(86 mm)        | 2.4"<br>(61 mm)   | 30"<br>(762 mm)   | 19.7"<br>(500 mm) | 12.1"<br>(307 mm) | 10.1"<br>(256 mm) | .06"<br>(1,5 mm)  |

## Anti-freeze (Glycol) Used oil Synthetic and mineral oil

This Pivot Series pump is designed to handle a wide range of fluids in very large volume transfer and fluid evacuation applications.

The UP30 Pivot Series pump transfers fluid up to 265 gal/min. Combining a conventional flow design with a special pivoting air valve for increased reliability. This pump can be used as a stand-alone pump for transfer or as a system pump for fluid distribution.

### Markets Served

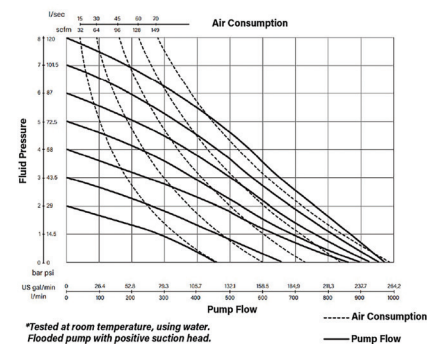
- Mining and construction
- Railroad and mass transit vehicles
- In-plant transfer
- Agriculture/Farm implement
- Lube trucks

| TECHNICAL DATA           |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| Air inlet                | 3/4" NPT(F)                                                                |
| Fluid inlet port         | 3" NPT(F)                                                                  |
| Fluid outlet port        | 3" NPT(F)                                                                  |
| Max. free flow           | 265 gal/min (1000 l/min)                                                   |
| Air pressure range       | 20-120 psi (1.5-8 bar)                                                     |
| Solids in suspension     | 1/2" (12.7 mm)                                                             |
| Wetted Materials         | Refer to materials table at the bottom of the page                         |
| Recommended Fluids       | Anti-freeze (Glycol), lubricants, used oil, used fluids, and hydraulic oil |
| Recommended Applications | Very large volume transfer, de-waterring and fluid evacuation              |
| Service Bulletin         | SB 1207                                                                    |

| MODELS AVAILABLE | DESCRIPTION                                    |
|------------------|------------------------------------------------|
| <b>1120-042</b>  | 3" Diaphragm Pump<br>Aluminum<br>UP30A-BAC-NNG |
| <b>1120-053</b>  | 3" Diaphragm Pump<br>Aluminum<br>UP30A-BAC-HHC |

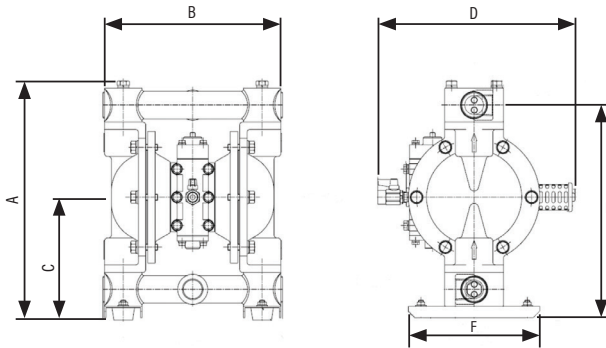
\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                     | HOUSINGS                                                              |                            |                          | WETTED PARTS         |                      |                               |
|-------------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|----------------------|----------------------|-------------------------------|
| Central Body & Air Chambers   | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats          | Valve Balls          | Diaphragms<br>Type & Material |
| <b>1120-042 UP30A-BAC-NNG</b> |                                                                       |                            |                          |                      |                      |                               |
| A=Aluminum                    | N=NPT threaded ports                                                  | A=Aluminum                 | C=Carbon Steel           | N = Nitrile (Buna-N) | N = Nitrile (Buna-N) | G= Nitrile (Buna-N)           |
| <b>1120-053 UP30A-BAC-HHC</b> |                                                                       |                            |                          |                      |                      |                               |
| A=Aluminum                    | N=NPT threaded ports                                                  | A=Aluminum                 | C=Carbon Steel           | H=Hytrel®            | H=Hytrel®            | C=Hytrel®                     |



# AODD 1" UL Aluminum 46 gal/min

1



| Dimensions inches (MM) |                    |                   |                    |                    |                   |
|------------------------|--------------------|-------------------|--------------------|--------------------|-------------------|
| A                      | B                  | C                 | D                  | E                  | F                 |
| 15.04"<br>(382 mm)     | 11.30"<br>(260 mm) | 7.72"<br>(196 mm) | 12.48"<br>(317 mm) | 15.04"<br>(382 mm) | 8.27"<br>(210 mm) |

**Light viscosity fluids**  
**Synthetic and mineral oils**  
**Diesel fuel**  
**Used fluids**

This conventional pumps may be used as stand-alone pumps for transfer applications or as system pumps that include hose reels. Model 1120-015Y is UL79 listed for pumping: Diesel Fuel, No. 4 Fuel Oils (or lighter), Motor Oil, Kerosene, and Water.

**Markets Served**

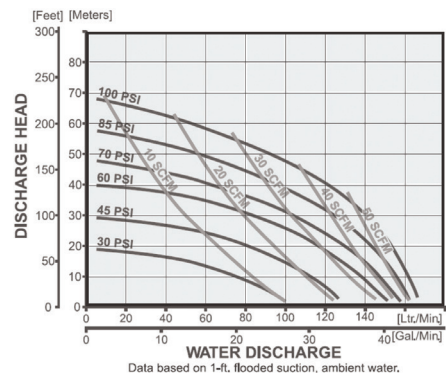
- Car and truck dealers
- Fleets
- Construction
- Mass transit vehicles
- In-plant transfer
- Lube trucks

| TECHNICAL DATA           |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Air inlet                | 3/8" NPT(F)                                                     |
| Fluid inlet port         | 1" NPT(F)                                                       |
| Fluid outlet port        | 1" NPT(F)                                                       |
| Max. free flow           | 46.2 gal/min (175 l/min)                                        |
| Air pressure range       | 20 -100 psi (1.4-6.8 bar)                                       |
| Wetted Materials         | Refer to materials table at the bottom of the page              |
| Recommended fluids       | Light viscosity fluids synthetic, mineral oils, and anti-freeze |
| Recommended applications | Fluid dispensing, transfer, and evacuation.                     |
| Service Bulletin         | SB ----                                                         |

| MODELS AVAILABLE | DESCRIPTION              |
|------------------|--------------------------|
| <b>1120-015Y</b> | 1" UL Aluminum AODD Pump |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

| AIR MOTOR                   | HOUSINGS                                                              |                            |                          | WETTED PARTS |             |                               |
|-----------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------|--------------|-------------|-------------------------------|
| Central Body & Air Chambers | Fluid Ports / Location<br>Multiport manifolds:<br>central and lateral | Fluid Chambers & Manifolds | Hardware Bolts & Inserts | Valve Seats  | Valve Balls | Diaphragms<br>Type & Material |
| <b>1120-015Y</b>            |                                                                       |                            |                          |              |             |                               |
| A = Aluminum                | N = 1" NPT threaded ports                                             | A = Aluminum               | C = Carbon Steel         | N = Nitrile  | N = Nitrile | Z = PTFE                      |



1



1200-020



1200-021

## Anti-freeze (Glycol) Windshield wash solution DEF

Electric diaphragm pump is designed for simple and efficient transfer of anti-freeze, windshield wash solution and diesel exhaust fluid (DEF). Accommodates any system.

### Markets Served

- Car and truck dealers
- Fleets
- Mining and construction
- Railroad and mass transit vehicles
- In-plant transfer
- Lube trucks
- Quick lubes

| TECHNICAL DATA    |                              |                              |
|-------------------|------------------------------|------------------------------|
|                   | 1200-020                     | 1200-021                     |
| Fluid inlet port  | 1" BSPP(M)                   | 1" BSPP(M)                   |
| Fluid outlet port | 1" BSPP(M)                   | 1" BSPP(M)                   |
| Flow Rate         | 8.5 gal/min (32.18 l/min)    | 9.5 gal/min (34.07 l/min)    |
| Working Pressure  | 23 psi (1.6 bar)             | 23 psi (1.6 bar)             |
| Power             | 120 V AC, UL approved        | 12 V DC, UL approved         |
| Wetted Materials  | Stainless Steel, Viton®, PPE | Stainless Steel, Viton®, PPE |
| Service Bulletin  | SB 1129                      | SB 1130                      |

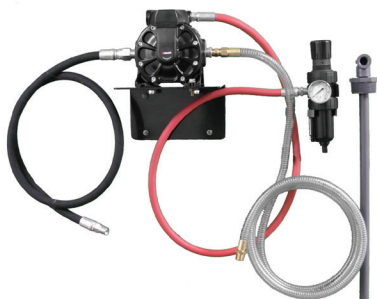
| MODELS AVAILABLE | DESCRIPTION                               |
|------------------|-------------------------------------------|
| <b>1200-020</b>  | 120 V AC Diaphragm pump, UL auto shut-off |
| <b>1200-021</b>  | 12 V DC Diaphragm pump, UL auto shut-off  |

\*\* Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

# AODD Dispense Packages for Anti-freeze

## CF15 Series Wall-Mount Package

Wall mount pumping system for anti-freeze (Glycol) and windshield wash fluid designed for the CF15 series



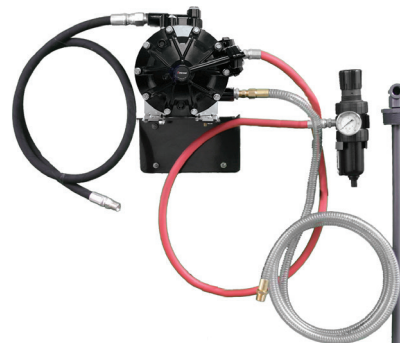
### 1121-028 CF15 WALL-MOUNT PACKAGE FOR ANTI-FREEZE

#### INCLUDES

|                 |                                          |
|-----------------|------------------------------------------|
| <b>1120-027</b> | Aluminum CF15 Diaphragm Pump - 1/2"      |
| <b>8134-005</b> | LP Hose Assembly 5' x 3/8"               |
| <b>3260-035</b> | F/R Auto Drain 3/8" NPT(F)               |
| <b>3120-232</b> | Pressure Relief Kit 1/2" NPT             |
| <b>8249-005</b> | MP Hose Assembly 5' x 1/2"               |
| <b>8145-005</b> | LP Suction Hose Assembly 5' x 1/2"       |
| <b>4412-019</b> | CenterFlo AODD PVC Suction Tube Kit 1/2" |
| <b>4411-025</b> | Mounting Bracket for AODD Pumps          |

## CF50 Series Wall-Mount Package

Wall mount pumping system for anti-freeze (Glycol) and windshield wash fluid designed for the CF50 series



### 1121-029 CF50 WALL-MOUNT PACKAGE FOR ANTI-FREEZE

#### INCLUDES

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>1120-037</b> | Aluminum CF50 Diaphragm Pump - 1"               |
| <b>8134-005</b> | LP Hose Assembly 5' x 3/8"                      |
| <b>3260-035</b> | F/R Auto Drain 3/8" NPT(F)                      |
| <b>3120-231</b> | Pressure Relief Kit 1" NPT                      |
| <b>8264-005</b> | MP Suction Rated Hose Assembly 5' x 3/4" NPT(M) |
| <b>831820</b>   | LP Suction Rated Hose Assembly 4' x 1" NPT(M)   |
| <b>4412-053</b> | CenterFlo AODD PVC Suction Tube Kit 1"          |
| <b>4411-036</b> | Mounting Bracket for CF50 AODD Pumps            |

## CF15 Series 55 Gal Cart Package

for anti-freeze and windshield wash solution



### 1121-030

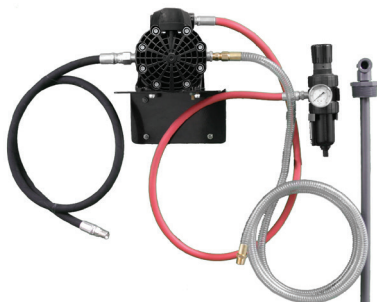
#### INCLUDES

|                 |                                         |
|-----------------|-----------------------------------------|
| <b>1120-027</b> | Aluminum CF15 Diaphragm Pump - 1/2"     |
| <b>8570-006</b> | Suction Hose with Hose Clamps 6' x 3/4" |
| <b>3260-060</b> | F/R Auto Drain 1/4" NPT(F)              |
| <b>8141-030</b> | LP Hose Assembly 30' x 1/2"             |
| <b>4530-054</b> | Drip Tray                               |
| <b>4530-065</b> | Side Mount Bracket                      |
| <b>4320-014</b> | 3 wheel drum cart, 400 lb/55 gal        |
| <b>3330-157</b> | DR Handle, Rigid 1/4" turn for oil      |

# AODD Dispense Packages for Windshield Washer Solution

## CF15 Series Wall-Mount Package

Wall mount pumping system for windshield washer solution, designed for the CF15 series



### 1121-015 CF15 WALL-MOUNT PACKAGE FOR WINDSHIELD WASH SOLUTIONS

#### INCLUDES

|                  |                                          |
|------------------|------------------------------------------|
| <b>1120-023A</b> | Polypropylene CF15 Diaphragm Pump - 1/2" |
| <b>8134-005</b>  | LP Hose Assembly 5' x 3/8"               |
| <b>3260-035</b>  | F/R Auto Drain 3/8" NPT(F)               |
| <b>3120-232</b>  | Pressure Relief Kit 1/2" NPT             |
| <b>8249-005</b>  | MP Hose Assembly 5' x 1/2"               |
| <b>8145-005</b>  | LP Suction Rated Hose Assembly 5' x 1/2" |
| <b>4412-019</b>  | CenterFlo AODD Suction Tube Kit          |
| <b>4411-025</b>  | Mounting Bracket for AODD Pumps          |

## CF50 Series Wall-Mount Package

Wall mount pumping system for windshield washer solution designed for the CF50 series



### 1121-027 CF50 WALL-MOUNT PACKAGE FOR WINDSHIELD WASH SOLUTIONS

#### INCLUDES

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| <b>1120-038</b> | Polypropylene CF50 Diaphragm Pump - 1"                  |
| <b>8134-005</b> | LP Hose Assembly 5' x 3/8"                              |
| <b>3260-035</b> | F/R Auto Drain 3/8" NPT(F)                              |
| <b>3120-231</b> | Pressure Relief Kit 1" NPT                              |
| <b>8264-005</b> | Qty 2 - MP Suction Rated Hose Assembly 5' x 3/4" NPT(M) |
| <b>4412-053</b> | PVC Suction Pipe 1"                                     |
| <b>4411-036</b> | Mounting Bracket for AODD Pumps                         |

| Y-STRAINER - 580 PSI (40 BAR)<br>All strainers have 40 mesh                            |                             | PRESSURE RELIEF KITS                                           |                                                          |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|----------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Y-Strainer                                                                             |                             | 3120-211 1/2" NPT(F)                                           | Pressure Relief Kits                                     |                                  | 3120-232 Pressure Relief for Diaphragm 1/2" NPT 250 psi (17.2 bar)<br>Includes: Valve, Tube 3' x 1/4" and 1/2" nipple |                                                                                                                   |                                                   |
|                                                                                        |                             | 3120-212 3/4" NPT(F)                                           |                                                          |                                  |                                                                                                                       | 3120-231 Pressure Relief for Diaphragm 1" NPT 150 psi (10.3 bar)<br>Includes: Valve, Tube 3' x 1/4" and 1" nipple |                                                   |
|                                                                                        |                             | 3120-213 1" NPT(F)                                             |                                                          |                                  |                                                                                                                       |                                                                                                                   |                                                   |
| SUCTION LINE-STRAINER - 150 PSI (10 BAR)<br>All strainers have 20 mesh                 |                             | SUCTION TUBES                                                  |                                                          |                                  |                                                                                                                       |                                                                                                                   |                                                   |
| Suction Line-Strainer                                                                  |                             | 3120-219 1" NPT(F)                                             | Suction Tubes                                            |                                  | 4412-044 1" NPT(M) x 18" - 30° 16 gal drum                                                                            |                                                                                                                   |                                                   |
|                                                                                        |                             | 3120-125 Replacement screen for strainer 3120-219              |                                                          |                                  | 4412-046 1" NPT(M) x 26" - 30° 55 gal drum                                                                            |                                                                                                                   |                                                   |
| <b>DRY BREAK COUPLER &amp; NIPPLE RATED</b><br>for vacuum or up to 3,000 psi (207 bar) |                             |                                                                |                                                          |                                  |                                                                                                                       |                                                                                                                   |                                                   |
| Dry Break Coupler & Nipple                                                             |                             | 4140-016 Coupler 3/4" NPT(F)                                   |                                                          |                                  | 4412-045 1" NPT(M) x 21" - 30° 165/280 gal bench tank                                                                 |                                                                                                                   |                                                   |
|                                                                                        |                             | 4140-050 Coupler 1" NPT(F)                                     |                                                          |                                  | 4412-048 1" NPT(M) x 30" - 30° 165/280 gal bench tank double tap                                                      |                                                                                                                   |                                                   |
|                                                                                        |                             | 4140-023 Nipple 3/4" NPT(F)                                    |                                                          |                                  | 4412-047 1" NPT(M) x 28" - 30° 250 gal bench tank double tap                                                          |                                                                                                                   |                                                   |
|                                                                                        |                             | 4140-051 Nipple 1" NPT(F)                                      |                                                          |                                  | 4412-051 1" NPT(M) x 42" - 30° 275/330 gal horizontal obround double tap                                              |                                                                                                                   |                                                   |
| <b>CAM-LOCK COUPLER &amp; NIPPLE RATED</b><br>for 250 psi (17 bar)                     |                             |                                                                |                                                          |                                  |                                                                                                                       |                                                                                                                   |                                                   |
| Cam-Lock Coupler & Nipple                                                              |                             | 4140-044 Coupler 3/4" NPT(F)                                   |                                                          |                                  | PVC Suction Kits for Anti-freeze                                                                                      |                                                                                                                   | 4412-019 CenterFlo AODD PVC Suction Tube Kit 1/2" |
|                                                                                        |                             | 4140-017 Coupler 1" NPT(F)                                     |                                                          |                                  |                                                                                                                       |                                                                                                                   | 4412-053 CenterFlo AODD PVC Suction Tube Kit 1"   |
|                                                                                        |                             | 4140-054 Nipple 3/4" NPT(F)                                    | <b>BRACKETS</b>                                          |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|                                                                                        |                             | 4140-055 Nipple 1" NPT(F)                                      | Wall-mount bracket                                       |                                  | 4411-016 Wall Mount Bracket for conventional diaphragm pumps                                                          |                                                                                                                   |                                                   |
|                                                                                        | 4140-045 Nipple 3/4" NPT(M) | 4411-025 Wall Mount Bracket for CF10, 15, & 30 diaphragm pumps |                                                          |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|                                                                                        |                             |                                                                | 4140-018 Nipple 1" NPT(M)                                | Ball valve fully ported no bleed |                                                                                                                       | 4411-036 Mounting Bracket for CF50 AODD Pumps                                                                     |                                                   |
|                                                                                        |                             |                                                                | 4140-046 Dust Cap 3/4" NPT(F)                            |                                  |                                                                                                                       | 4411-040 Mounting Bracket for UP05, CP10, UP 10 AODD Pumps                                                        |                                                   |
|                                                                                        |                             | 4140-019 Dust Cap 1" NPT(F)                                    | <b>VALVES</b>                                            |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|                                                                                        |                             | 4140-052 Dust Plug 3/4" NPT(M)                                 | Shut-off valve bleed type for air                        |                                  |                                                                                                                       |                                                                                                                   | 3230-018 Ball valve, 1/4", 580 psi (40 bar)       |
|                                                                                        |                             | 4140-053 Dust Plug 1" NPT(M)                                   |                                                          |                                  |                                                                                                                       |                                                                                                                   | 3230-019 Ball valve, 3/8", 580 psi (40 bar)       |
|                                                                                        |                             |                                                                |                                                          |                                  |                                                                                                                       | 3230-020 Ball valve, 1/2", 580 psi (40 bar)                                                                       |                                                   |
|                                                                                        |                             |                                                                | 3230-021 Ball valve, 3/4", 580 psi (40 bar)              |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|                                                                                        |                             |                                                                | 3230-022 Ball valve, 1", 580 psi (40 bar)                |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|                                                                                        |                             |                                                                | 3230-009 Shut-off valve, 3/8" NPT(F), 200 psi (13.7 bar) |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|                                                                                        |                             |                                                                | 3230-010 Shut-off valve, 1/2" NPT(F), 200 psi (13.7 bar) |                                  |                                                                                                                       |                                                                                                                   |                                                   |
|                                                                                        |                             |                                                                | 3230-011 Shut-off valve, 3/4" NPT(F), 200 psi (13.7 bar) |                                  |                                                                                                                       |                                                                                                                   |                                                   |



# AODD Pumps Repair Kits

1

**CF10**

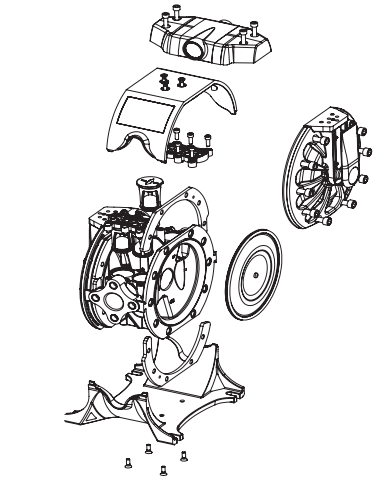
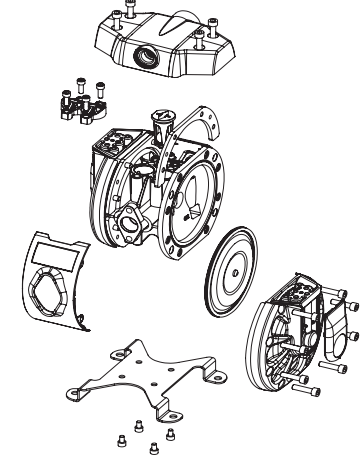
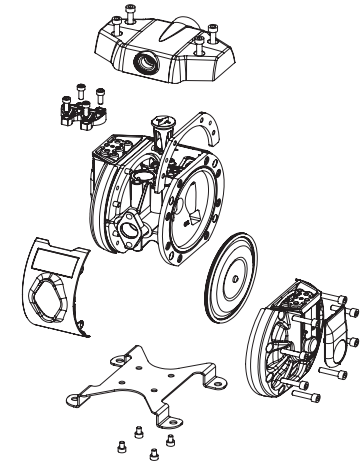
| PUMP MODELS                                   | KIT NUMBER    | DESCRIPTION                                 |
|-----------------------------------------------|---------------|---------------------------------------------|
| <b>CF10 AODD PUMPS - 1120-029A, 1120-034A</b> |               |                                             |
| 1120-029A, 1120-034A                          | <b>833732</b> | Air valve kit                               |
| 1120-029A, 1120-034A                          | <b>833207</b> | Stroke sensor kit                           |
| 1120-029A, 1120-034A                          | <b>833208</b> | Check Ball kit                              |
| 1120-029A                                     | <b>833735</b> | Ball Seats, O-rings, ball guides            |
| 1120-029A, 1120-034A                          | <b>833209</b> | Ball Seats, O-rings, ball guides            |
| 1120-029A, 1120-034A                          | <b>833337</b> | Diaphragms kit (After to 2/1/2013)          |
| 1120-029A                                     | <b>833331</b> | Bushing, seal, push rod (Prior to 2/1/2013) |
| 1120-029A, 1120-034A                          | <b>833336</b> | Bushing, seal, push rod (After to 2/1/2013) |

**CF15**

| PUMP MODELS                                             | KIT NUMBER    | DESCRIPTION                                    |
|---------------------------------------------------------|---------------|------------------------------------------------|
| <b>CF15 AODD PUMPS - 1120-023A, 1120-025A, 1120-027</b> |               |                                                |
| 1120-023A, 1120-025A, 1120-027                          | <b>833732</b> | Air valve kit                                  |
| 1120-023A, 1120-025A, 1120-027                          | <b>833207</b> | Stroke sensor kit                              |
| 1120-023A, 1120-025A                                    | <b>833208</b> | Check Ball kit                                 |
| 1120-027                                                | <b>833236</b> | Check Ball kit                                 |
| 1120-023A, 1120-025A                                    | <b>833735</b> | Ball Seats, O-rings, ball guides               |
| 1120-027                                                | <b>833330</b> | Ball Seats, O-rings, ball guides               |
| 1120-023, 1120-025A, 1120-027                           | <b>833209</b> | Ball Seats, O-rings, ball guides               |
| 1120-023, 1120-025A                                     | <b>833210</b> | Bushing, seal, push rod (Prior to 2/1/2013)    |
| 1120-023, 1120-025A                                     | <b>833332</b> | Bushing, seal, push rod (After to 2/1/2013)    |
| 1120-027                                                | <b>833333</b> | Diaphragms kit (After to 2/1/2013)             |
| 1120-023, 1120-025A, 1120-027                           | <b>833211</b> | Diaphragms kit (Prior to 2/1/2013)             |
| 1120-023, 1120-025A, 1120-027                           | <b>833338</b> | Diaphragms kit (After to 2/1/2013)             |
| 1120-023, 1120-025A, 1120-027                           | <b>833341</b> | Retrofit Kit (Updates pumps prior to 2/1/2013) |

**CF30**

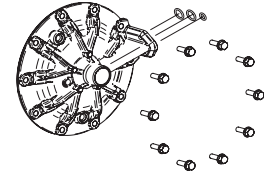
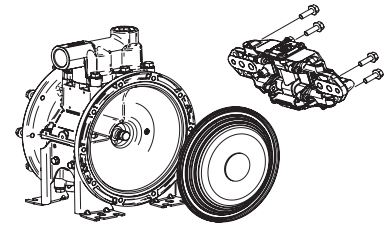
| PUMP MODELS                                                     | KIT NUMBER    | DESCRIPTION                                    |
|-----------------------------------------------------------------|---------------|------------------------------------------------|
| <b>CF30 AODD PUMPS 1120-024, 1120-026A, 1120-031A, 1120-040</b> |               |                                                |
| 1120-040, 1120-024, 1120-026A, 1120-031A                        | <b>833733</b> | Air valve kit                                  |
| 1120-040, 1120-024, 1120-026A, 1120-031A                        | <b>833207</b> | Stroke sensor kit                              |
| 1120-026A, 1120-031A                                            | <b>833233</b> | Check Ball kit                                 |
| 1120-040, 1120-024                                              | <b>833213</b> | Check Ball kit                                 |
| 1120-026A, 1120-031A                                            | <b>833234</b> | Ball Seats, O-rings, ball guides               |
| 1120-040, 1120-024                                              | <b>833214</b> | Ball Seats, O-rings, ball guides               |
| 1120-026A, 1120-031A                                            | <b>833335</b> | Bushing, seal, push rod (After to 2/1/2013)    |
| 1120-040, 1120-024                                              | <b>833334</b> | Bushing, seal, push rod (After to 2/1/2013)    |
| 1120-040, 1120-024, 1120-026A, 1120-031A                        | <b>833339</b> | Diaphragms kit (After to 2/1/2013)             |
| 1120-040, 1120-024, 1120-026A, 1120-031A                        | <b>833342</b> | Retrofit Kit (Updates pumps prior to 2/1/2013) |



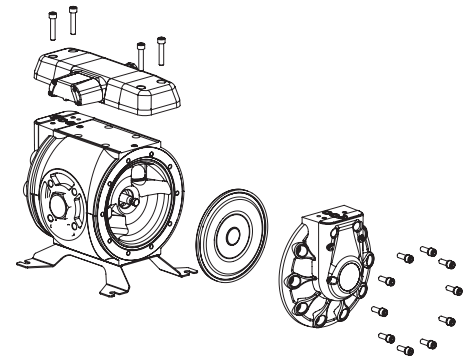
# AODD Pumps Repair Kits

1

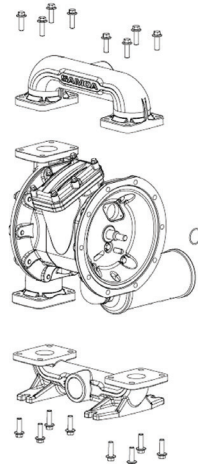
| CF50                               |            |                                            |
|------------------------------------|------------|--------------------------------------------|
| PUMP MODELS                        | KIT NUMBER | DESCRIPTION                                |
| CF50 AODD PUMPS 1120-037, 1120-038 |            |                                            |
| 1120-037                           | 833692     | Air Valve Kit                              |
| 1120-038                           | 833693     | Stroke sensor kit                          |
| 1120-037                           | 833698     | Bushing, seal, push rod (Acetal/Buna-N/SS) |
| 1120-038                           | 833699     | Bushing, seal, push rod (PTFE/Viton/SS)    |
| 1120-037                           | 833696     | Ball Seats/Seal (Buna-N)                   |
| 1120-038                           | 833697     | Ball Seats/Seal (PP/Viton)                 |
| 1120-037                           | 833694     | Check Ball kit (Acetal)                    |
| 1120-038                           | 833695     | Check Ball kit (PTFE)                      |
| 1120-037                           | 833700     | Diaphragms kit (Buna-N)                    |
| 1120-038                           | 833436     | Diaphragms kit (Hytrel)                    |



| CF65                                 |            |                                       |
|--------------------------------------|------------|---------------------------------------|
| PUMP MODELS                          | KIT NUMBER | DESCRIPTION                           |
| CF65 AODD PUMPS - 1120-033, 1120-039 |            |                                       |
| 1120-033                             | 833431     | Air valve kit                         |
| 1120-033                             | 833432     | Stroke sensor kit                     |
| 1120-033                             | 833433     | Check Ball kit                        |
| 1120-033                             | 833434     | Ball Seats, O-rings, ball guides      |
| 1120-033                             | 833435     | Bushing, seal, push rod               |
| 1120-033                             | 833436     | Diaphragms kit                        |
| 1120-039                             | 833709     | Kit, Balls, Buna-N, CF65              |
| 1120-039                             | 833710     | Kit, Ball seat/seal/cage, CF65 Buna-N |



| UP20 & UP30 AODD PUMPS |            |                            |
|------------------------|------------|----------------------------|
| PUMP MODELS            | KIT NUMBER | DESCRIPTION                |
| 1120-041               |            |                            |
| 1120-041               | 833886     | Air valve kit              |
| 1120-041               | 833888     | Air sensors                |
| 1120-041               | 833889     | Air motor, central body    |
| 1120-041               | 833890     | Air motor, lateral body    |
| 1120-041               | 833891     | Air exhaust                |
| 1120-041               | 833892     | Push rod                   |
| 1120-041               | 833893     | Diaphragm Cover            |
| 1120-041               | 833894     | Inlet manifold             |
| 1120-041               | 833895     | Outlet manifold            |
| 1120-041               | 833896     | Kit, Ball seat, Hytrel     |
| 1120-041               | 833897     | Kit, Ball, Hytrel          |
| 1120-041               | 833898     | Kit, Diaphragm kit, Hytrel |



| CONVENTIONAL AODD PUMP          |            |                  |
|---------------------------------|------------|------------------|
| PUMP MODELS                     | KIT NUMBER | DESCRIPTION      |
| ALUMINUM AODD PUMPS - 1120-015Y |            |                  |
| 1120-015S                       | 832973     | Air seal kit     |
| 1120-015S                       | 832973     | Air assembly kit |
| 1120-015S                       | 832974     | Fluid seal kit   |







Classic Hose Reel Stand Application



# HOSE REELS

|                                               |     |
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# Hose Reels

## Product Selection Matrix

2

| MAX. HOSE                              | CONSTRUCTION                                                                                                   | RECOMMENDED MARKETS                                                       | RECOMMENDED APPLICATIONS                                                                                                   | MOUNTING                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>AXIS AIR &amp; WATER</b>            |                                                                                                                |                                                                           |                                                                                                                            |                                   |
| 50' x 3/8"                             | All steel spool and Pedestal                                                                                   | Small to medium dealerships<br>Tire shops<br>Transmission shops           | Air/Water - low pressure                                                                                                   | Ceiling, wall, cabinet            |
| <b>EVOLUTION</b>                       |                                                                                                                |                                                                           |                                                                                                                            |                                   |
| 50' x 1/2"                             | Composite spool<br>Steel pedestal<br>Dual ball-bearings                                                        | Grease<br>Small to medium dealerships<br>Tire shops<br>Transmission shops | Air/Water - high pressure, hot water<br>Oil - medium pressure<br>Grease - high pressure<br>Enclosed models                 | Ceiling, floor, wall, truck, tank |
| <b>CLASSIC</b>                         |                                                                                                                |                                                                           |                                                                                                                            |                                   |
| 50' x 1/2"<br>30' x 3/4"               | All steel spool and Pedestal                                                                                   | Grease<br>Auto dealerships<br>Tire shops<br>Transmission Shops            | Air/Water - low pressure<br>Oil - medium pressure<br>DEF - medium pressure<br>Grease - high pressure<br>Enclosed models    | Ceiling, floor, wall, tank        |
| <b>PREMIUM</b>                         |                                                                                                                |                                                                           |                                                                                                                            |                                   |
| 60' x 1/2"                             | All steel spool and Pedestal<br>Double arm<br>Dual ball-bearings                                               | Truck shops<br>Municipalities<br>Railroad<br>Mining<br>Lube trucks        | Air/Water - low pressure<br>Oil - medium pressure<br>Grease - high pressure                                                | Ceiling, floor, wall, truck, tank |
| <b>EXTENDED VOLUME (EV)</b>            |                                                                                                                |                                                                           |                                                                                                                            |                                   |
| 50' x 3/4"<br>65' x 3/8"<br>65' x 1/2" | All steel spool and Pedestal<br>Heavy duty<br>High capacity<br>Double arm<br>Dual ball-bearings                | Truck shops<br>Municipalities<br>Railroad<br>Mining<br>Lube trucks        | Air/Water - low pressure<br>DEF - low pressure<br>Diesel - low pressure<br>Oil - medium pressure<br>Grease - high pressure | Ceiling, floor, wall, truck, tank |
| <b>EXTENDED VOLUME EXTRA (EVX)</b>     |                                                                                                                |                                                                           |                                                                                                                            |                                   |
| 50' x 1"<br>75' x 3/4"<br>100' x 1/2"  | All steel spool and Pedestal<br>Heavy duty<br>High capacity<br>Double arm<br>Dual ball-bearings                | Truck shops<br>Municipalities<br>Railroad<br>Mining<br>Lube trucks        | Air/Water - low pressure<br>Diesel - low pressure<br>Evacuation - low pressure<br>Oil - medium pressure                    | Floor, truck, tank                |
| <b>EXTENDED VOLUME+ (EVX+)</b>         |                                                                                                                |                                                                           |                                                                                                                            |                                   |
| 50' x 1 1/2"                           | All steel spool and Pedestal<br>Heavy duty<br>High capacity<br>Double arm<br>Dual ball-bearings<br>Dual spring | Truck shops<br>Municipalities<br>Railroad<br>Mining<br>Lube trucks        | Air/Water - low pressure<br>Diesel - low pressure<br>Oil - medium pressure                                                 | Floor, truck, tank                |



AXIS



EVOLUTION



CLASSIC



PREMIUM



EXTENDED VOLUME (EV)



EXTENDED VOLUME EXTRA (EVX)



EXTENDED VOLUME + (EVX+)

# Hose Reels

## Axis Air/Water Reel



## Air & Water

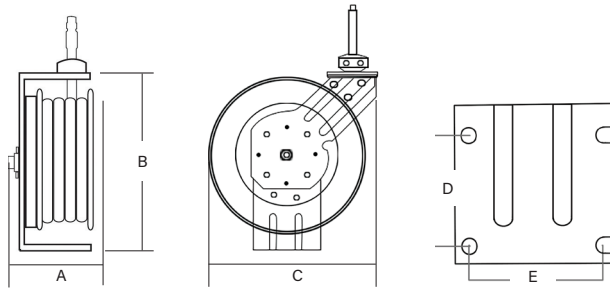
### Steel "AXIS" Hose Reel: quality and value in a sturdy design

- Easy to install – light weight, compact design, will fit in small spaces.
- Five-position outlet arm - for use with ceiling, wall, cabinet mount.
- Proven design - excess spring torque assures reliable hose return
- Built to last - thick wall fluid swivel and hub; stamped steel rims, arms, and base
- Air hose, made from durable nylon exterior. Ball stop and 3' connection hose included.
- Powder coat black finish – better corrosion resistance



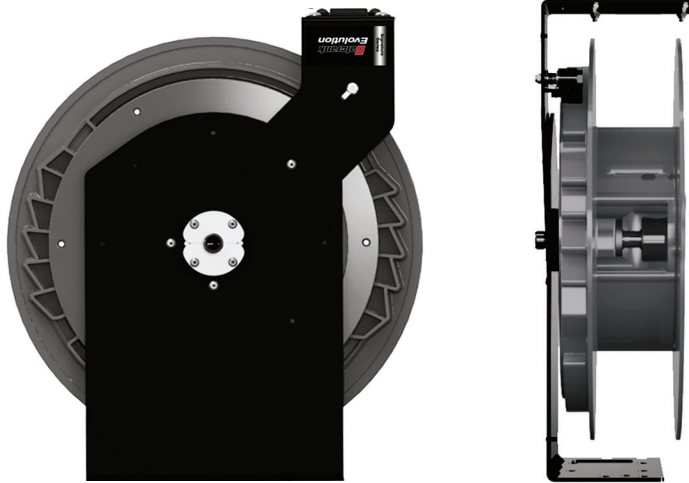
| MODELS AVAILABLE | DESCRIPTION                                             |
|------------------|---------------------------------------------------------|
| 2130-002         | Air & Water 300 psi (21 bar) for delivery<br>50' x 3/8" |

| TECHNICAL DATA     |                                   |
|--------------------|-----------------------------------|
| Low Pressure Reel  |                                   |
| Fluid inlet port   | 1/2" NPT(F)                       |
| Fluid outlet port  | 1/4" NPT(F)                       |
| Hose outlet thread | 1/4" NPT(M)                       |
| Max pressure       | 300 psi (21 bar)                  |
| Wetted Parts       | Approved for use with air & water |



| Dimensions inches (MM) |                    |                 |                |                |
|------------------------|--------------------|-----------------|----------------|----------------|
| A                      | B                  | C               | D              | E              |
| 6.7"<br>(171 mm)       | 18.70"<br>(475 mm) | 18"<br>(458 mm) | 4"<br>(102 mm) | 5"<br>(127 mm) |

2



## Air & Water Anti-freeze Oil Grease

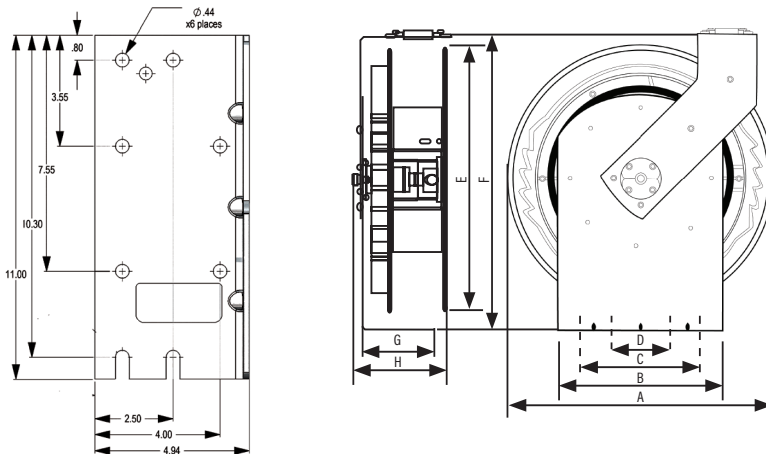
### Evolution Hose Reel: an Evolution in Design and Performance

Lightweight but extremely rugged: steel pedestal and arm and dual ball-bearings. The Evolution is a solid performer. The Evolution combines design, performance and reliability with the right features and benefits for today's customers.

**Evolution series reels have a narrow and lightweight design; includes hose, hose stop and a 2.5' connecting hose.**

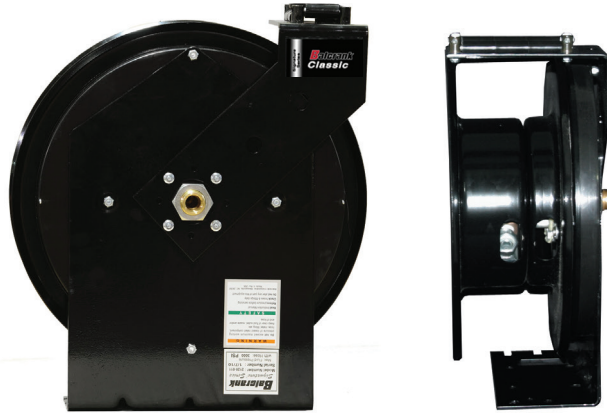
| MODELS AVAILABLE                                                                                             | DESCRIPTION                                              | REPLACEMENT HOSE |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|
| Air & water low pressure 300 psi (21 bar) for delivery of air, water, windshield wash fluid, and anti-freeze |                                                          |                  |
| 2140-021                                                                                                     | Bare reel - up to 50' Hose                               |                  |
| 2140-007                                                                                                     | 30' x 3/8" ID hose                                       | 8136-030         |
| 2140-008                                                                                                     | 50' x 3/8" ID hose                                       | 8136-050         |
| 2140-010                                                                                                     | 30' x 1/2" ID hose                                       | 8141-030         |
| 2140-011                                                                                                     | 50' x 1/2" ID hose                                       | 8141-050         |
| Oil medium pressure 2,750 psi (190 bar) for delivery of lubricants                                           |                                                          |                  |
| 2140-002                                                                                                     | Bare reel - up to 50' Hose                               |                  |
| 2140-013                                                                                                     | 30' x 1/2" ID hose                                       | 8241-030         |
| 2140-014                                                                                                     | 50' x 1/2" ID hose                                       | 8241-050         |
| Grease high pressure 5,000 psi (345 bar) for delivery of grease                                              |                                                          |                  |
| 2140-005                                                                                                     | Bare reel - up to 50' Hose                               |                  |
| 2140-019                                                                                                     | 30' x 3/8" ID hose                                       | 8332-030         |
| 2140-020                                                                                                     | 50' x 3/8" ID hose                                       | 8332-050         |
| Water high pressure 2,900 psi (200 bar) for delivery of hot water up to 302° F (150° C)                      |                                                          |                  |
| 2140-003                                                                                                     | Bare reel - up to 50' Hose, hose inlet port 3/8" NPT (F) |                  |

| TECHNICAL DATA              |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| Low & Medium Pressure Reels |                                                                                      |
| Fluid inlet port            | 1/2" NPT(F) swivel                                                                   |
| Fluid outlet port           | 1/2" NPT(F) swivel                                                                   |
| Hose outlet thread          | 1/4" NPT(M) for 3/8" ID Hoses                                                        |
|                             | 1/2" NPT(M) for 1/2" ID Hoses                                                        |
| Wetted materials            | Low Pressure - Brass, Acetal & Buna-N™<br>Medium pressure - Steel (plated) & Buna-N™ |
| High Pressure Reels         |                                                                                      |
| Fluid inlet port            | 3/8" NPT(F) swivel                                                                   |
| Fluid outlet port           | 3/8" NPT(F) swivel                                                                   |
| Hose outlet thread          | 1/4" NPT(M) for 3/8" ID Hoses                                                        |
| Wetted materials            | Nickel Plated Steel, Hardened steel and Polyurethane, Stainless Steel, Viton™        |
| Service bulletin            | SB 2025                                                                              |



| Dimensions inches (MM) |                 |                  |                  |
|------------------------|-----------------|------------------|------------------|
| A                      | B               | C                | D                |
| 18"<br>(458 mm)        | 11"<br>(280 mm) | 9.5"<br>(242 mm) | 4"<br>(102 mm)   |
| E                      | F               | G                | H                |
| 18"<br>(458 mm)        | 20"<br>(508 mm) | 5"<br>(127 mm)   | 6.5"<br>(166 mm) |

# Hose Reels Classic



**Air & Water  
Anti-freeze  
Windshield wash  
Oil  
Grease  
Diesel**

2

The Classic Hose Reel has been the standard of reliability for over a decade. This solid, all steel hose reel is preferred for general duty, automotive dealerships, and service garages. Proven performance and reliable operation.

All Classic series reels include hose, hose stop and a 2.5' connecting hose.

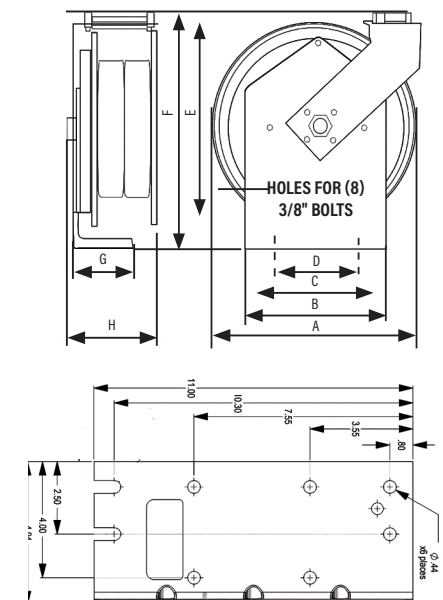
| Standard color   | Special color 2-week lead-time |      |      |      |        |      | Custom color 6-week lead time                    |
|------------------|--------------------------------|------|------|------|--------|------|--------------------------------------------------|
| Semi-gloss Black | Wt                             | Gr   | Bl   | Rd   | Silver | Yl   | based on specifications supplied by the customer |
| -                | -002                           | -003 | -004 | -005 | -006   | -007 |                                                  |

| MODELS AVAILABLE                                                                                         | DESCRIPTION                            | REPLACEMENT HOSE |
|----------------------------------------------------------------------------------------------------------|----------------------------------------|------------------|
| Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, anti-freeze and windshield wash*** |                                        |                  |
| 2120-016                                                                                                 | Bare reel - up to 30' Hose             | -                |
| 2120-017                                                                                                 | Bare reel - up to 50' Hose             | -                |
| 2120-008                                                                                                 | 30' x 1/2" ID hose                     | 8241-030         |
| 2120-014                                                                                                 | 30' x 3/8" ID hose                     | 8136-030         |
| 2120-005                                                                                                 | 40' x 3/8" ID hose                     | 8136-040         |
| 2120-015                                                                                                 | 50' x 3/8" ID hose                     | 8136-050         |
| 2120-021*                                                                                                | 30' x 3/8" ID hose. No arm             | 8141-030         |
| 2120-020                                                                                                 | 50' x 1/2" ID hose                     | 8141-050         |
| 2120-025                                                                                                 | 30' x 3/8" ID hose-Nitrogen            | 8135-030         |
| 2120-026                                                                                                 | 50' x 3/8" ID hose-Nitrogen            | 8135-050         |
| Oil medium pressure 2,750 psi (190 bar) for delivery of lubricants                                       |                                        |                  |
| 2120-016                                                                                                 | Bare reel - up to 30' Hose             | -                |
| 2120-017                                                                                                 | Bare reel - up to 50' Hose             | -                |
| 2120-011                                                                                                 | 30' x 1/2" ID hose                     | 8241-030         |
| 2120-012                                                                                                 | 40' x 1/2" ID hose                     | 8241-040         |
| 2120-013                                                                                                 | 50' x 1/2" ID hose                     | 8241-050         |
| 2120-022*                                                                                                | 16' x 1/2" ID hose. No arm             | 8241-016         |
| Grease High pressure 5,000 psi (345 bar) for delivery of grease                                          |                                        |                  |
| 2120-018                                                                                                 | Bare reel - up to 30' Hose             | -                |
| 2120-019                                                                                                 | Bare reel - up to 50' Hose             | -                |
| 2120-003                                                                                                 | 30' x 3/8" ID hose                     | -                |
| 2120-004                                                                                                 | 40' x 3/8" ID hose                     | 8331-040         |
| 2120-007                                                                                                 | 50' x 3/8" ID hose                     | 8331-050         |
| 2120-001                                                                                                 | 30' x 1/4" ID hose                     | 8321-030         |
| 2120-002                                                                                                 | 40' x 1/4" ID hose                     | 8321-040         |
| 2120-006                                                                                                 | 50' x 1/4" ID hose                     | 8321-050         |
| DEF (Diesel Exhaust Fluid) Low pressure 150 psi (10 bar) for delivery of DEF                             |                                        |                  |
| 2400-006                                                                                                 | Bare reel, up to 3' x 3/4" ID BSPP (F) | -                |
| 2400-007                                                                                                 | 16' x 3/4" ID BSPP (M)                 | 8569-016         |
| 2400-008                                                                                                 | 20' x 3/4" ID BSPP (M)                 | 8569-020         |
| 2400-009                                                                                                 | 30' x 3/4" ID BSPP (M)                 | 8569-030         |

\* Classic reel less outlet arm for workbench mounting

| Dimensions inches (MM) |              |              |             |              |              |             |                  |
|------------------------|--------------|--------------|-------------|--------------|--------------|-------------|------------------|
| A                      | B            | C            | D           | E            | F            | G           | H                |
| 16" (407 mm)           | 11" (280 mm) | 9.5" (242mm) | 4" (102 mm) | 16" (407 mm) | 20" (508 mm) | 5" (127 mm) | 6-8" (153-204mm) |

| TECHNICAL DATA              |                                         |
|-----------------------------|-----------------------------------------|
| Low & Medium Pressure Reels |                                         |
| Fluid inlet port            | 1/2" NPT(F) swivel                      |
| Fluid outlet port           | 1/2" NPT(F) swivel                      |
| Hose outlet thread          | 1/4" NPT(M) for 3/8" ID Hoses           |
|                             | 1/2" NPT(M) for 1/2" ID Hoses           |
| Wetted materials            | Plated steel, Brass, bronze and Buna-N  |
| High Pressure Reels         |                                         |
| Fluid inlet port            | 3/8" NPT(F) swivel                      |
| Fluid outlet port           | 3/8" NPT(F) swivel                      |
| Hose outlet thread          | 1/4" NPT(M) for 1/4" ID Hoses           |
|                             | 1/4" NPT(M) for 3/8" ID Hoses           |
| Wetted materials            | Plated steel, hardened steel and Buna-N |
| Service Bulletin            | SB 2002<br>SB 2002-A (No arm reels)     |





**Air & Water  
Anti-freeze  
Windshield wash  
Oil  
Grease  
DEF**

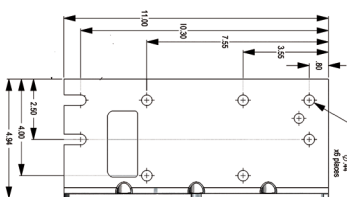
**Premium Hose Reel for the toughest shop environments**

Today's heavy-duty hose reel market demands an innovative use of components that provide long life, improved serviceability and superior structural design. Our Premium reel incorporates advanced design features that ensures long life in the toughest environments while reducing overall weight. **All Premium series reels have a narrow design; includes hose, hose stop and a 2.5' connecting hose.**

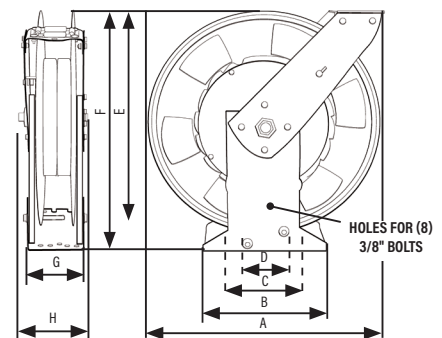
| MODELS AVAILABLE                                                                                        | DESCRIPTION                     | REPLACEMENT HOSE |
|---------------------------------------------------------------------------------------------------------|---------------------------------|------------------|
| Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, anti-freeze and windshield wash** |                                 |                  |
| 2111-048                                                                                                | Bare reel - up to 50' Hose      | -                |
| 2111-049                                                                                                | Bare reel - up to 60' Hose      | -                |
| 2111-031                                                                                                | 30' x 3/8" ID hose              | 8136-030         |
| 2111-032                                                                                                | 40' x 3/8" ID hose              | 8136-040         |
| 2111-033                                                                                                | 50' x 3/8" ID hose              | 8136-050         |
| 2111-034                                                                                                | 60' x 3/8" ID hose (50' + 10')* | 8136-060         |
| 2111-035                                                                                                | 40' x 1/2" ID hose              | 8141-040         |
| 2111-036                                                                                                | 50' x 1/2" ID hose              | 8141-050         |
| 2111-037                                                                                                | 60' x 1/2" ID hose (50' + 10')* | 8141-060         |
| Oil Medium Pressure 2,750 psi (190 bar) for delivery of lubricants                                      |                                 |                  |
| 2111-027                                                                                                | Bare reel - up to 50' Hose      | -                |
| 2111-028                                                                                                | Bare reel - up to 60' Hose      | -                |
| 2111-038                                                                                                | 30' x 1/2" ID hose              | 8241-030         |
| 2111-039                                                                                                | 40' x 1/2" ID hose              | 8241-040         |
| 2111-040                                                                                                | 50' x 1/2" ID hose              | 8241-050         |
| 2111-041                                                                                                | 60' x 1/2" ID hose (50' + 10')* | 8241-060         |
| Grease High-pressure 5,000 psi (345 bar) for delivery of grease                                         |                                 |                  |
| 2111-029                                                                                                | Bare reel - up to 50' Hose      | -                |
| 2111-030                                                                                                | Bare reel - up to 60' Hose      | -                |
| 2111-045                                                                                                | 40' x 3/8" ID hose              | 8332-040         |
| 2111-046                                                                                                | 50' x 3/8" ID hose              | 8332-050         |
| 2111-047                                                                                                | 60' x 3/8" ID hose (50' + 10')* | 8332-060         |
| 2111-042                                                                                                | 40' x 1/4" ID hose              | 8323-040         |
| 2111-043                                                                                                | 50' x 1/4" ID hose              | 8323-050         |
| 2111-044                                                                                                | 60' x 1/4" ID hose (50' + 10')* | 8323-060         |

| TECHNICAL DATA              |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| Low & Medium Pressure Reels |                                                                                  |
| Fluid inlet port            | 1/2" NPT(F) swivel                                                               |
| Fluid outlet port           | 1/2" NPT(F) swivel                                                               |
| Hose outlet thread          | 1/2" NPT(M) for 3/8" ID Hoses                                                    |
|                             | 1/2" NPT(M) for 1/2" ID Hoses                                                    |
| Wetted Materials            | Low pressure - Brass, Acetal & Buna-N<br>Med. pressure - Steel (plated) & Buna-N |
| High Pressure Reels         |                                                                                  |
| Fluid inlet port            | 3/8" NPT(F) swivel                                                               |
| Fluid outlet port           | 3/8" NPT(F) swivel                                                               |
| Hose outlet thread          | 1/4" NPT(M) for 1/4" ID Hoses                                                    |
|                             | 1/4" NPT(M) for 3/8" ID Hoses                                                    |
| Wetted Materials            | Nickel plated steel, hardened steel and Polyethylene                             |
| Wetted Materials            | Hardened steel and Polyurethane                                                  |
| Service Bulletin            | SB 2027                                                                          |

\* 50' on spool with 10' hanging



| Dimensions inches (MM) |                |                 |                |
|------------------------|----------------|-----------------|----------------|
| A                      | B              | C               | D              |
| 20.5" (521 mm)         | 11" (280 mm)   | 9 1/2" (242 mm) | 4" (102 mm)    |
| E                      | F              | G               | H              |
| 20.25" (515 mm)        | 21.5" (547 mm) | 5.5" (140 mm)   | 6.75" (172 mm) |



# Hose Reels Extended Volume (EV)

**Air & Water**  
**Anti-freeze**  
**Oil**  
**Grease**  
**Diesel**  
**DEF**

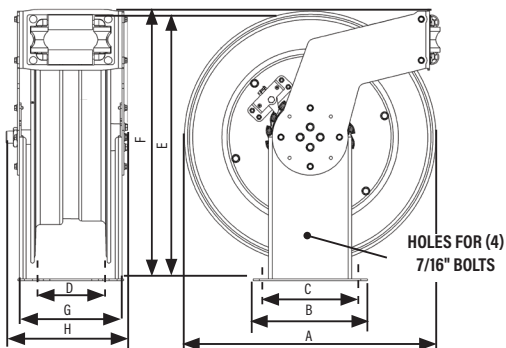


The Extended Volume, EV Series hose reels are designed for high volume heavy-duty applications where large hose diameters are required for increased flow. The EV reels will accommodate up to 50' of 3/4" ID hose or 65' of 1/2" ID hose. Perfect for heavy-duty fleet, construction, mining and industrial applications.

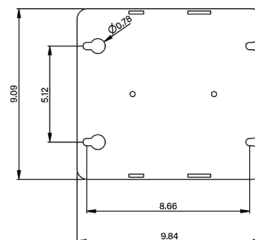
All EV series reels include hose, hose stop and a 2.5' connecting hose.

| MODELS AVAILABLE                                                                        | DESCRIPTION                                | REPLACEMENT HOSE |
|-----------------------------------------------------------------------------------------|--------------------------------------------|------------------|
| Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water and anti-freeze    |                                            |                  |
| 2310-033                                                                                | Bare reel - up to 65' x 1/2" or 50' x 3/4" | -                |
| 2310-027                                                                                | 65' x 1/2" ID hose                         | 8141-065         |
| 2310-028                                                                                | 50' x 3/4" ID hose                         | 8161-050         |
| Oil Medium Pressure for delivery of lubricants                                          |                                            |                  |
| 2310-033                                                                                | Bare reel - up to 65' x 1/2" or 50' x 3/4" | -                |
| 2310-031                                                                                | 50' x 3/4" ID hose 1,950 psi (135 bar)     | 8264-050         |
| 2310-029                                                                                | 65' x 1/2" ID hose 2,750 psi (190 bar)     | 8250-065         |
| Grease High pressure 5,000 psi (345 bar) for delivery of grease                         |                                            |                  |
| 2310-048                                                                                | Bare reel - up to 65' x 3/8"               | -                |
| 2310-046                                                                                | 65' x 3/8" ID hose                         | 8332-065         |
| Diesel Low Pressure 50 psi (3 bar) for delivery of diesel                               |                                            |                  |
| 2310-033                                                                                | Bare reel - up to 65' x 1/2" or 50' x 3/4" | -                |
| 2310-032                                                                                | 50' x 3/4" ID hose                         | 8466-050         |
| Diesel Exhaust Fluid Low Pressure 150 psi (10 bar) for delivery of diesel exhaust fluid |                                            |                  |
| 2400-010                                                                                | Bare reel - up to 65' x 1/2" or 50' x 3/4" | -                |
| 2400-011                                                                                | 50' x 3/4" ID hose                         | 8569-050         |

| TECHNICAL DATA                      |                                                      |
|-------------------------------------|------------------------------------------------------|
| Diesel, Low & Medium Pressure Reels |                                                      |
| Fluid inlet port                    | 3/4" NPT(F) swivel                                   |
| Fluid outlet port                   | 3/4" NPT(F) swivel                                   |
| Hose outlet thread                  | 1/2" NPT(M) for 1/2" ID Hoses                        |
|                                     | 3/4" NPT(M) for 3/4" ID Hoses                        |
| Wetted Materials                    | Nickel plated steel and Buna-N                       |
| Service Bulletin                    | SB 2028                                              |
| Low Pressure DEF Reels              |                                                      |
| Fluid inlet port                    | 3/4" BSPP(F) swivel                                  |
| Fluid outlet port                   | 3/4" BSPP(F) swivel                                  |
| Hose outlet thread                  | 3/4" BSPP (M) for 3/4" ID Hoses                      |
| Wetted Materials                    | Stainless Steel, Polypropylene, & Viton®             |
| Service Bulletin                    | SB 2028                                              |
| High Pressure Reels                 |                                                      |
| Fluid inlet port                    | 3/8" NPT(F) swivel                                   |
| Fluid outlet port                   | 3/8" NPT(F) swivel                                   |
| Hose outlet thread                  | 1/4" NPT(M) for 3/8" ID Hoses                        |
| Wetted Materials                    | Nickel Plated Steel, Hardened steel and Polyurethane |
| Service Bulletin                    | SB 2028                                              |



| Dimensions inches (MM) |                   |                |                   |
|------------------------|-------------------|----------------|-------------------|
| A                      | B                 | C              | D                 |
| 22"<br>(559 mm)        | 8.62"<br>(219 mm) | 5"<br>(127 mm) | 5.12"<br>(131 mm) |
| E                      | F                 | G              | H                 |
| 22"<br>(599 mm)        | 23.5"<br>(597 mm) | 9"<br>(229 mm) | 9.25"<br>(235 mm) |



# Hose Reels Extended Volume Extra (EVX)

## Air & Water Anti-freeze Oil Diesel Evacuation

The Extended Volume, EVX Series hose reels are designed for high volume heavy-duty applications where large hose diameters are required for increased flow. The EVX reels will accommodate up to 50' of 1" ID hose or 100' of 1/2" ID hose. Perfect for heavy-duty fleet, construction, mining and industrial applications.

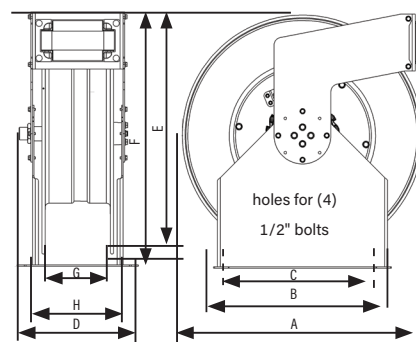
All EVX series reels include hose, hose stop and a 2.5' connecting hose.



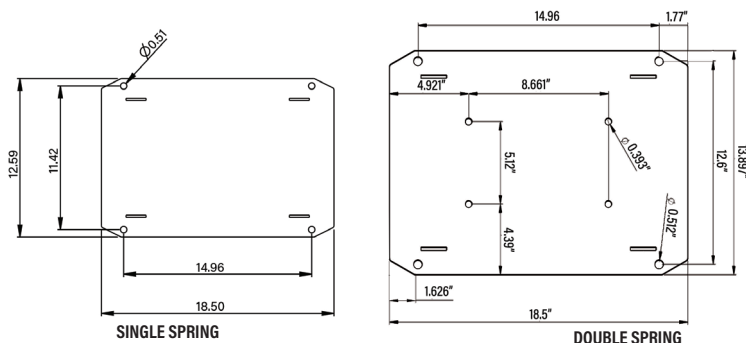
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| MODELS AVAILABLE                                                                                     | DESCRIPTION                                          | REPLACEMENT HOSE |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------|
| Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water and anti-freeze                 |                                                      |                  |
| 2310-034                                                                                             | Bare reel, 50' x 1" ID hose or 75' x 1/2" ID hose    | -                |
| 2310-035**                                                                                           | Bare reel, 75' x 3/4" ID hose or 100' x 1/2" ID hose | -                |
| 2310-036**                                                                                           | 75' x 1/2" ID hose                                   | 8141-075         |
| 2310-037**                                                                                           | 100' x 1/2" ID hose                                  | 8141-100         |
| 2310-038**                                                                                           | 75' x 3/4" ID hose                                   | 8161-075         |
| 2310-039                                                                                             | 50' x 1" ID hose                                     | 8181-050         |
| Oil Medium Pressure 1,525 psi (105 bar) & 2,320 (160 bar) for delivery of lubricants                 |                                                      |                  |
| 2310-035**                                                                                           | Bare reel, 75' x 3/4" ID hose or 100' x 1/2" ID hose | -                |
| 2310-045**                                                                                           | 50' x 1" ID hose 1,500 psi                           | 8281-050         |
| 2310-041**                                                                                           | 75' x 3/4" ID hose 1,525 psi                         | 8264-075         |
| 2310-040**                                                                                           | 100' x 1/2" ID hose 2,320 psi                        | 8250-100         |
| 2310-049**                                                                                           | 75' x 1/2" ID hose                                   | -                |
| Diesel & Evacuation Low Pressure 50 psi (3 bar) for delivery of diesel fuel and used oil evacuation* |                                                      |                  |
| 2310-034                                                                                             | Bare reel, 50' x 1" ID hose or 75' x 1/2" ID hose    | -                |
| 2310-043                                                                                             | 50' x 1" ID hose Diesel                              | 8481-050         |
| 2310-042                                                                                             | 50' x 1" ID hose Evacuation                          | 8281-050         |

| TECHNICAL DATA              |                                 |
|-----------------------------|---------------------------------|
| Low & Medium Pressure Reels |                                 |
| Fluid inlet port            | 1" NPT(F) swivel                |
| Fluid outlet port           | 1" NPT(F) swivel                |
| Hose outlet thread          | 1/2" NPT(M) for 1/2" ID Hoses   |
|                             | 3/4" NPT(M) for 3/4" ID Hoses   |
|                             | 1" NPT(M) for 1" ID Hoses       |
| Wetted Materials            | Nickel plated steel and Buna-N™ |
| Service Bulletin            | SB 2029                         |



\* Verify that system design supports the use of an evacuation reel.  
\*\* Double spring reel



| Single Spring Dimensions inches (MM) |                   |                 |                   |                 |                   |                |                   |
|--------------------------------------|-------------------|-----------------|-------------------|-----------------|-------------------|----------------|-------------------|
| A                                    | B                 | C               | D                 | E               | F                 | G              | H                 |
| 25"<br>(635 mm)                      | 18.5"<br>(470 mm) | 15"<br>(381 mm) | 12.6"<br>(321 mm) | 25"<br>(635 mm) | 26.5"<br>(674 mm) | 7"<br>(178 mm) | 11.4"<br>(290 mm) |

| Double Spring Dimensions inches (MM) |                   |                 |                   |                 |                   |                  |                   |
|--------------------------------------|-------------------|-----------------|-------------------|-----------------|-------------------|------------------|-------------------|
| A                                    | B                 | C               | D                 | E               | F                 | G                | H                 |
| 25"<br>(635 mm)                      | 18.5"<br>(470 mm) | 15"<br>(381 mm) | 13.9"<br>(354 mm) | 25"<br>(635 mm) | 26.5"<br>(674 mm) | 8.5"<br>(216 mm) | 12.6"<br>(321 mm) |

# Hose Reels Extended Volume+ (EVX+)

## Air & Water Anti-freeze Diesel



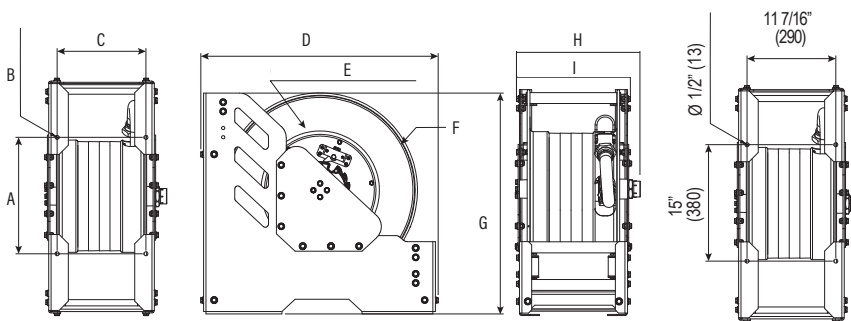
The Extended Volume+, EVX+ Series hose reel is designed for extreme heavy-duty applications where large hose diameters are required for increased flow. The dual spring EVX+ reel will accommodate up to 50' of 1 1/2" ID hose. Perfect for heavy-duty fleet, construction, mining and industrial applications.

Hose not included

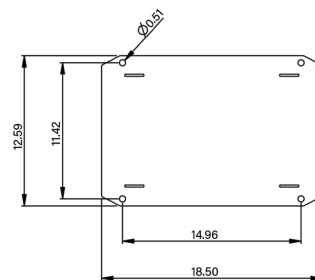


| MODELS AVAILABLE                                                                                                  | DESCRIPTION                    | REPLACEMENT HOSE |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------|
| Air, Water, Diesel & Low Pressure Oil Transfer 580 psi (21 bar) for delivery of air, water, diesel & oil transfer |                                |                  |
| 2310-047                                                                                                          | Bare reel - up to 50' x 1 1/2" | -                |
| 2310-029                                                                                                          | Bare reel - up to 75' x 1 1/2" | -                |

| TECHNICAL DATA             |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Diesel, Low Pressure Reels |                                                                    |
| Fluid inlet port           | 1 1/2" NPT(F) swivel                                               |
| Fluid outlet port          | 1 1/2" NPT(F) swivel                                               |
| Hose outlet thread         | 1 1/2" NPT(M) for 1 1/2" ID Hoses                                  |
| Wetted Materials           | Steel, nickel plated steel, Nitrile rubber, nickel plated aluminum |
| Service Bulletin           | SB 2038                                                            |



| Dimensions inches (MM) |                 |                    |                   |                    |                 |                    |                   |                    |
|------------------------|-----------------|--------------------|-------------------|--------------------|-----------------|--------------------|-------------------|--------------------|
| A                      | B               | C                  | D                 | E                  | F               | G                  | H                 | I                  |
| 15"<br>(381 mm)        | 0.5"<br>(13 mm) | 11.43"<br>(291 mm) | 30.5"<br>(775 mm) | 14.37"<br>(365 mm) | 25"<br>(635 mm) | 28.25"<br>(718 mm) | 15.5"<br>(394 mm) | 14.25"<br>(362 mm) |



## Enclosed Hose Reels

All metal enclosed cabinet hose reels are designed to improve the appearance of any shop. Standard color is black and six special colors are available to match workbenches, and automotive lifts.

### CHOOSE YOUR REEL

| MODELS AVAILABLE                                                                     | DESCRIPTION        |
|--------------------------------------------------------------------------------------|--------------------|
| Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water and anti-freeze |                    |
| 2251-338                                                                             | 30' x 3/8" ID hose |
| 2251-538                                                                             | 50' x 3/8" ID hose |
| 2251-312                                                                             | 30' x 1/2" ID hose |
| 2251-512                                                                             | 50' x 1/2" ID hose |
| Oil Medium Pressure 3,000 psi (207 bar) for delivery of lubricants                   |                    |
| 2252-312                                                                             | 30' x 1/2" ID hose |
| 2252-512                                                                             | 50' x 1/2" ID hose |
| Grease High-pressure 4,000 (276 bar) for delivery of grease                          |                    |
| 2253-314                                                                             | 30' x 1/4" ID hose |
| 2253-538                                                                             | 50' x 3/8" ID hose |



## Air & Water Anti-freeze Windshield wash Oil Grease

Balcrank recommends using mounting channels or framing strut for installation of these enclosures.

- All steel cabinets have high quality, powder coated finish providing corrosion resistance
- Cabinet design provides smooth and easy operation: prevents hose pinch and reduces wear when pulling from any angle
- Simple installation and serviceability
- Cabinet design ties all reels in the bank together to form one complete rigid structure
- Aluminum end panels with removable poly inserts provide fast and easy serviceability

Channels are designed to build a bank of reels

- When mounting directly to an I-Beam, use Mounting Channel I-Beam Bracket Kit #2230-002 to mount channel to a structural I-Beam.

### ADD A LIGHT OR ELECTRIC REEL

| MODELS AVAILABLE | DESCRIPTION                                                                              |
|------------------|------------------------------------------------------------------------------------------|
| 2254-518         | Light Cord Reel & Bracket<br>50' x 18 gauge                                              |
| 2254-518D        | Dual Light - 2 Light Cord<br>Reels & Bracket - fits 1 single<br>enclosure 50' x 18 gauge |
| 2254-316         | Electric Cord Reel & Bracket<br>30' x 10 amps, 3 outlet                                  |
| 2254-316D        | Dual cord reel & bracket<br>30' x 10 amp, 3 outlet                                       |



2254-316



2254-518D

### CHOOSE YOUR SIDE ENCLOSURE

Order 1 side enclosure kit per reel

Side enclosure kits include: 2 side panels, 1 roller outlet assembly, 1 quick mounting plate, and hardware

| MODELS AVAILABLE | DESCRIPTION                          |
|------------------|--------------------------------------|
| 2250-011         | Kit, side enclosure black semi-gloss |
| 2250-012         | Kit, side enclosure white            |
| 2250-013         | Kit, side enclosure green            |
| 2250-014         | Kit, side enclosure blue             |
| 2250-015         | Kit, side enclosure red              |
| 2250-016         | Kit, side enclosure silver           |
| 2250-017         | Kit, side enclosure yellow           |



Enclosed hose reels not recommended for wall-mounting

### CHOOSE YOUR END PANEL KIT

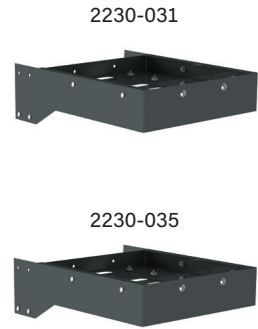
Order 1 end panel kit per reel bank

End panel kits include: 2 end panels, 2 poly end panel inserts, 1 end bar support, and hardware.  
End Panel insert standard color is black. To order a white insert add a "W" to the model number, listed below.  
example - 2250-003W = kit, end panels green with white end panel insert.

| MODELS AVAILABLE | DESCRIPTION                      |
|------------------|----------------------------------|
| 2250-001         | Kit, end panels black semi-gloss |
| 2250-002         | Kit, end panels white            |
| 2250-003         | Kit, end panels green            |
| 2250-004         | Kit, end panels blue             |
| 2250-005         | Kit, end panels red              |
| 2250-006         | Kit, end panels silver           |
| 2250-007         | Kit, end panels yellow           |



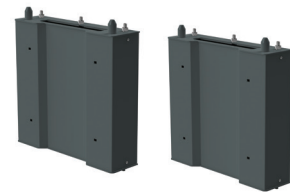
| MODELS   | DESCRIPTION                                                                                                        |
|----------|--------------------------------------------------------------------------------------------------------------------|
| 2230-003 | Mounting Channel - 1 Reel                                                                                          |
| 2230-004 | Mounting Channel - 2 Reel                                                                                          |
| 2230-005 | Mounting Channel - 3 Reel                                                                                          |
| 2230-007 | Mounting Channel - 5 Reel                                                                                          |
| 2230-002 | Mounting Channel I-Beam Bracket Kit.<br>Use two bracket kits for 2 or 3 reels.<br>Use 3 brackets for 5 or 6 reels. |



## Hose reel stands

Heavy duty solid steel stands offer an alternative to ceiling or wall mounting hose reels. All stands include mounting plates, gray finish and drip trays to keep unwanted oil off the floor. Available in 3, 5 and 6 reel models. Designed to fit the Evolution, Classic, and Premium Signature series hose reels.

| MODELS AVAILABLE | DESCRIPTION                                                   |
|------------------|---------------------------------------------------------------|
| 2230-027         | 3 reel hose stand.<br>Dimensions: 47 x 15.5 x 87.5 inches.    |
| 2230-028         | 5 reel hose stand.<br>Dimensions: 68.9 x 15.75 x 86.6 inches. |
| 2230-029         | 6 reel hose stand.<br>Dimensions: 78 x 30 x 103 inches.       |

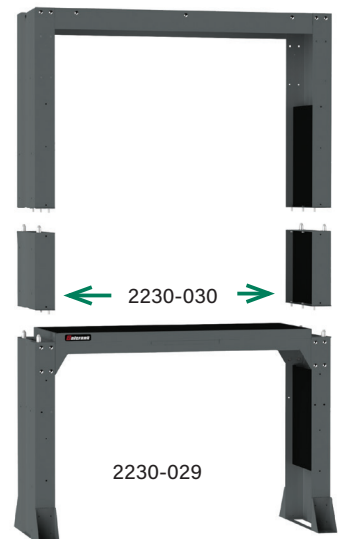


2230-030

## Hose reel stand options

Accessories are available for use with the six reel stand 2230-029 only. Height extension kits increase the stand height by another 20" and expansion brackets allow for an additional 2-4 reels (2 on each side) to be mounted with a total of 10 possible hose reels. Drip tray keeps unwanted fluids off the floor.

| MODELS AVAILABLE | DESCRIPTION                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------|
| 2230-030         | Height extension kit Adds 20" additional height.<br>Sold in pairs                                |
| 2230-031         | Expansion bracket<br>Allows 2 additional reels to be mounted on each side of the hose reel stand |
| 2230-035         | Drip Tray for use with expansion bracket 2230-031.<br>Purchase one per Expansion bracket         |



for large quantities check lead times with your Balcrank Representative.



2

| MOUNTING CHANNEL COMPONENTS                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                        | MOUNTING BRACKET KITS                                                                                                                                                              |          |                                                                                                                                                                                         |  |          |                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Channels are designed to build banks of multiple reels.</p> <ul style="list-style-type: none"> <li>If mounting directly to an I-Beam, use Mounting Channel I-Beam Bracket Kit #2230-002 to mount channel to a structural I-beam.</li> <li>Use Mounting Channel plate #2230-014 to install open reel to the channel.</li> </ul> |                                                                                                                                                                                                                                                                                                        | <p>Specially configured kits are designed to facilitate simple field installation of Balcrank hose reels.</p> <p>NOTE: These kits are not to be used with EV or EVX hose reels</p> |          |                                                                                                                                                                                         |  |          |                                                                                                                                                                                              |
| 2230-003                                                                                                                                                                                                                                                                                                                          | Mounting Channel<br>1 Reel                                                                                                                                                                                                                                                                             |                                                                                                                                                                                    | 2230-026 |                                                                                                                                                                                         |  |          |                                                                                                                                                                                              |
| 2230-004                                                                                                                                                                                                                                                                                                                          | Mounting Channel<br>2 Reels                                                                                                                                                                                                                                                                            |                                                                                                                                                                                    |          |                                                                                                                                                                                         |  |          |                                                                                                                                                                                              |
| 2230-005                                                                                                                                                                                                                                                                                                                          | Mounting Channel<br>3 Reels                                                                                                                                                                                                                                                                            |                                                                                                                                                                                    |          |                                                                                                                                                                                         |  |          |                                                                                                                                                                                              |
| 2230-007                                                                                                                                                                                                                                                                                                                          | Mounting Channel<br>5 Reels                                                                                                                                                                                                                                                                            |                                                                                                                                                                                    |          |                                                                                                                                                                                         |  |          |                                                                                                                                                                                              |
| 2230-002                                                                                                                                                                                                                                                                                                                          | <p><b>Mounting Channel I-Beam Bracket Kit.</b><br/>Attaches mounting channel to facility I-beam structure.</p> <p>Use two bracket kits for 2, 3, or 4 reels. Use 3 brackets for 5 or 6 reels.</p>                                                                                                      |                                                                                                                                                                                    |          |                                                                                                                                                                                         |  | 2230-013 | <p><b>I-Beam Mounting Clamps</b><br/>for use with single EVO, Premium and Classic. Attaches reel directly to structural beams with 4½" to 6½" flange widths or can be used with 2230-024</p> |
| 2230-014                                                                                                                                                                                                                                                                                                                          | <p><b>Mounting Channel Plate</b> for use with open hose reels and a mounting channel. Easy one person installation made easy, plate is bolted to the mounting channel, providing plug &amp; play mount of open reels.</p> <p>Use one per reel</p> <p>NOTE: Not to be used with Enclosed Hose Reels</p> |                                                                                                                                                                                    | 2230-024 | <p><b>Quick Mounting Plate</b><br/>for use with single EVO, Premium and Classic reel. No mounting channel required, mounts directly to unistrut. for I-beam mounting order 2230-013</p> |  |          |                                                                                                                                                                                              |

| LUBE CONSOLE                                                                                                                              | LUBE CONSOLE EXTENSION                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          |                                                                       |
| <b>Lube Console 2600-001</b><br>Lube Console. Includes Lower Hose Guide 2600-003. Ships with 5 console guides, and 2-3/8" accessory stops | <b>Lube Console Extension 2600-005</b><br>Lube Console Extension. Installs next to 2600-001 Lube Console for added capacity. Ships with 2 console guides |

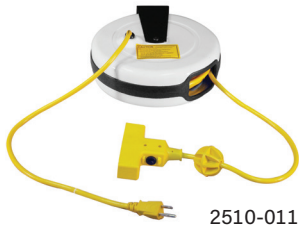
| ACCESSORIES                                                                        |                                                                                    |                                                                                                                                                         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                                                     |
| <b>LUBE CONSOLE LOWER Hose Guide 2600-003</b><br>Lower Hose Guide                  | <b>LUBE CONSOLE FLOOR Plate Hose Guide 2600-006</b><br>Floor Plate Hose Guide      | <b>Lube Console Basement/Ceiling Plate 2600-007</b><br>Basement / ceiling plate with two hose outlets. Can be used with Lube Console Extension 2600-005 |

| ACCESSORIES         |                                                                                     |                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Air Chuck           |  | <b>3340-006</b> Short Stub Length, Single Chuck Ball Foot<br>Maximum pressure 145 psi (10 bar)                                                                                                  |
| Tire Inflator       |  | <b>3340-009</b> Single Chuck Tire Inflator, Straight on single outlet chuck<br><b>3340-010</b> Double Chuck Tire Inflator, Straight on double outlet chuck<br>Maximum pressure 360 psi (25 bar) |
| Radiator Water Bibb |  | <b>3340-014</b> Radiator Water Bibb<br>Thumb valve, Rubber spout<br>Maximum pressure 145 psi (10 bar)                                                                                           |
| Coiled Hose         |  | <b>8137-030</b> 30' x 3/8" Coiled Air Hose for Air/Water Polyurethane<br><b>8137-125</b> 25' x 3/8" Coiled Air Hose for Anti-freeze Nylon<br>300 psi (21 bar)                                   |

| HOSE STOPS                                                                             |                                                                                       |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Purchase hose to fit the correct hose size                                             |                                                                                       |
|   |  |
| <b>2230-015</b> Lube Console Hose Guide                                                |                                                                                       |
| <b>2230-009</b> Hose stop for 1/4" ID Hoses. Fits Classic, Premium, and EVO Hose Reels |                                                                                       |
| <b>2230-025</b> Hose stop for 3/8" ID Hoses. Fits Classic, Premium, and EVO Hose Reels |                                                                                       |
| <b>2230-010</b> Hose stop for 1/2" ID Hoses. Fits Classic, Premium, and EVO Hose Reels |                                                                                       |
| <b>2230-018</b> Hose stop for 1/2" ID Hoses. Fits EV and EVX Hose Reels                |                                                                                       |
| <b>2230-011</b> Hose stop for 3/4" ID Hoses. Fits EV and EVX Hose Reels                |                                                                                       |
| <b>2230-012</b> Hose stop for 1" ID Hoses. Fits EVX Hose Reels                         |                                                                                       |
| <b>2230-039</b> Hose stop for 1 1/2" Hoses. Fits EVX+ Hose Reel                        |                                                                                       |

# Hose Reels Light Cord Reels

2



2510-011



2510-016



2510-013



2510-017\*\*

| MODELS     | DESCRIPTION                                | CORD LENGTH | GAUGE     | INLET CORD                 | PLUG                   | AMPS | RECEPTACLE                | LAMP                  | SERVICE BULLETIN |
|------------|--------------------------------------------|-------------|-----------|----------------------------|------------------------|------|---------------------------|-----------------------|------------------|
| 2510-011   | Electric Cord Reel-30' x 10 amps, 3 outlet | 30' (10 m)  | 16/3 SJT  | -                          | Grounded               | 10   | 3 outlets                 | -                     | -                |
| 2510-016   | Light Cord Reel-50' x 18 gauge             | 50' (15 m)  | 18        | -                          | Polarized              | -    | -                         | LED- impact resistant | SB 2016          |
| 2510-013   | Outlet Reel. Duplex, 40'                   | 40' (13 m)  | 12/3 SJTO | 5.5' (1.67 m)<br>16/3 SJTO | NEMA 5-20P<br>Grounded | 20   | NEMA 5-20R GFCI<br>Duplex | -                     | SB 2030          |
| 2510-017** | Light Reel, Stubby II/Tap, 40'             | 40' (15 m)  | 16/3 SJTO | 5.5' (1.67 m)<br>16/3 SJTO | NEMA 5-15P<br>Grounded | 12   | NEMA 5-15R Locking        | LED- impact resistant | SB 2030          |

SJTO Cord is rated to 300 volts and has a temperature range of -4 °F to 140 °F and features excellent resistance to oil.

Indoor use only - Dry Locations

\*\* Stubby II light with in-line tool tap on retracting cord

# Replacement Hoses

| MODEL PREFIX          | HOSE TYPE      | HOSE I.D. | MAX.WP (PSI) | HOSE END THREADS (NPT)             | LENGTH SUFFIX IN FEET |    |    |      |        |     |        |     |     |     |        |       |      |
|-----------------------|----------------|-----------|--------------|------------------------------------|-----------------------|----|----|------|--------|-----|--------|-----|-----|-----|--------|-------|------|
|                       |                |           |              |                                    | 2                     | 3  | 5  | 6-7  | 8 - 12 | 16  | 20-25  | 30  | 40  | 50  | 60     | 70-75 | 100  |
| 8331                  | Grease         | 3/8"      | 4,000        | 1/4" M x 1/4" Msw                  |                       |    |    | -7   | -10    |     | -20    | -30 | -40 | -50 |        |       |      |
| 8132                  | Air / Water    | 3/8"      | 300          | 1/4" M x 1/4" M                    |                       |    | -5 |      |        |     |        |     |     |     |        |       |      |
| 8134                  | Air / Water    | 3/8"      | 300          | 3/8" M x 3/8" MSW                  |                       | -3 | -5 |      |        |     |        |     |     |     |        |       |      |
| 8135                  | Nitrogen-Green | 3/8"      | 250          | 1/4" M x 1/2" M                    | -002x                 |    |    |      |        |     |        | -30 | -40 | -50 |        |       |      |
| 8136                  | Air / Water    | 3/8"      | 300          | 1/4" M x 1/2" M                    |                       |    |    |      |        | -16 |        | -30 | -40 | -50 | -60    |       |      |
| 8141                  | Air / Water    | 1/2"      | 300          | 1/2" M x 1/2" M                    |                       | -3 | -5 |      |        |     |        | -30 | -40 | -50 | -60-65 | -75   | -100 |
| 8142                  | Air / Water    | 1/2"      | 300          | 1/2" M x 1/2" Msw                  | -002x                 |    |    |      |        |     |        |     |     |     |        |       |      |
| 8144                  | Air / Water    | 1/2"      | 300          | 1/2" M x 3/8" M                    |                       | -3 | -5 |      |        |     |        |     |     |     |        |       |      |
| 8145                  | Air / Water    | 1/2"      | 300 & suc    | 1/2" M x 1/2" Msw                  |                       |    | -5 |      |        |     |        |     |     |     |        |       |      |
| 8146                  | Air / Water    | 1/2"      | 300 & suc    | 1/2" MSW x 3/8" F                  |                       |    |    |      | -10    |     |        |     |     |     |        |       |      |
| 8149                  | Air/Water      | 1/2"      | 300          | 1/2" M x 1/2" Msw                  |                       |    | -5 |      |        |     |        |     |     |     |        |       |      |
| 8161                  | Air/Water      | 3/4"      | 300          | 3/4" M x 3/4" Msw                  | -002x                 |    |    |      |        |     |        |     |     | -50 |        | -75   |      |
| 8171                  | Air / Water    | 3/4"      | 250 & suc    | 3/4" MSW x 3/4" Msw                |                       |    |    | -6   |        |     |        |     |     |     |        |       |      |
| 8181                  | Air / Water    | 1"        | 250 & suc    | 1" MSW x 1" Msw                    | -002x                 |    | -5 | -6   |        |     |        |     |     | -50 |        |       |      |
| 8241                  | Oil            | 1/2"      | 3,000        | 1/2" M x 1/2" M                    | -2                    | -3 |    | -6   | -8     | -16 | -20-25 | -30 | -40 | -50 | -60    |       |      |
| 8242                  | Oil            | 1/2"      | 3,000        | 3/8" M x 3/8" M                    |                       | -3 | -5 | -6   |        |     | -20    | -30 | -40 | -50 |        |       |      |
| 8249                  | Oil            | 1/2"      | 3,000        | 1/2" M x 1/2" Msw                  | -002x                 | -4 | -5 | -6   | -8-10  | -16 |        |     |     |     |        |       |      |
| 8250                  | Oil            | 1/2"      | 2,320        | 1/2" Msw x 1/2" M                  |                       |    |    |      |        |     |        |     |     |     | -65    | -75   | -100 |
| 8261                  | Oil            | 3/4"      | 1,525        | 3/4" M x 3/4" M                    |                       | -3 | -5 |      | -10    |     |        |     |     |     |        |       |      |
| 8262                  | Oil            | 3/4"      | 1,525        | 1/2" Msw x 1/2" Msw                |                       |    |    |      | -10    |     |        |     |     |     |        |       |      |
| 8263                  | Oil            | 3/4"      | 1,525        | 3/4" M x 1/2" Msw                  |                       |    |    |      | -10    |     |        |     |     |     |        |       |      |
| 8264                  | Oil            | 3/4"      | 1,525        | 3/4" M x 3/4" Msw                  | -002x                 | -3 | -5 |      |        |     |        | -30 |     | -50 |        | -75   |      |
| 8281                  | Oil            | 1"        | 2,250        | 1" M x 1" Msw                      | -002x                 |    | -5 |      |        |     |        |     |     | -50 |        |       |      |
| 8321                  | Grease         | 1/4"      | 5,000        | 1/4" M x 1/4" Msw                  |                       |    |    | -7   |        |     |        | -30 | -40 | -50 |        |       |      |
| 8322                  | Grease         | 1/4"      | 5,000        | 1/2"-27 F x 1/2"-27 F              |                       |    | -5 |      |        |     | -20    |     |     | -50 |        |       |      |
| 8323                  | Grease         | 1/4"      | 5,000        | 1/4" M x 3/8" M                    |                       |    |    |      |        |     |        | -30 | -40 | -50 | -60    |       |      |
| 8332                  | Grease         | 3/8"      | 4,000        | 1/4" M x 3/8" M                    |                       |    | -5 |      |        |     |        | -30 | -40 | -50 | -60-65 |       |      |
| 8333                  | Grease         | 3/8"      | 4,000        | 3/8" M x 3/8" M                    |                       |    | -5 |      | -10    |     |        | -30 |     |     |        |       |      |
| 8340                  | Grease         | 1/2"      | 5,000        | 1/2" M x 1/2" Msw                  | -002x                 |    |    |      | -10    |     | -20    |     |     |     |        | -75   |      |
| 8466                  | Diesel         | 3/4"      | 50           | 3/4" M x 3/4" Msw                  | -002x                 |    |    |      |        |     |        | -30 |     | -50 |        |       |      |
| 8481                  | Diesel         | 1"        | 50           | 1" M x 1" Msw                      | -002x                 |    |    |      |        |     |        |     |     | -50 |        |       |      |
| <b>Threads (BSPP)</b> |                |           |              |                                    |                       |    |    |      |        |     |        |     |     |     |        |       |      |
| 8551                  | DEF            | 1"        | 50           | Cut end x simple spout             |                       |    |    | -6   |        |     |        |     |     |     |        |       |      |
| 8560                  | DEF            | 3/4"      | 150          | Cut ends w/ hose clamps            |                       |    |    |      | -12    |     |        |     |     |     |        |       |      |
| 8561                  | DEF            | 3/4"      | 150          | Cut end x 3/4" M                   |                       | -3 |    | -6   | -12    | -16 | -20    | -30 |     |     |        |       |      |
| 8562                  | DEF            | 3/4"      | 150          | 3/4" M x 3/4" Msw                  |                       | -3 |    |      |        |     |        |     |     |     |        |       |      |
| 8569                  | DEF            | 3/4"      | 150          | 3/4" Msw x 3/4" Msw W/ restrictors |                       |    |    |      |        | -16 | -20    | -30 |     | -50 |        |       |      |
| 8570                  | DEF            | 3/4"      | 150          | Cut ends w/ hose clamps            |                       |    |    | -6   |        |     |        |     |     |     |        |       |      |
| 8572                  | DEF            | 1"        | 150          | Cut ends w/ hose clamps            |                       |    |    | -6   |        |     |        |     |     |     |        |       |      |
| 8572                  | DEF            | 1"        | 150          | Cut ends w/ hose clamps            |                       |    |    | -006 |        |     |        |     |     |     |        |       |      |

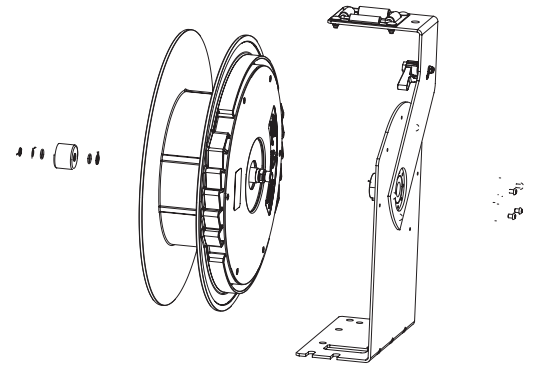


for complete hose model specification, combine "Model Prefix" in the first column with a "Length Suffix" in the right-hand table. Example: Model 8134-030, 3/8" Air/Water Hose, 30 ft. length.

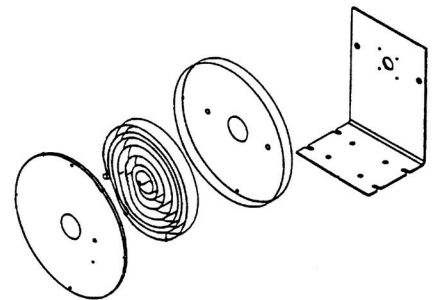
# Hose Reels Repair Kits

2

| EVO REELS               |               |                                                          |
|-------------------------|---------------|----------------------------------------------------------|
| REEL MODELS             | KIT NUMBER    | DESCRIPTION                                              |
| LOW/MEDIUM PRESSURE     |               |                                                          |
| All LP/MP EVO reels     | <b>833029</b> | Swivel seal kit                                          |
| All EVO reels           | <b>833031</b> | Roller outlet                                            |
| All Enclosed EVO reels  | <b>826175</b> | Roller outlet                                            |
| All EVO reels           | <b>833033</b> | Stop Pawl                                                |
| All 30' & 50' EVO reels | <b>833032</b> | Spool (including Power Spring - up to 50' of hose)       |
| All Enclosed EVO reels  | <b>833292</b> | Spool (including Power Spring - up to 50' + 10' of hose) |
| HIGH PRESSURE           |               |                                                          |
| All HP EVO reels        | <b>833030</b> | Swivel                                                   |
| All EVO reels           | <b>833031</b> | Roller outlet                                            |
| All Enclosed EVO reels  | <b>826175</b> | Roller outlet                                            |
| All EVO reels           | <b>833033</b> | Stop Pawl                                                |
| All 30' & 50' EVO reels | <b>833032</b> | Spool (including Power Spring - up to 50' of hose)       |
| All Enclosed EVO reels  | <b>833292</b> | Spool (including Power Spring - up to 50' + 10' of hose) |



| CLASSIC REELS                                            |               |                                  |
|----------------------------------------------------------|---------------|----------------------------------|
| REEL MODELS                                              | KIT NUMBER    | DESCRIPTION                      |
| LOW/MEDIUM PRESSURE                                      |               |                                  |
| All LP/MP Classic reels                                  | <b>833314</b> | Swivel with seals                |
| All 30' Classic hose reels                               | <b>831315</b> | Roller outlet - small arm        |
| All Classic 40' & 50' hose reels; DEF reels, Diesel reel | <b>833313</b> | Roller outlet - large arm        |
| All Enclosed Classic Reels                               | <b>826175</b> | Roller outlet                    |
| All LP/MP Classic reels                                  | <b>833312</b> | Stop Pawl                        |
| All 30' Classic hose reels                               | <b>826728</b> | Power Spring (up to 30' of hose) |
| All Classic 40' & 50' hose reels; DEF reels, Diesel reel | <b>808966</b> | Power Spring (up to 50' of hose) |
| HIGH PRESSURE                                            |               |                                  |
| All Classic HP reels                                     | <b>809396</b> | Swivel - outlet                  |
| All 30' Classic hose reels                               | <b>831315</b> | Roller outlet - small arm        |
| All Classic 40' & 50' hose reels                         | <b>833313</b> | Roller outlet - large arm        |
| All Enclosed Classic Reels                               | <b>826175</b> | Roller outlet                    |
| All LP/MP Classic reels                                  | <b>833312</b> | Stop Pawl                        |
| All 30' hose reels                                       | <b>826728</b> | Power Spring (up to 30' of hose) |
| All 40' & 50' hose reels                                 | <b>808966</b> | Power Spring (up to 50' of hose) |



# Hose Reels Repair Kits

2

## PREMIUM REELS

| REEL MODELS | KIT NUMBER | DESCRIPTION |
|-------------|------------|-------------|
|-------------|------------|-------------|

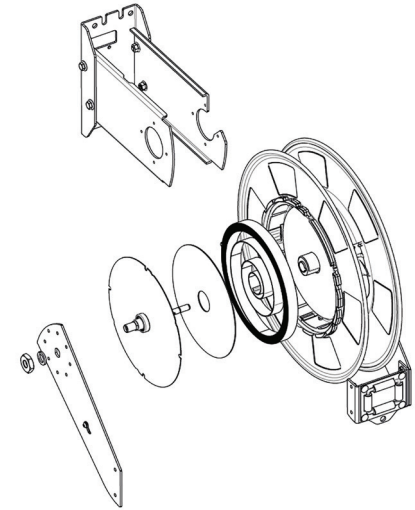
## LOW/MEDIUM PRESSURE

|                                                        |               |                                        |
|--------------------------------------------------------|---------------|----------------------------------------|
| All Premium Reels prior to Year 2012                   | <b>826175</b> | Roller outlet                          |
| All 30' Premium hose reels prior to Year 2012          | <b>826728</b> | Power Spring (up to 30' of hose)       |
| All 40' & 50' Premium hose reels prior to Year 2012    | <b>808966</b> | Power Spring (up to 50' of hose)       |
| All LP/MP Premium reels after Year 2012                | <b>833029</b> | Swivel seal kit                        |
| All Premium reels after Year 2012                      | <b>833031</b> | Roller outlet                          |
| All Premium reels after Year 2012                      | <b>833147</b> | Stop Pawl                              |
| All 30', 40', & 50' Premium hose reels after Year 2012 | <b>833145</b> | Power Spring (up to 50' of hose)       |
| All 60' Premium hose reels after Year 2012             | <b>833146</b> | Power Spring (up to 50' + 10' of hose) |

## HIGH PRESSURE

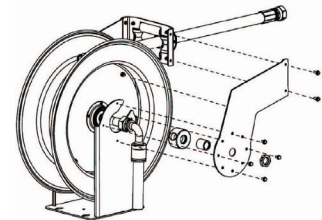
| REEL MODELS | KIT NUMBER | DESCRIPTION |
|-------------|------------|-------------|
|-------------|------------|-------------|

|                                                        |               |                                        |
|--------------------------------------------------------|---------------|----------------------------------------|
| All HP Premium reels prior to Year 2012                | <b>809396</b> | Swivel - inlet                         |
| All Premium reels prior to Year 2012                   | <b>826175</b> | Roller outlet                          |
| All 30' Premium hose reels prior to Year 2012          | <b>826728</b> | Power Spring (up to 30' of hose)       |
| All 40' & 50' Premium hose reels prior to Year 2012    | <b>808966</b> | Power Spring (up to 50' of hose)       |
| All HP Premium reels after Year 2012                   | <b>833030</b> | Swivel                                 |
| All Premium reels after Year 2012                      | <b>833031</b> | Roller outlet                          |
| All Premium reels after Year 2012                      | <b>833147</b> | Stop Pawl                              |
| All 30', 40', & 50' Premium hose reels after Year 2012 | <b>833145</b> | Power Spring (up to 50' of hose)       |
| All 60' Premium hose reels after Year 2012             | <b>833146</b> | Power Spring (up to 50' + 10' of hose) |



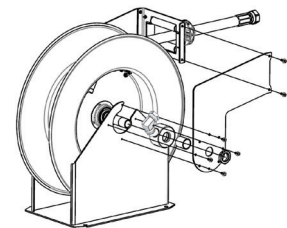
## EV REELS

|                                 |               |                                |
|---------------------------------|---------------|--------------------------------|
| All EV Reels prior to Year 2009 | <b>826175</b> | Roller outlet                  |
| All EV reels (except DEF)       | <b>833267</b> | Swivel with seals              |
| All EV reels (except DEF)       | <b>833266</b> | Seal kit (swivel not included) |
| All DEF EV reels                | <b>833315</b> | Swivel with seals              |
| All DEF EV reels                | <b>833316</b> | Seal kit (swivel not included) |
| All EV reels                    | <b>833265</b> | Roller outlet                  |
| All EV reels                    | <b>833262</b> | Stop Pawl                      |



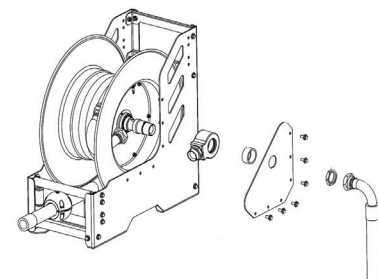
## EVX REELS

|               |               |                                |
|---------------|---------------|--------------------------------|
| All EVX reels | <b>833264</b> | Swivel with seals              |
| All EVX reels | <b>833263</b> | Seal kit (swivel not included) |
| All EVX reels | <b>833261</b> | Roller outlet                  |
| All EVX reels | <b>833262</b> | Stop Pawl                      |



## EVX+ REEL

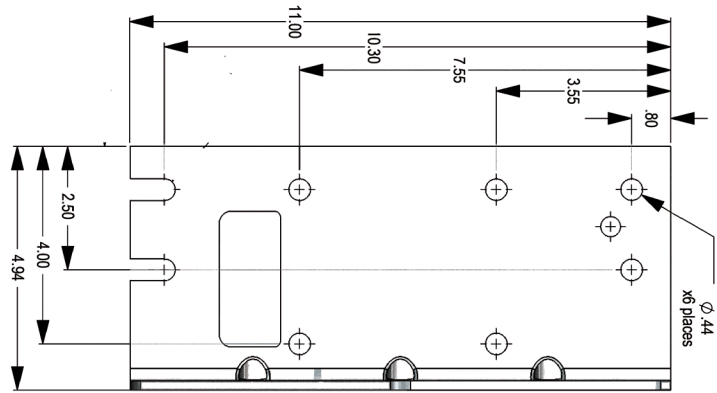
|           |               |                                               |
|-----------|---------------|-----------------------------------------------|
| EVX+ reel | <b>833262</b> | Stop Pawl                                     |
| EVX+ reel | <b>833903</b> | Swivel with seals                             |
| EVX+ reel | <b>833904</b> | Swivel complete kit                           |
| EVX+ reel | <b>833905</b> | Roller outlet assembly (high capacity spring) |



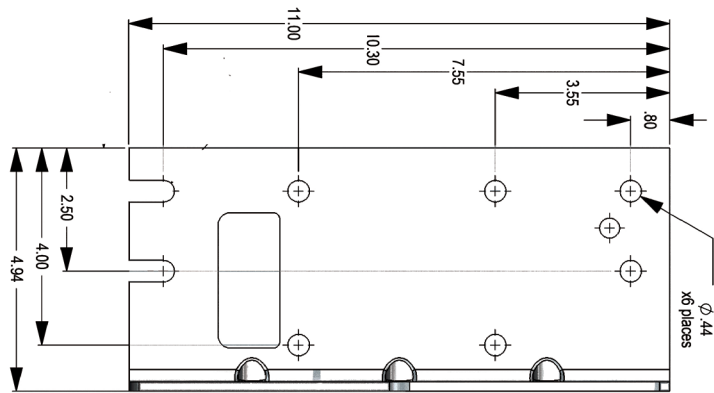
## Hose Reel Footprints

2

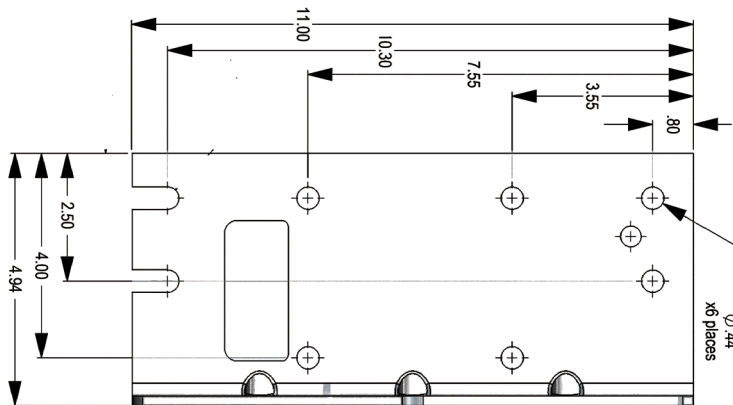
### EVO Hose Reel Footprint



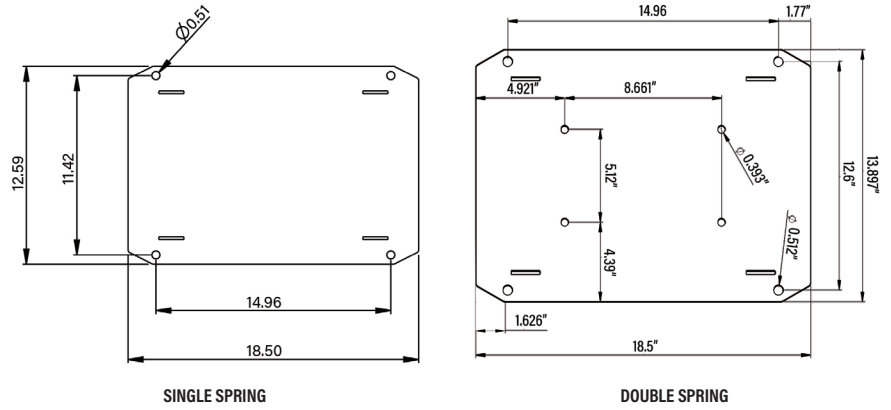
### CLASSIC Hose Reel Footprint



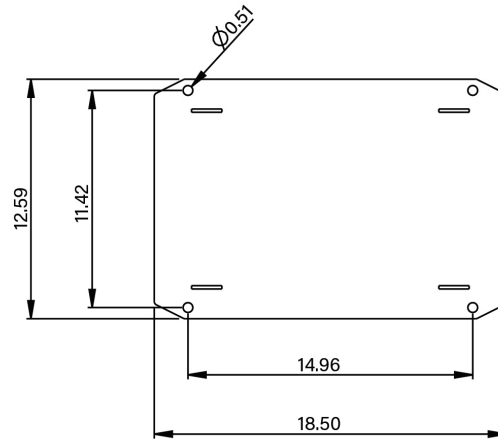
### PREMIUM Hose Reel Footprint



## EV Hose Reel Footprint



## EVX / EVX+ Hose Reel Footprint





Mechanical Oval Gear Meter Control Handle



# CONTROL HANDLES

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# Control Handles Product Selection Matrix

| UNIT OF MEASURE                       | FLOW RANGE                          | MAX. PRESSURE          | WEIGHT              | RECOMMENDED FLUIDS                                        |
|---------------------------------------|-------------------------------------|------------------------|---------------------|-----------------------------------------------------------|
| <b>NON-METERED</b>                    |                                     |                        |                     |                                                           |
| -                                     | 0.26 - 10.5 gal/min<br>(1-40 l/min) | 1,450 psi<br>(100 bar) | 3.30 lb<br>(1.5 kg) | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>DR SERIES METERED</b>              |                                     |                        |                     |                                                           |
| gallon, quart, pint,<br>liter         | 0.26 - 8 gal/min<br>(1-30 l/min)    | 1,450 psi<br>(100 bar) | 4 lb<br>(1.80 kg)   | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>MO SERIES METERED</b>              |                                     |                        |                     |                                                           |
| quart, liter                          | 0.26 - 8 gal/min<br>(1-30 l/min)    | 1,000 psi<br>(70 bar)  | 4 lb<br>(1.80 kg)   | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>MR SERIES METERED</b>              |                                     |                        |                     |                                                           |
| quart, liter                          | 0.26 - 8 gal/min<br>(1-30 l/min)    | 1,450 psi<br>(100 bar) | 3.75 lb<br>(1.7 kg) | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>MR SERIES PRESET METERED</b>       |                                     |                        |                     |                                                           |
| gallon, quart, liter                  | 0.25 - 8 gal/min<br>(1-30 l/min)    | 1,450 psi<br>(100 bar) | 4.4 lb<br>(2 kg)    | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>HIGHFLO NON-METERED</b>            |                                     |                        |                     |                                                           |
| -                                     | 0.26 - 24 gal/min<br>(1-90 l/min)   | 1,450 psi<br>(100 bar) | 4.5 lb<br>(2.05 kg) | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>HIGHFLO METERED</b>                |                                     |                        |                     |                                                           |
| gallon, quart, pint,<br>liter         | 0.52 - 19 gal/min<br>(2-70 l/min)   | 1,450 psi<br>(100 bar) | 6.3 lb<br>(2.85 kg) | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>ELECTRONIC PRESET METERED</b>      |                                     |                        |                     |                                                           |
| gallon, quart, pint<br>liter          | 0.2 - 8 gal/min<br>(0.8- 30 l/min)  | 1,425 psi<br>(100 bar) | 3.7 lb<br>(1.7 kg)  | Oil, transmission fluid, hydraulic fluid, and anti-freeze |
| <b>BFH2 FLUID HANDLE NON- METERED</b> |                                     |                        |                     |                                                           |
| -                                     | 8 gal/min<br>(30 l/min)             | 725 psi<br>(50 bar)    | 0.63 lb<br>(284 kg) | DEF, windshield wash solutions, glycol, and anti-freeze   |
| <b>BFH2 FLUID HANDLE METERED</b>      |                                     |                        |                     |                                                           |
| gallon, quart, pint,<br>liter         | 8 gal/min<br>(30 l/min)             | 435 psi<br>(30 bar)    | 1.81 lb<br>(819 kg) | DEF, windshield wash solutions, glycol, and anti-freeze   |



DR SERIES



MO SERIES  
METERED



MR SERIES  
METERED



MR SERIES  
PRESET METERED



HIGHFLO  
SERIES



ELECTRONIC  
PRESET METERED



BFH2 METERED  
SERIES

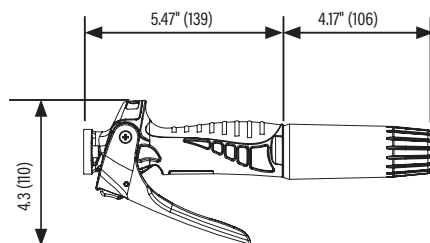
# Control Handles Non-Metered



### TECHNICAL DATA

|                       |                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Flow Rate             | 0.26-10.5 gal/min (1-40 l/min)                                                                                                       |
| Maximum pressure      | 1,450 psi (100 bar)                                                                                                                  |
| Swivel Inlet          | 1/2" NPT(F) Swivel                                                                                                                   |
| Dispense Nozzle OD    | Auto = 0.605"<br>Manual 1/4 turn for OIL = 0.705"<br>Manual 1/4 turn for ATF= 0.315"<br>Verify ID of ATF fill port for compatibility |
| Operating Temperature | 14° F to 140° F (-10° C to 60° C)                                                                                                    |
| Weight                | 3.30 lb (1.5 kg)                                                                                                                     |
| Compatible Fluids     | Oil, transmission fluid, hydraulic fluid, and anti-freeze                                                                            |
| Wetted Materials      | Aluminum, stainless steel, zinc alloy, Buna-N™, zinc plated steel and brass                                                          |
| Service Bulletin      | SB 3095                                                                                                                              |

Dimensions inches (mm)



833398 Multi Colored set; red, yellow, green, blue (4 pcs)



**Synthetic and mineral based lubricants**  
**Gear Oil**  
**Hydraulic oil and fluids**  
**ATF**  
**Anti-freeze (Glycol) and anti-freeze water solution**

- Fully ported, ball bearing, inlet swivel included
- Easy access fluid inlet screen included at swivel
- Included swivel hose-end cover, protects vehicle or machine surfaces from scratches
- Easy access for service of the rotary piston mechanism
- Trigger lock button prevents accidental control valve opening and allows the control valve to be locked in open position for large volumes dispense
- Cam & piston valve design optimized for superb control and minimal flow resistance
- Ergonomically designed grip handle for optimum comfort

### Markets Served

- Car and truck dealers
- Fast lube and maintenance shops
- Fleets
- Mining and construction
- Lube trucks
- Railroad and mass transit

| MODELS AVAILABLE                              | EXTENSION TYPE & NOZZLE    | EXTENSION CODE |
|-----------------------------------------------|----------------------------|----------------|
| Verify ID of ATF fill port for compatibility. |                            |                |
| 3320-026                                      | Flex Auto                  | 3332-095       |
| 3320-022                                      | Rigid 1/4 turn - OIL       | 3332-091       |
| 3320-023                                      | Flex 90 1/4 turn - OIL     | 3332-092       |
| 3320-024                                      | Flex Memory 1/4 turn - OIL | 3332-093       |
| 3320-032                                      | Flex Memory 1/4 turn - ATF | 3332-104       |
| 3320-056                                      | Bare                       | -              |

# Control Handles DR Meter (Digital Register Meter)

**Synthetic and mineral based lubricants**  
**Gear Oil**  
**Hydraulic oil and fluids**  
**ATF**  
**Anti-freeze (Glycol) and anti-freeze water solution**



3

- Sealed battery compartment; 2 AAA batteries
- Precision robotically machined aluminum die-cast fluid chamber for repeatable accuracy
- Low power consumption with auto sleep function
- Trip mode function; can operate as a simple fluid management device
- Non-resettable totalizer; maintains total volume of meter since day one
- Ergonomic comfort handle
- Unique 1/4 turn manual tip; fast, simple
- Flanged coupling; prevents leaks commonly found in competitive meters
- Swivel protective cover
- Affordable repairability

### Markets Served

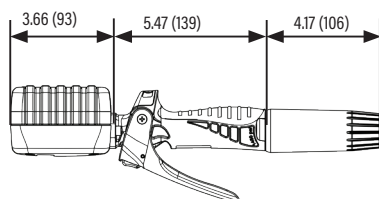
- Car and truck dealers
- Fast lube and maintenance shops
- Fleets
- Mining and construction
- Lube trucks

See Dispense nozzle OD for important details

| TECHNICAL DATA        |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Units of measure      | Batch: Gallons, Quarts, Pints, and Liters (in 0.01 increments)                                                                        |
| Accuracy              | +/- 0.5% of reading (lubricating oils)                                                                                                |
| Flow Range            | 0.26-8 gal/min (1-30 l/min)                                                                                                           |
| Maximum pressure      | 1,450 psi (100 bar)                                                                                                                   |
| Swivel inlet          | 1/2" NPT(F)                                                                                                                           |
| Dispense Nozzle OD    | Auto = 0.605"<br>Manual 1/4 turn for OIL = 0.705"<br>Manual 1/4 turn for ATF = 0.315"<br>Verify ID of ATF fill port for compatibility |
| Operating temperature | 14° F to 140° F (-10° C to 60° C)                                                                                                     |
| Weight                | 4 lb (1.80 kg)                                                                                                                        |
| Battery               | 2 x 1.5 v alkaline "AAA"                                                                                                              |
| Compatible Fluids     | Oil, transmission fluid, hydraulic fluid, and anti-freeze                                                                             |
| Wetted Materials      | Liquid Crystal Polymer (LCP), aluminum, Buna-N™, zinc plated steel, stainless steel, neodymium, and brass                             |
| Service Bulletin      | SB 3095                                                                                                                               |

| MODELS AVAILABLE                              | EXTENSION TYPE & NOZZLE    | EXTENSION CODE |
|-----------------------------------------------|----------------------------|----------------|
| Verify ID of ATF fill port for compatibility. |                            |                |
| <b>3330-161</b>                               | Flex Auto                  | 3332-095       |
| <b>3330-157</b>                               | Rigid 1/4 turn - OIL       | 3332-091       |
| <b>3330-158</b>                               | Flex 90 1/4 turn - OIL     | 3332-092       |
| <b>3330-159</b>                               | Flex-memory 1/4 turn - OIL | 3332-093       |
| <b>3330-169</b>                               | Rigid 1/4 turn - ATF       | 3332-101       |
| <b>3330-172</b>                               | Flex-memory 1/4 turn - ATF | 3332-104       |
| <b>3330-166</b>                               | DR bare                    | -              |

Dimensions inches (mm)



833398 Multi Colored set; red, yellow, green, blue (4 pcs)

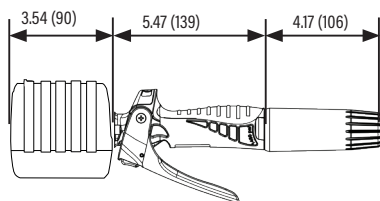
# Control Handles MO Meter (Mechanical Oval Gear Meter)



See Dispense nozzle OD for important details

| TECHNICAL DATA        |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Units of measure      | Quarts & Liters (totalizer Gallons)                                                                                                   |
| Accuracy              | +/- 1%                                                                                                                                |
| Flow Rate             | 0.25 - 8 gal/min (1 - 30 l/min)                                                                                                       |
| Maximum pressure      | 1,000 psi (70 bar)                                                                                                                    |
| Swivel inlet          | 1/2" NPT(F)                                                                                                                           |
| Dispense Nozzle OD    | Auto = 0.605"<br>Manual 1/4 turn for OIL = 0.705"<br>Manual 1/4 turn for ATF = 0.315"<br>Verify ID of ATF fill port for compatibility |
| Operating temperature | 14° F to 140° F (-10° C to 60° C)                                                                                                     |
| Weight                | 4 lb (1.80 kg)                                                                                                                        |
| Compatible Fluids     | Oil, transmission fluid, hydraulic fluid, and anti-freeze                                                                             |
| Wetted Materials      | Acetal, aluminum, stainless steel, NBR, Zinc plated steel, TPU, Polyamide                                                             |
| Service Bulletin      | SB 3113                                                                                                                               |

Dimensions inches (mm)



833398 Multi Colored set; red, yellow, green, blue (4 pcs)

**Synthetic and mineral based lubricants**  
**Gear Oil**  
**Hydraulic oil and fluids**  
**ATF**  
**Anti-freeze (Glycol) and anti-freeze water solution**

- Meter with odometer display, works without batteries and performs well in all environments
- 6-digit totalizer; keeps lifetime record of volume dispensed in gallons
- No calibration required; precision machined metering chamber assures repeatable accuracy
- Ergonomically designed grip handle for optimum comfort
- Unique 1/4 turn manual non-drip tip; fast, simple
- Included swivel hose-end cover, protects vehicle or machine surfaces from scratches

### Markets Served

- Car and truck dealers
- Fast lube and maintenance shops
- Fleets
- Mining and construction
- Lube trucks

| MODELS AVAILABLE                              | EXTENSION TYPE & NOZZLE    | EXTENSION CODE U/M |    |
|-----------------------------------------------|----------------------------|--------------------|----|
| Verify ID of ATF fill port for compatibility. |                            |                    |    |
| 3330-205                                      | Flex-memory 1/4 turn - OIL | 3332-093           | QT |
| 3330-206                                      | Flex-memory 1/4 turn - ATF | 3332-104           | QT |
| 3330-207                                      | Rigid 1/4 turn - OIL       | 3332-091           | QT |
| 3330-208                                      | Flex 90 1/4 turn - OIL     | 3332-092           | QT |
| 3330-212                                      | Flex-memory 1/4 turn - OIL | 3332-093           | L  |
| 3330-213                                      | Flex 90 1/4 turn - ATF     | 3332-104           | L  |
| 3330-214                                      | Rigid 1/4 turn - OIL       | 3332-091           | L  |
| 3330-215                                      | Flex-memory 1/4 turn - OIL | 3332-092           | L  |
| 3330-204                                      | Bare                       | -                  | QT |
| 3330-211                                      | Bare                       | -                  | L  |



# Control Handles MR Meter (Mechanical Registry Meter)

**Synthetic and mineral based lubricants**  
**Gear Oil**  
**Hydraulic oil and fluids**  
**ATF**  
**Anti-freeze (Glycol)**



Gallons



Liters

- 1 piece molded pointer knob is resistant to impacts
- No calibration required; precision machined metering chamber assures repeatable accuracy
- Viscosity and temperature change does not effect accuracy
- 33% improved performance over competitive mechanical meters
- 5-digit totalizer; keeps lifetime record of volume dispensed
- Easy access filter in swivel at meter inlet Swivel protective cover
- Unique 1/4 turn manual tip; fast, simple
- Flanged coupling; prevents leaks commonly found in competitive meters
- Ergonomic comfort handle

### Markets Served

- Car and truck dealers
- Fast lube and maintenance shops
- Fleets
- Mining and construction
- Lube trucks
- Railroad and mass transit

See Dispense nozzle OD for important details

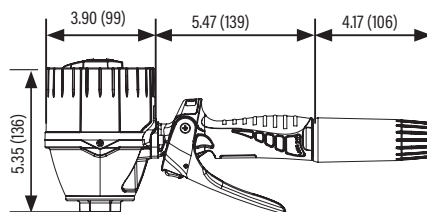
| TECHNICAL DATA        |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Units of measure      | Gallons and Liters (in 0.01 increments)                                                                                               |
| Accuracy              | +/- 0.65%                                                                                                                             |
| Flow Rate             | 0.26 - 8 gal/min (1 - 30 l/min)                                                                                                       |
| Maximum pressure      | 1,450 psi (100 bar)                                                                                                                   |
| Swivel Inlet          | 1/2" NPT(F) Swivel                                                                                                                    |
| Dispense Nozzle OD    | Auto = 0.605"<br>Manual 1/4 turn for OIL = 0.705"<br>Manual 1/4 turn for ATF = 0.315"<br>Verify ID of ATF fill port for compatibility |
| Operating Temperature | 14° F to 140° F (-10° C - 60° C)                                                                                                      |
| Weight                | 3.75 lb (1.7 kg)                                                                                                                      |
| Compatible Fluids     | Oil, transmission fluid, hydraulic fluid, and anti-freeze                                                                             |
| Wetted Materials      | Aluminum, stainless steel, zinc alloy, Buna-N™, zinc plated steel and brass                                                           |
| Service Bulletin      | SB 3096                                                                                                                               |

| MODELS AVAILABLE | EXTENSION TYPE & NOZZLE | EXTENSION CODE U/M |
|------------------|-------------------------|--------------------|
|------------------|-------------------------|--------------------|

Verify ID of ATF fill port for compatibility.

|                 |                                       |          |    |
|-----------------|---------------------------------------|----------|----|
| <b>3330-189</b> | Rigid 1/4 turn-OIL                    | 3332-091 | Qt |
| <b>3330-192</b> | Flex Memory 1/4 turn-OIL              | 3332-093 | Qt |
| <b>3330-196</b> | Flex Memory 1/4 turn-ATF, Anti-freeze | 3332-104 | Qt |
| <b>3330-177</b> | Rigid 1/4 turn-OIL                    | 3332-091 | L  |
| <b>3330-180</b> | Flex Memory 1/4 turn-OIL              | 3332-093 | L  |
| <b>3330-184</b> | Flex Memory 1/4 turn-ATF, Anti-freeze | 3332-104 | L  |
| <b>3330-202</b> | MR Bare                               | -        | L  |
| <b>3330-203</b> | MR Bare                               | -        | Qt |

Dimensions inches (mm)



# Control Handles MR Meter (Mechanical Preset Meter)



**Synthetic and mineral based lubricants**  
**Gear Oil**  
**Hydraulic oil and fluids**  
**ATF**  
**Anti-freeze (Glycol) and anti-freeze water solution**

- MR style meter with preset function.
- Preset mode dispensing allows hands-off operation as the meter automatically shuts off once the preset volume is delivered
- Meter with analogue dial display, works without batteries and performs well in all environment. Includes inlet swivel and rigid outlet with non-drip nozzle
- 1 piece molded pointer knob is resistant to impacts
- No calibration required; precision machined metering chamber assures repeatable accuracy
- Viscosity and temperature change does not effect accuracy
- 33% improved performance over competitive mechanical meters
- 5-digit totalizer; keeps lifetime record of volume dispensed
- Easy access filter in swivel at meter inlet
- Swivel protective cover
- Flanged coupling; prevents leaks commonly found in competitive meters
- Ergonomic comfort handle

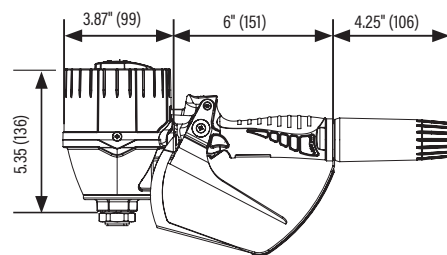
### TECHNICAL DATA

|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Units of measure      | Gallons, Quarts, and Liters                                                     |
| Accuracy              | +/- 0.65%                                                                       |
| Flow Rate             | 0.25 - 8 gal/min (1 - 30 l/min)                                                 |
| Maximum pressure      | 1,450 psi (100 bar)                                                             |
| Swivel inlet          | 1/2" NPT(F)                                                                     |
| Operating temperature | -49° F to 158° F (-45° C to 70° C)                                              |
| Weight                | 4.4 lb (2 kg)                                                                   |
| Compatible Fluids     | Oil, transmission fluid, hydraulic fluid, and anti-freeze                       |
| Wetted Materials      | Zinc alloy, aluminum, Buna-N™, stainless steel, brass, steel, TPU and polyamide |
| Service Bulletin      | SB 3106                                                                         |

### Markets Served

- Car and truck dealers
- Fast lube and maintenance shops
- Fleets
- Mining and construction
- Lube trucks
- Railroad and mass transit

Dimensions inches (mm)



| MODELS AVAILABLE | EXTENSION TYPE & NOZZLE      | U/M DIAL U/M TOTALIZER |
|------------------|------------------------------|------------------------|
| <b>3331-024</b>  | Rigid straight Semi-auto tip | 0-60 Liters            |
| <b>3331-023</b>  | Rigid straight Semi-auto tip | 0-60 Quarts            |
| <b>3331-025</b>  | Rigid straight Semi-auto tip | 0-60 Gallons           |

## Control Handles HighFlo

**Synthetic and mineral based lubricants**  
**Gear Oil**  
**Hydraulic oil and fluids**  
**ATF**  
**Anti-freeze (Glycol)**



- HighFlo Control Handle is designed for service where higher volume deliveries are required
- High volume rigid or flexible outlets with non-drip tip
- 3/4" or 1" NPT inlet connection thread
- Ideal for bulk fill, transfer and high flow dispense
- Heavy duty rugged design

### Markets Served

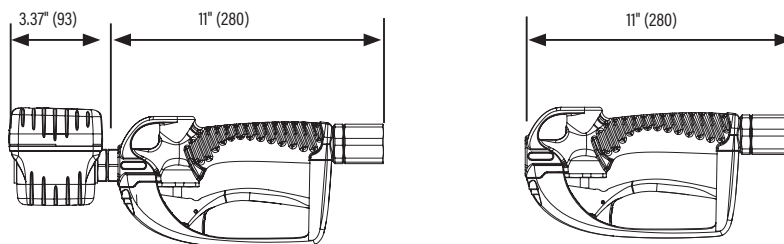
- Truck dealers
- Fleets
- Mining and construction
- Lube trucks
- Railroad and mass transit

### TECHNICAL DATA

|                       | NON-METERED                                               | METERED                                                                 |
|-----------------------|-----------------------------------------------------------|-------------------------------------------------------------------------|
| Units of measure      | -                                                         | Batch: Liters, quarts, pints, gallons                                   |
| Accuracy              | -                                                         | +/-0.5% of reading                                                      |
| Flow Range            | 0.26-24 gal/min (1-90 l/min)                              | 0.52-19 gal/min (2-70 l/min)                                            |
| Maximum pressure      | 1,450 psi (100 bar)                                       |                                                                         |
| Swivel inlet:         | 3/4" or 1" NPT(F)                                         |                                                                         |
| Operating Temperature | 14 to 140° F (-10 to 60° C)                               |                                                                         |
| Weight                | 4.5 lb (2.05 kg)                                          | 6.3 lb (2.85 kg)                                                        |
| Compatible Fluids     | Oil, transmission fluid, hydraulic fluid, and anti-freeze |                                                                         |
| Wetted Materials      | Aluminum, Buna-N™, zinc plated steel and brass            | Acetal, aluminum, stainless steel, Buna-N™, zinc plated steel and brass |
| Service Bulletin      | SB 3097                                                   | SB 3097 + SB 3098                                                       |

| MODELS AVAILABLE | DESCRIPTION                              |
|------------------|------------------------------------------|
| <b>3330-197</b>  | Rigid - Metered<br>3/4" NPT(F) Inlet     |
| <b>3330-198</b>  | Flex - Metered<br>3/4" NPT(F) Inlet      |
| <b>3330-199</b>  | Rigid - Metered<br>1" NPT(F) Inlet       |
| <b>3330-200</b>  | Flex - Metered<br>1" NPT(F) Inlet        |
| <b>3320-051</b>  | Rigid - Non-Metered<br>3/4" NPT(F) Inlet |
| <b>3320-052</b>  | Flex - Non-Metered<br>3/4" NPT(F) Inlet  |
| <b>3320-053</b>  | Rigid - Non-Metered<br>1" NPT(F) Inlet   |
| <b>3320-054</b>  | Flex - Non-Metered<br>1" NPT(F) Inlet    |

Dimensions inches (mm)



# Control Handles BFH2 Fluid Handle



**AdBlue**  
**Windshield Wash Fluid**  
**Antifreeze**  
**Distilled water**  
**Glycol**  
**Brake fluid**

- High chemical compatibility
- Easy flanged meter connection
- Improved ergonomic design
- Increased security

### Markets Served

- Truck dealerships
- Fleet service
- Mining and construction
- Railroad and mass transit vehicles
- Lube trucks

3

| TECHNICAL DATA                    |                                         |                                                                                   |
|-----------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|
| SPECIFICATIONS                    | FLUID HANDLE                            | METERED FLUID HANDLE                                                              |
| Units of measure                  | -                                       | Quarts, pints, gallons, liters                                                    |
| Accuracy                          | -                                       | ± 0,5%                                                                            |
| Flow Rate                         | 8 gal/m (30 l/m)                        | 8 gal/m (30 l/m)                                                                  |
| Maximum pressure                  | 725 psi (50 bar)                        | 435 psi (30 bar)                                                                  |
| Swivel Inlet                      | 1/2" NPT(F)                             | 1/2" NPT(F)                                                                       |
| Operating Temperature             | 14° F to 122° F (-10° C to 50° C)       | 14° F to 122° F (-10° C to 50° C)                                                 |
| Battery                           | -                                       | 2 x "AAA" alkaline                                                                |
| Weight (with no outlet)           | 0.63 lb (284 kg)                        | 1.81 lb (819 kg)                                                                  |
| Compatible Fluids                 | -                                       | DEF, Windshield Wash Solutions, Glycol, Anti-freeze                               |
| Wetted Materials                  | PP, Stainless Steel, Acetal, PA, Viton® | Stainless Steel, PVC, LCP, Viton®, PP, Acetal, PA                                 |
| Maximum/minimum recorded dispense | -                                       | 0,01 to 99999 for liters, gallons and quarter units, 0,02 to 99999 for pint units |
| Service Bulletin                  | SB 3001                                 | SB 3001 & SB 3095                                                                 |

| MODELS AVAILABLE | DESCRIPTION                                                              |
|------------------|--------------------------------------------------------------------------|
|                  | DEF, Windshield Wash Solutions, Glycol, Anti-freeze                      |
| <b>3320-057</b>  | Fluid Handle, 1/2" SS Rigid Outlet, No Tip, Use with DEF                 |
| <b>3320-058</b>  | Fluid Handle, 1/2" PA Flexible Outlet, No Tip, Use with DEF              |
| <b>3330-216</b>  | Metered Fluid Handle, 1/2" SS Rigid Outlet, No Tip, Use with DEF         |
| <b>3330-217</b>  | Metered Fluid Handle, 1/2" PA Flexible Outlet, No Tip, Use with DEF      |
|                  | Windshield Wash Solutions, Glycol, Anti-freeze                           |
| <b>3320-059</b>  | Fluid Handle, Stainless Steel and Flex 90° 1/4 Turn, Not for DEF         |
| <b>3330-218</b>  | Metered Fluid Handle, Stainless Steel and Flex 90° 1/4 Turn, Not for DEF |

Dimensions in (mm)



| MODELS AVAILABLE | DESCRIPTION                                          |
|------------------|------------------------------------------------------|
| <b>3332-111</b>  | Rigid Outlet - no tip (Used with DEF) 1/2" NPT(M)    |
| <b>3332-112</b>  | Flexible Outlet - no tip (Used with DEF) 1/2" NPT(M) |
| <b>3332-113</b>  | Stainless Steel Flex 90° 1/4" Turn 1/2" NPT(M)       |

# Control Handles EP Meter (Electronic Preset Meter)

**Synthetic and mineral based lubricants**  
**Gear oil**  
**Hydraulic fluids**  
**ATF**

Preset dispensing allows hands-free operation as the meter automatically shuts off once the desired preset amount is reached.

- Programmable for quarts, pints, gallons, liters
- Save up to 10 preset values in built-in memory
- Operates in manual or automatic preset mode
- Transaction memory: Stores volume delivered of the last 5 transactions
- Low battery indicator

### Markets Served

- Auto and truck dealerships
- Truck fast lube and maintenance shops
- Fleets
- Mining and construction
- Railroad and mass transit

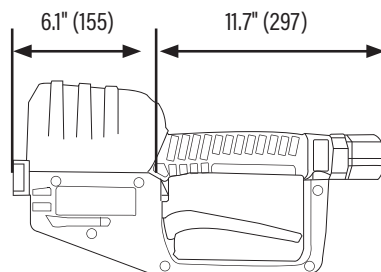


### TECHNICAL DATA

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| Units of measure  | Quarts, pints, gallons, liters                                                   |
| Accuracy          | +/- 0.5 %                                                                        |
| Flow Range        | 0.25-7.5 gal/m (1-30 l/m)                                                        |
| Maximum pressure  | 1,425 psi (100 bar)                                                              |
| Swivel Inlet      | 1/2" NPT(F)                                                                      |
| Battery           | 4 x alkaline "AA"                                                                |
| Weight            | 3.7 lb (1.7 kg)                                                                  |
| Compatible Fluids | Oil, transmission fluid, hydraulic fluid, anti-freeze and gear oil               |
| Wetted Materials  | Aluminum, AISI316 Stainless Steel, Buna-N™; Delrin, Brass, and Zinc Plated Steel |
| Service Bulletin  | SB 3115                                                                          |

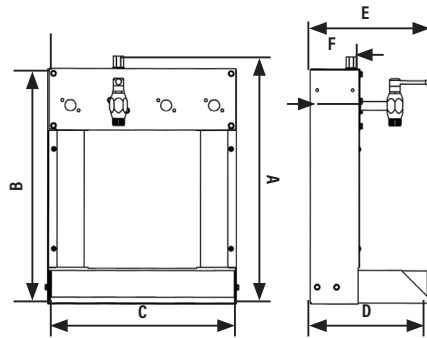
\*Patent pending

Dimensions in (mm)



| MODELS AVAILABLE | EXTENSION TYPE & NOZZLE | EXTENSION CODE |
|------------------|-------------------------|----------------|
| <b>3331-031</b>  | Rigid<br>1/4 turn - OIL | 3332-091       |
| <b>3331-032</b>  | Flex<br>Memory - OIL    | 3332-093       |
| <b>3331-033</b>  | DR bare                 | -              |

# Control Handles Oil Dispensing Equipment



| Dimensions inches (MM) |                |              |                |                |             |
|------------------------|----------------|--------------|----------------|----------------|-------------|
| A                      | B              | C            | D              | E              | F           |
| 24.4"<br>(620)         | 24.6"<br>(625) | 19"<br>(480) | 11.6"<br>(295) | 9.25"<br>(235) | 5"<br>(125) |

NOTE: fluids must be compatible with wetted materials

## Features

Balcrank's oil bar dispenser provides neat and convenient point-of-use dispensing for hand carried containers. This dispenser is easily incorporated into any fluid inventory control system.

- Up to four dispense points
- Heavy duty, metal body

### Includes:

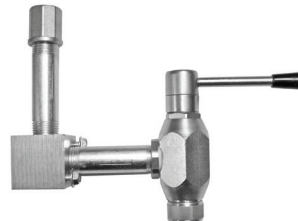
- One spigot (4200-012) with anti-splash, anti-drip diffuser nozzle
- Additional spigots sold separately

3

### TECHNICAL DATA

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Max. Working Pressure | 1,000 psi (68.9 bar)                                        |
| Spigot Inlet          | 1/2" NPT(F)                                                 |
| Recommended Fluids    | Lubricants, gear oil, ATF, hydraulic fluid, and anti-freeze |
| Wetted Materials      | Steel, aluminum, and Buna-N™                                |
| Service Bulletin      | SB 4038 (4200-014)<br>SB 4039 (4200-015)                    |

| MODEL AVAILABLE | DESCRIPTION                                         |
|-----------------|-----------------------------------------------------|
| <b>4200-014</b> | Oil Bar Dispenser<br>4 Position, 1 Spigot included  |
| <b>4200-015</b> | Oil Bar Dispenser<br>3 Position, 2 spigots included |



| MODEL AVAILABLE | DESCRIPTION |
|-----------------|-------------|
| <b>4200-011</b> | Spigot Only |

| MODEL AVAILABLE | DESCRIPTION                |
|-----------------|----------------------------|
| <b>4200-012</b> | Straight Stem for Oil Bars |

| MODEL AVAILABLE | DESCRIPTION                           |
|-----------------|---------------------------------------|
| <b>4200-013</b> | Goose neck (for use with taper pumps) |

### TECHNICAL DATA

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| Max operating pressure | 1,000 psi ( 68.9 bar)                                                                                                |
| Inlet port size        | 3/8" NPT(F)                                                                                                          |
| Recommended Fluids     | Lubricants, gear oil, ATF, Hydraulic Fluid, and anti-freeze<br>NOTE: fluids must be compatible with wetted materials |
| Wetted Parts           | Steel, Aluminum and Buna-N™                                                                                          |
| Service Bulletin       | SB 4037                                                                                                              |

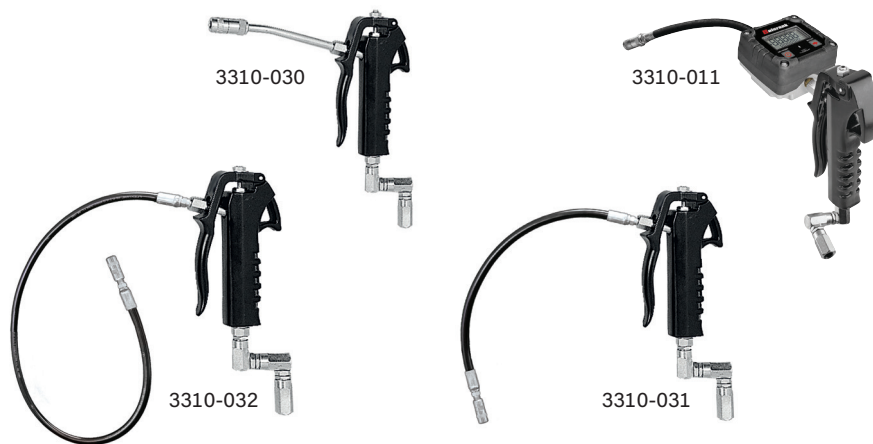
### TECHNICAL DATA

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| Max operating pressure | 1,000 psi ( 68.9 bar)                                                                                                |
| Inlet port size        | 1/2" NPT(F)                                                                                                          |
| Recommended Fluids     | Lubricants, gear oil, ATF, Hydraulic Fluid, and anti-freeze<br>NOTE: fluids must be compatible with wetted materials |
| Wetted Parts           | Steel, Aluminum and Buna-N™                                                                                          |
| Service Bulletin       | SB 4037                                                                                                              |

### TECHNICAL DATA

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| Max operating pressure | 1,000 psi ( 68.9 bar)                                                                                                |
| Inlet port size        | 3/4" NPT(F)                                                                                                          |
| Recommended Fluids     | Lubricants, gear oil, ATF, Hydraulic Fluid, and anti-freeze<br>NOTE: fluids must be compatible with wetted materials |
| Wetted Parts           | Steel, Aluminum and Buna-N™                                                                                          |
| Service Bulletin       | SB 4037                                                                                                              |

# Control Handles Grease - Comfort Grip and Pro Series



## Features

- Precision-machined, all steel handle and forged body provides reliable service
- Precise, proportional trigger action
- Balanced and knurled grip for less fatigue
- Easily repaired for extended life
- for use with pneumatic grease pumps
- Includes rigid lance, coupler and z-swivel. Some models include whip hoses

3

| TECHNICAL DATA      |                              |                     |
|---------------------|------------------------------|---------------------|
|                     | 3310-030, 3310-031, 3310-032 | 3310-011            |
| Max pressure Handle | 7,250 psi (500 bar)          | 7,250 psi (500 bar) |
| Whip Hose           | 5,000 psi (345 bar)          |                     |
| Z-Swivel            | 5,000 psi (345 bar)          |                     |
| Swivel inlet:       | 1/4" NPT(F)                  |                     |
| Compatible Fluids   | NLGI-2 Grease                |                     |
| Wetted Materials    | Steel and Aluminum           |                     |
| Service Bulletin    | SB 3093                      | SB 3093 + SB 3002   |

Ensure that all system components are rated for the max outlet pressure, especially pumps over 60:1 ratio

| MODELS AVAILABLE | DESCRIPTION                                       |
|------------------|---------------------------------------------------|
| <b>3310-011</b>  | Electronic-Metered Grease Handle, Flexible Outlet |
| <b>3310-030</b>  | Comfort Grip Grease Handle                        |
| <b>3310-031</b>  | Comfort Grip Grease Handle with 18" Whip Hose     |
| <b>3310-032</b>  | Comfort Grip Grease Handle with 36" Whip Hose     |



### Pro-Series

- Precision-machined, all steel handle and forged body provides reliable service
- Precise, proportional trigger action
- Balanced and knurled grip
- Inlet screen included
- for use with pneumatic grease pumps

| MODELS AVAILABLE | DESCRIPTION                                              |
|------------------|----------------------------------------------------------|
| <b>3310-008</b>  | Pro Series Grease Handle                                 |
| <b>3310-010</b>  | Pro Series Grease Handle with Z-swivel                   |
| <b>3310-025</b>  | Pro Series Grease Handle with 18" Whip Hose and Z-swivel |
| <b>3310-020</b>  | Pro Series Grease Handle with 36" Whip Hose and Z-swivel |

| TECHNICAL DATA    |                     |                                                      |
|-------------------|---------------------|------------------------------------------------------|
|                   | 3310-010            | 3310-009                                             |
| Max pressure      | 5,000 psi (345 bar) | 5,000 psi (345 bar) building to 10,000 psi (690 bar) |
| Swivel inlet      | 1/4" NPT(F)         | 1/4" NPT(F)                                          |
| Compatible Fluids | NLGI-2 Grease       | NLGI-2 Grease                                        |
| Wetted Materials  | Steel               | Steel                                                |
| Service Bulletin  | SB 3018             | SB 3006                                              |

Ensure that all system components are rated for the max outlet pressure, especially pumps over 60:1 ratio

### Pro Series Booster

The Pro Series Booster high pressure control handle is designed for use as a standard control handle and as a "Booster" when extreme pressures is required up to 10,000 psi.

| MODELS AVAILABLE | DESCRIPTION                                    |
|------------------|------------------------------------------------|
| <b>3310-007</b>  | Pro Series Booster Grease Handle               |
| <b>3310-009</b>  | Pro Series Booster Grease Handle with Z-swivel |

| DR METER                |                           |          |                      |                                      |                      |                                           |         |
|-------------------------|---------------------------|----------|----------------------|--------------------------------------|----------------------|-------------------------------------------|---------|
|                         | MODEL                     | MATERIAL | INLET/OUTLET THREADS | UNITS OF MEASURE                     | MAX PRESSURE         | COMPATIBLE FLUIDS                         | SB      |
|                         | 3120-091<br>DIGITAL METER | Aluminum | 1/2" NPT(F)          | Liters, Gallons, Quarts, and Pints   | 1,450 psi (100 bar)  | Oil, glycol, and coolant solutions        | SB 3095 |
|                         | 3120-013<br>PULSE METER   | CPVC     | 1/2" NPT(F)          | Liters, Gallons, Quarts, and Pints   | 1,450 psi (100 bar)  | Glycol, windshield wash solutions and DEF | SB 3107 |
|                         | 3120-114<br>PULSE METER   | Aluminum | 1/2" NPT(F)          | Liters, Gallons, Quarts, and Pints   | 1,500 psi (100 bar)  | Oil, glycol, and coolant solutions        | SB 3099 |
| MO METER                |                           |          |                      |                                      |                      |                                           |         |
|                         | MODEL                     | MATERIAL | INLET/OUTLET THREADS | UNITS OF MEASURE                     | MAX PRESSURE         | COMPATIBLE FLUIDS                         | SB      |
|                         | 3330-209                  | Aluminum | 1/2" NPT(F)          | Liter                                | 1,000 psi (70 bar)   | Oil, glycol, and coolant solutions        | SB 3113 |
|                         | 3330-210                  | Aluminum | 1/2" NPT(F)          | Quarts                               | 1,000 psi (70 bar)   | Oil, glycol, and coolant solutions        | SB 3113 |
| DR METER HIGHFLO        |                           |          |                      |                                      |                      |                                           |         |
|                         | MODEL                     | MATERIAL | INLET/OUTLET THREADS | UNITS OF MEASURE                     | MAX PRESSURE         | COMPATIBLE FLUIDS                         | SB      |
|                         | 3120-120<br>DIGITAL METER | Aluminum | 3/4" NPT(F)          | Liters, Gallons, Quarts, and pints   | 1,450 psi (100 bar)  | Oil, glycol and coolant solutions         | SB 3098 |
|                         | 3120-014<br>PULSE METER   | Aluminum | 3/4" NPT(F)          | Liters, Gallons, Quarts, and pints   | 1,450 psi (100 bar)  | Oil, glycol and coolant solutions         | SB 3108 |
| ELECTRONIC GREASE METER |                           |          |                      |                                      |                      |                                           |         |
|                         | MODEL                     | MATERIAL | INLET/OUTLET THREADS | UNITS OF MEASURE                     | MAX PRESSURE         | COMPATIBLE FLUIDS                         | SB      |
|                         | 3120-095                  | Aluminum | 1/8" NPT(F)          | Grams, Ounces, Kilograms, and Pounds | 10,150 psi (700 bar) | NLGI-2 Grease                             | SB 3002 |



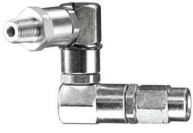


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## DR EXTENSIONS & NOZZLES

Verify ID of ATF fill port for compatibility

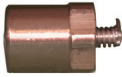




|                                                                                     | MODEL           | INLET       | EXT. TYPE                                              | NOZZLE                                        |
|-------------------------------------------------------------------------------------|-----------------|-------------|--------------------------------------------------------|-----------------------------------------------|
|    | <b>3332-098</b> | 1/2" NPT(M) | Rigid 60                                               | Auto<br>Tip OD = 0.605"                       |
|    | <b>3332-095</b> | 1/2" NPT(M) | Flex                                                   | Auto<br>Tip OD = 0.605"                       |
|    | <b>3332-094</b> | 1/2" NPT(M) | Flex 90                                                | Auto<br>Tip OD = 0.605"                       |
|    | <b>3332-099</b> | 1/2" NPT(M) | Flex Memory                                            | Auto<br>Tip OD = 0.605"                       |
|    | <b>3332-091</b> | 1/2" NPT(M) | Rigid 60                                               | for OIL<br>1/4 Turn Manual<br>Tip OD = 0.705" |
|    | <b>3332-100</b> | 1/2" NPT(M) | Flex                                                   | for OIL<br>1/4 Turn Manual<br>Tip OD = 0.705" |
|   | <b>3332-092</b> | 1/2" NPT(M) | Flex 90                                                | for OIL<br>1/4 Turn Manual<br>Tip OD = 0.705" |
|  | <b>3332-093</b> | 1/2" NPT(M) | Flex Memory                                            | for OIL<br>1/4 Turn Manual<br>Tip OD = 0.705" |
|  | <b>3332-101</b> | 1/2" NPT(M) | Rigid 60                                               | for ATF<br>1/4 Turn Manual<br>Tip OD = 0.315" |
|  | <b>3332-103</b> | 1/2" NPT(M) | Flex                                                   | for ATF<br>1/4 Turn Manual<br>Tip OD = 0.315" |
|  | <b>3332-102</b> | 1/2" NPT(M) | Flex 90                                                | for ATF<br>1/4 Turn Manual<br>Tip OD = 0.315" |
|  | <b>3332-104</b> | 1/2" NPT(M) | Flex Memory                                            | for ATF<br>1/4 Turn Manual<br>Tip OD = 0.315" |
|  | <b>3332-111</b> | 1/2" NPT(M) | Rigid Outlet                                           | No Tip (Use with DEF)                         |
|  | <b>3332-112</b> | 1/2" NPT(M) | Flexible Outlet                                        | No Tip (Use with DEF)                         |
|  | <b>3332-113</b> | 1/2" NPT(M) | Stainless Steel and Flex<br>90° 1/4" Turn, Not for DEF | for WWF<br>1/4 Turn Manual<br>Tip OD = 0.705" |

3

|                                                                                   |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Flexible Extensions<br/>Flexible whip hose extensions with crimped ends<br/>Includes adapter to attach to grease control handle</p>                                                        | <p><b>8390-002</b>, 18" Whip hose HP flexible extension<br/><b>8390-003</b>, 36" Whip hose HP flexible extension<br/><b>8390-004</b>, 42" Whip hose HP flexible extension</p> <p>Max. pressure 5,000 psi (345 bar). Hose end 1/8" NPT(M) on both ends.<br/>Compatible fluid NLGI-2 Grease</p> |
|  | <p>Grease Coupler<br/>Standard super grip coupler</p>                                                                                                                                         | <p><b>5200-017</b> Quick Lock grease coupler 1/8" NPT(F)</p> <p><b>5310-024</b> Grease coupler, 4-jaw. Max pressure 10,000 psi (690 bar).<br/>Threads 1/8" -27 NPT. Compatible Fluid: NLGI-2 Grease</p>                                                                                       |
|  | <p>Z-Swivel<br/>Swivel action for better control<br/>Installed between grease handle and fluid hose for freedom of motion<br/>Low friction ball bearing swivels<br/>High pressure packing</p> | <p><b>5310-018</b> Z-Swivel. Max pressure 5,000 psi (345 bar). Inlets: 1/4" NPT(F) x 1/4" NPT(M). Wetted materials: Steel</p>                                                                                                                                                                 |
|  | <p>Shrouds<br/>Protects vehicle or machine surfaces from scratches.</p>                                                                                                                       | <p><b>833398</b> Multi Colored set; red, yellow, green, blue (4 pcs)</p>                                                                                                                                                                                                                      |
|  | <p>See the difference<br/>Prevents Mix-ups<br/>Enhance Safety &amp; Efficiency<br/>Protect your Equipment</p>                                                                                 | <p><b>833994</b> Color-coded Swivel Covers: 4pcs set; red, yellow, green, blue</p>                                                                                                                                                                                                            |

3

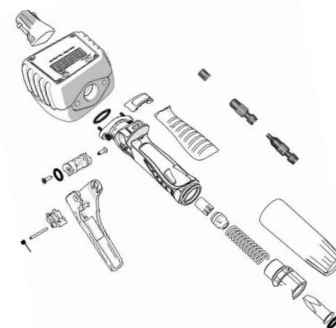
## NOZZLES

|                                                                                     | MODEL           | INLET       | TIP OD                                                 | MAX. FLOW                  | NOZZLE                        |
|-------------------------------------------------------------------------------------|-----------------|-------------|--------------------------------------------------------|----------------------------|-------------------------------|
|  | <b>3332-097</b> | 1/4" NPT(F) | 0.612"<br>Verify ID of ATF fill port for compatibility | 2.1 gal/min (8 l/min)      | Auto                          |
|  | <b>3332-096</b> | 1/4" NPT(F) | 0.710"<br>Verify ID of ATF fill port for compatibility | 3.7 gal/min (14 l/min)     | 1/4 Turn Manual for OIL ports |
|  | <b>3332-105</b> | 1/4" NPT(F) | 0.312"<br>Verify ID of ATF fill port for compatibility | 3.7 gal/min (14 l/min)     | 1/4 Turn Manual for ATF ports |
|  | <b>3332-090</b> | 3/8" NPT(F) | 0.548"<br>Verify ID of ATF fill port for compatibility | 5.0 gal/min (18.9 l/min)   | Semi-Auto                     |
|                                                                                     | <b>3332-109</b> | 1/4" NPT(F) | 0.548"<br>Verify ID of ATF fill port for compatibility | 5.0 gal/min (18.9 l/min)   | Semi-Auto                     |
|  | <b>3332-107</b> | 1/2" NPT(F) | -                                                      | 15.5 gal/min (58.79 l/min) | Semi-Auto HighFlo             |

# Control Handle Repair Kits

## DR METER

| HANDLE MODELS | KIT NUMBER    | DESCRIPTION              |
|---------------|---------------|--------------------------|
| All DR handle | <b>833306</b> | Inlet Swivel             |
| All DR handle | <b>833307</b> | Trigger                  |
| All DR handle | <b>833308</b> | Valve                    |
| All DR handle | <b>833309</b> | Cam kit                  |
| DR Meter      | <b>833381</b> | O-ring                   |
| DR Meter      | <b>833310</b> | Gears kit                |
| DR Meter      | <b>833873</b> | Circuit Board Kit        |
| DR Meter      | <b>833917</b> | Face Plate/Battery Cover |



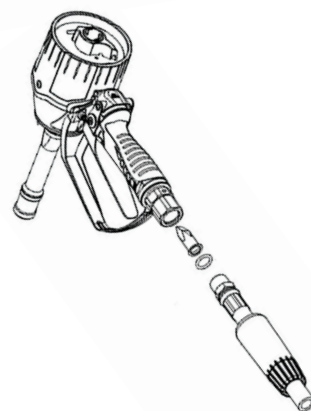
## MO METER

| HANDLE MODELS | KIT NUMBER    | DESCRIPTION  |
|---------------|---------------|--------------|
| All MO handle | <b>833306</b> | Inlet Swivel |
| All MO handle | <b>833307</b> | Trigger      |
| All MO handle | <b>833308</b> | Valve        |
| All MO handle | <b>833309</b> | Cam kit      |
| MO Meter      | <b>833381</b> | O-ring       |



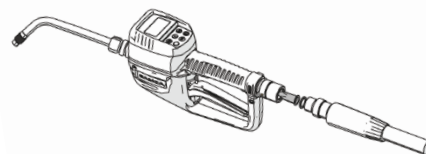
## MR HANDLE

| HANDLE MODELS | KIT NUMBER    | DESCRIPTION                              |
|---------------|---------------|------------------------------------------|
| All MR handle | <b>833385</b> | Kit, Knob, MR Meter                      |
| All MR handle | <b>833386</b> | Kit, Shroud, MR Meter, Quarts            |
| All MR handle | <b>833387</b> | Kit, Shroud, MR Meter, Liters            |
| All MR handle | <b>833388</b> | Kit, Gear & Inner Dial, MR Meter, Quarts |
| All MR handle | <b>833389</b> | Kit, Gear & Inner Dial, MR Meter, Liters |
| All MR handle | <b>833390</b> | Kit, Totalizer, MR Meter                 |
| All MR handle | <b>833391</b> | Kit, Metering Chamber, MR Meter, Quarts  |
| All MR handle | <b>833392</b> | Kit, Metering Chamber, MR Meter, Liters  |
| All MR handle | <b>833393</b> | Kit, Packing Gland, Housing, MR Meter    |
| All MR handle | <b>833306</b> | Kit, Inlet Swivel - DR Handle            |
| All MR handle | <b>833307</b> | Kit, Trigger - DR Handle                 |
| All MR handle | <b>833308</b> | Kit, Valve - DR Handle                   |
| All MR handle | <b>833309</b> | Kit, Cam - DR Handle                     |



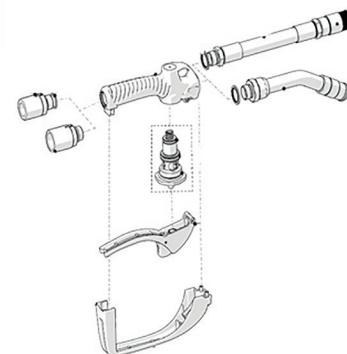
## EP METER

| HANDLE MODELS | KIT NUMBER    | DESCRIPTION       |
|---------------|---------------|-------------------|
| All EP handle | <b>833924</b> | Oval Gear Kit     |
| All EP handle | <b>833925</b> | Electronic Module |
| All EP handle | <b>833926</b> | Valve Sealing Kit |



## HIGHFLO METER

| HANDLE MODELS           | KIT NUMBER    | DESCRIPTION                                        |
|-------------------------|---------------|----------------------------------------------------|
| 3320-051, 052, 053, 054 | <b>833376</b> | 3/4" NPT swivel with strainer and O-ring           |
| 3320-051, 052, 053, 054 | <b>833377</b> | Control valve body with 1" swivel                  |
| 3320-051, 052, 053, 054 | <b>833380</b> | Flex extension with Semi-Auto tip and bonded seal  |
| 3320-051, 052, 053, 054 | <b>833379</b> | Rigid extension with Semi-Auto tip and bonded seal |

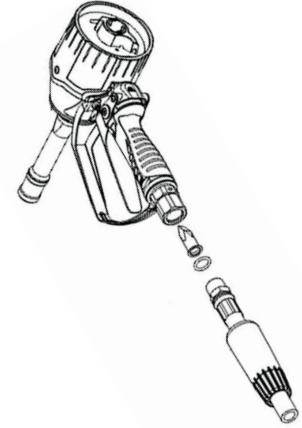


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# Control Handle Repair Kits

## MR HANDLE PRE-SET

| HANDLE MODELS         | KIT NUMBER    | DESCRIPTION                               |
|-----------------------|---------------|-------------------------------------------|
| All Pre-Set MR handle | <b>833594</b> | Kit, Inlet Swivel - DR Handle             |
| All Pre-Set MR handle | <b>833580</b> | Kit, Knob, MR Preset                      |
| All Pre-Set MR handle | <b>833581</b> | Kit, Shroud, MR Preset, Liters            |
| All Pre-Set MR handle | <b>833582</b> | Kit, Shroud, MR Preset, Quarts            |
| All Pre-Set MR handle | <b>833583</b> | Kit, Shroud, MR Preset, Gallons           |
| All Pre-Set MR handle | <b>833584</b> | Kit, Gears, MR Preset, Liters             |
| All Pre-Set MR handle | <b>833585</b> | Kit, Gears, MR Preset, Quarts             |
| All Pre-Set MR handle | <b>833586</b> | Kit, Gears, MR Preset, Gallons            |
| All Pre-Set MR handle | <b>833587</b> | Kit, Totalizer, MR Preset, Liters         |
| All Pre-Set MR handle | <b>833588</b> | Kit, Totalizer, MR Preset, Qts/Gal        |
| All Pre-Set MR handle | <b>833589</b> | Kit, Metering Chamber, MR Preset, L       |
| All Pre-Set MR handle | <b>833391</b> | Kit, Metering Chamber, MR Preset, Qts/Gal |
| All Pre-Set MR handle | <b>833591</b> | Kit, Lock Mechanism, MR Preset            |
| All Pre-Set MR handle | <b>833592</b> | Kit, Handle Cam, MR Preset                |
| All Pre-Set MR handle | <b>833593</b> | Kit, Handle Valve, MR Preset              |
| All Pre-Set MR handle | <b>833594</b> | Kit, Swivel, MR Preset                    |
| All Pre-Set MR handle | <b>833381</b> | O-Ring/ Buna/24Mm Id X 2Mm Cs/Dr Meter    |
| All Pre-Set MR handle | <b>833393</b> | Kit, Packing Gland, Housing, MR Meter     |



3

## PULSE METERS

| METER MODELS      | KIT NUMBER    | DESCRIPTION                       |
|-------------------|---------------|-----------------------------------|
| <b>DR FOR DEF</b> |               |                                   |
| 3120-116          | <b>833507</b> | DR Meter Face with Electronic Kit |

## DR STYLE

|          |               |          |
|----------|---------------|----------|
| 3120-114 | <b>833687</b> | Gear Kit |
|----------|---------------|----------|

## DR STYLE METER HIGH FLOW

|          |               |                                          |
|----------|---------------|------------------------------------------|
| 3120-120 | <b>833508</b> | Gears Kit                                |
| 3120-120 | <b>833873</b> | Circuit Board Kit                        |
| 3120-120 | <b>833376</b> | 3/4" NPT swivel with strainer and O-ring |
| 3120-120 | <b>833917</b> | Face Plate/Battery Cover                 |





# FLUID INVENTORY CONTROL

|                                                            |     |
|------------------------------------------------------------|-----|
| Fluid Inventory Control Product Selection Matrix . . . . . | 126 |
| Nex-U® . . . . .                                           | 127 |
| TM Control . . . . .                                       | 143 |
| Pump Sentinel . . . . .                                    | 144 |

# Fluid Inventory Control Product Selection Matrix

**NEXU**

**NEXU**

| FEATURES                                | NEXU-                                       | NEXU- COMPACT |
|-----------------------------------------|---------------------------------------------|---------------|
| Max. number of dispense points          | Unlimited                                   | 8             |
| Max. number of fluids                   | Without U-tank: Unlimite<br>With U-tank: 50 | 8             |
| Fluid names                             | ✓                                           | ✓             |
| Number of keypads                       | Without U-tank: Unlimited With U-tank: 50   | 1             |
| Job number validation                   | ✓                                           | No            |
| Job numbers                             | ✓                                           | No            |
| Simultaneous keypad operation           | ✓                                           | No            |
| Simultaneous dispense                   | ✓                                           | ✓             |
| Max. number of tanks                    | Without U-tank: Unlimited With U-tank: 50   | 8             |
| Calculated tank declining balance       | ✓                                           | ✓             |
| Real-time tank monitoring               | ✓                                           | No            |
| Tank report over e-mail                 | ✓                                           | No            |
| PIN code validation                     | ✓                                           | No            |
| Operation PIN codes                     | ✓                                           | ✓             |
| Max. number of PINs                     | Unlimited                                   | Unlimited     |
| Extensive user permission configuration | ✓                                           | No            |
| Preset volumes                          | ✓                                           | ✓             |
| Hose Reel ID                            | ✓                                           | ✓             |
| Operator names                          | ✓                                           | ✓             |
| Dispense from keypads                   | ✓                                           | ✓             |
| Dispense from PC                        | ✓                                           | No            |
| Dispense from smart phone/tablet        | ✓                                           | No            |
| Max. number of transaction history      | U-track: Unlimited<br>U-dat: 5000           | Unlimited     |
| Print reports                           | ✓                                           | No            |
| Print receipt                           | ✓                                           | No            |
| Custom reports                          | ✓                                           | No            |
| Bar Code / Card reader / Dallas Key     | ✓                                           | No            |
| Wireless                                | ✓                                           | No            |
| Bluetooth                               | ✓                                           | No            |
| DMC Integration - CDK                   | ✓                                           | No            |

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# Fluid Inventory Control Nex-U.®

## NEX-U.® Fluid Monitoring Systems

NEX-U.® provides you with the control and the information you require to make your operation more profitable. You will be able to account for every drop of lubricant and other service fluids used.



4

### Today's Challenges

Lost inventory equals lost profit; with today's high oil prices, inventory control eliminates that concern.

### The Solution

For almost any lubricant usage or shop size, with today's high cost for these fluids, NEX-U.® quickly pays for itself. Once it is paid for, savings go right to the operation's bottom line in the form of profit; profit previously lost.

NEX-U.® has been conceived with the user in mind, making fluid management and fluid inventory control an easy and trouble-free activity.

### NEX-U.® adapts to your way of working

NEX-U.® is a hybrid system that brings you all the advantages of wireless flexibility and hard-wired reliability



### NEX-U.® can interface with CDK.

It offers an efficient bi-directional communication between Nex-U and the workshop DMS.

### Wireless flexibility

- Data can be transmitted wirelessly among the different system components, eliminating long and expensive cable runs
- Easily adds new components when required as your needs grow
- System uses existing Wi-Fi® networks, simplifying its installation. No need for special, custom made, network components

### Hard-wired reliability

- A constant and reliable power source is always present to power the solenoid valves that control fluid delivery.
- No uncharged batteries to let you down.
- Hard-wired data transmission to avoid interferences and other obstacles which might interfere with wireless data transmission

### NEX-U.® contributes to increased productivity in vehicle service operations

- Provides total control and record of every fluid dispensed
- Secures fluid access to authorized technicians only
- Provides accurate, real-time fluid inventory information

### NEXUS + YOU = NEX-U.®



NEX-U.® combines the Latin word "NEXUS", which means connection to wireless or hard-wired connected system components, with "U" (You), the system User, the Human.

**NEX-U.® installation must be performed by a Balcrank NEX-U.® Certified Distributor. Contact your Balcrank representative for additional information.**

# Fluid Inventory Control

## Nex-U® U-net

U-net is the key NEX-U® component. It is the central processing unit that controls the system communications and houses the U-track software.

### Features

- U-net includes a powerful 2.4 GHz processor and 4 GB RAM
- It controls the system functions and manages the wired and wireless communication between the NEX-U® components
- It has two CAN BUS ports (in/out) for wired communications with other NEX-U® components and an ethernet port that allows U-net to connect to the shop LAN



4

#### COMPONENT TECHNICAL DATA

|                            |                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function                   | Central processing unit that controls the system communications and houses the U-track software                                                               |
| Requirements & Limitations | Intel 2,4 GHz processor<br>- 4 GB RAM memory<br>- 64 GB storage capacity<br>- One Ethernet connection, one HDMI, four USB and two CAN BUS communication ports |
| Power                      | 110-240V AC - 5V DC transformer included                                                                                                                      |

#### MODELS AVAILABLE

|                 |                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------|
| <b>3110-150</b> | Unit with antenna                                                                                             |
| <b>3110-133</b> | Virtual Keypad license. Converts any terminal (PC, laptop, tablet or smartphone) into a NEX-U® access Keypad. |

#### U-net also includes the U-track software

U-track is a powerful web-based software package that gives you full control of fluid usage and inventory. It is a web-based software that allows multi-user applications. All PCs or tablets in the same network and in the same location can have access to U-track. U-track can work using any web browser.

Compatible with: Chrome, Firefox, and Microsoft Edge.

#### U-track benefits:

- Simple and intuitive system set-up
- Simplified system maintenance (manage users, fluid inventory, etc.)
- Manage all the system hard-wired and wireless communication
- Generate a wide variety of reports, which can be easily exported to CSV and txt formats
- Record and manage Validated Preset Transactions (required for operating with U-Vision<sup>+</sup>)
- Transform any PC terminal in the workshop into a NEX-U® virtual keypad license required

#### U-track also contributes to increasing your operations efficiency and profitability:

- Keeps control of the quantity of fluid dispensed in the system
- Improves inventory accuracy, generating automatic warnings and email notifications for reorders at critical predefined inventory levels
- Generates a variety of reports, to help you track dispense information such as date and time, technician, work order, fluid dispensed, volume delivered, etc.

# Fluid Inventory Control

## NEX-U.® U-dat & U-dat Power+

U-dat allows system access to technicians either through a PIN code or by using an RFID card.



## Features

- U-dat includes a 7" full color graphics display and a complete QWERTY keypad
- U-dat supports CAN BUS cable communications that carry data and power to open the solenoid valves in the system. "Plug-and-play" connectors make cabling easy
- U-dat includes the transformer required to simultaneously open up to 8 solenoid valves

**Power cord not included, use 3130-001.**

**Optional Bluetooth printer (see accessories pg. 139).**



| COMPONENT TECHNICAL DATA   |                                                                                    |
|----------------------------|------------------------------------------------------------------------------------|
| Function                   | Allows system access to technicians either through a PIN code or using a RFID card |
| Requirements & Limitations | - Requires 110 - 240 V AC<br>- CAN BUS in/out                                      |
| Power                      | U-dat requires 110 - 240 V power supply                                            |
| Service Bulletin           | SB 3806                                                                            |

| MODELS AVAILABLE |                                                                                                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3110-100</b>  | U-dat power+ keypad<br>NEX-U.® access keypad with 7" color screen and QWERTY keypad. One USB, one RS232 and in/out CAN BUS ports. 110 - 240 V AC, with a 320 W transformer to open 8 solenoid valves, supports CAN BUS communications. |
| <b>3110-104</b>  | U-dat power keypad<br>NEX-U.® access keypad with 7" color screen and QWERTY keypad. One USB, one RS232 and in/out CAN BUS ports. 110 - 240 V AC, with a 75 W transformer to open 2 solenoid valves, supports CAN BUS communications.   |

### NEX-U.® adapts to the way you work and it offers multiple possibilities for accessing the system.

Technicians can access NEX-U.® via:

- U-dat: System access keypad
- U-vision+
- Any device connected to the same network as U-net (laptop, smartphone or tablet)

### U-dat connection panel

All wired connections can be quickly and easily done without opening the U-dat.

It is possible to connect a printer, an external RFID reader, or a barcode reader to the RS-232 port.

Compatible with: Chrome, Firefox, and Microsoft Edge.

**Mounting requires Vesa Bracket**

# Fluid Inventory Control

## Nex-U® U-vision & U-vision+

U-vision+ adapts to any Balcrank oil control handle and transforms the handle into a hand-held display and keypad for access to the NEX-U® system.



## Features

Use the U-vision to display reel, battery level, and delivery. Use U-vision+ to dispense and to interact with the system.

- Modular design fits standard non-metered control handle
- Display dispensed data
- Display and input data

**Non-metered control handle not included. Choose handle to fit your needs (pg. 108).**

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| COMPONENT TECHNICAL DATA |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Function                 | Hand held display module                                                |
| Requirements             | Non-metered control handle, select on pg. 93                            |
| Power                    | U-vision+ and U-vision are powered with 4 "AA" 1.5 V alkaline batteries |
| Service Bulletin         |                                                                         |
| U-vision                 | SB 3803                                                                 |
| U-vision+                | SB 3809                                                                 |

| MODELS AVAILABLE |                                                                              |
|------------------|------------------------------------------------------------------------------|
| 3110-112         | U-vision hand-held display module                                            |
| 3110-113         | U-vision+ hand-held keypad and display module. (Control handle not included) |

## U-vision

Hand-held display module to fit a Balcrank oil control handle. Includes a backlight display connected via Bluetooth® with a U-valve, U-meter+ or U-count module and it displays the following parameters:

- Hose reel (fluid outlet number and fluid dispensed type)
- Battery life and Bluetooth® signal strength
- Volume delivered and operation progress
- Solenoid valve open or closed

## U-vision+

U-vision+ includes a six-button keypad and it can replace the U-dat keypad for data entry in the system as it allows the following operations:

- User access through PIN entry
- Scroll through existing open job orders to select the one corresponding to each operation or enter the job order number (digits only)
- Enter the volume of fluid to be dispensed
- Confirm fluid type and transaction

## Features

- Dispensing Meter Valve with wireless communication and RFID module
- Metered Dispensing Valve allows full transaction control and track

**Optional ZigBee Signal Repeater (see accessories pg. 139).**



4

### COMPONENT TECHNICAL DATA

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Units of measure        | Batch: Gallons, Quarts, Pints, and Liters (in 0.01 increments)                |
| Accuracy                | ± 0.5 % (Oil); ± 1% (Coolant solutions)                                       |
| Flow Range              | 0.25 to 7.25 gal/min (1-30 l/min)                                             |
| Maximum pressure        | 1,425 psi (100 bar)                                                           |
| Swivel inlet            | 1/2" NPT(F)                                                                   |
| Swivel outlet           | 1/2" NPT (F)                                                                  |
| Viscosity Range         | Up to 2000 mPa.s                                                              |
| Display                 | LCD                                                                           |
| Operating temperature   | 14 °F to 122 °F (-10 °C to 50 °C)                                             |
| Weight (with no outlet) | 4.6 lb (1.2 kg)                                                               |
| Battery                 | 4 x AA Alkaline 1.5V                                                          |
| Compatible Fluids       | Motor oil, hydraulic oil, Anti-freeze, gear oil, automatic transmission fluid |
| Wetted Materials        | Aluminum, Buna-N®, Zinc plated steel, AISI 316 stainless steel, Brass, Delrin |
| Service Bulletin        |                                                                               |

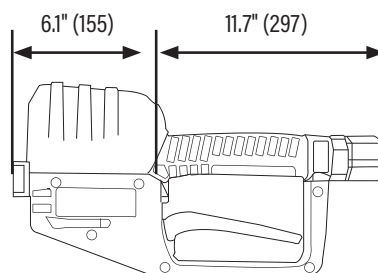
### MODELS AVAILABLE

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| <b>3110-152</b> | U-link, no outlet                                          |
| <b>3110-153</b> | U-link, with 60° rigid outlet and 1/4 turn non drip tip    |
| <b>3110-154</b> | U-link, with 90° flexible outlet and 1/4 turn non drip tip |

### CATEGORY SPECIFICATION

|                |                                                     |
|----------------|-----------------------------------------------------|
| Frequency band | ISM 2.4 GHz, DSSS (Direct Sequence Spread Spectrum) |
| Protocol       | Wireless communication and RFID                     |
| Encryption     | 128/256 bit AES                                     |

Dimensions in (mm)



# Fluid Inventory Control

## Nex-U.® U-valve & U-valve+

U-valve is a compact unit combining a high accuracy pulse meter, a solenoid valve and a large cleanable fluid screen filter with an electronic module. This module is required to control the meter and valve operation and to communicate with other system components.



## Features

- Reduces installation time and eliminates the risk of leaks when using separate components
- It has a large, high visibility LED display which shows the U-valve number assigned in the system and the U-valve operation
- Four different LED lights that show the U-valve operation for diagnosis and two buttons for system configuration
- U-valve supports CAN BUS cable communication that transmits data and the electric power required to open the solenoid valve and Bluetooth® connection to a U-vision or a U-vision+ fluid handle with display
- U-valve+ includes Wi-Fi® communications for data transmission to other system components

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### COMPONENT TECHNICAL DATA

|                            |                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------|
| Function                   | - Controls on/off function<br>- Dispense flow controls and monitors<br>- Communicates data to U-net system |
| Requirements & Limitations | Requires U-power/U-power+ or U-dat/U-dat power+ power supply units                                         |
| Power                      | U-valve and U-valve+ require 24 V DC supplied by a U-dat or a U-power module                               |
| Service Bulletin           | SB 3802                                                                                                    |

### MODELS AVAILABLE

|                 |                                                                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3110-115</b> | U-valve meter, solenoid valve and electronic module.<br>Includes Bluetooth® communication for connecting to a U-vision or U-vision+                                                   |
| <b>3110-114</b> | U-valve+ meter, solenoid valve and electronic module.<br>Includes Bluetooth® connection to a U-vision or U-vision+ and Wi-Fi® for data transmission to other components in the system |

### PRODUCT SPECIFICATIONS

|                          |                                                                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wetted parts             | Aluminum, NBR, stainless steel, acetal                                                                                                                         |
| Applications             | Lubricants, antifreeze solutions<br>* If fluid additives are used, it is recommended to install stainless steel pulse meter and stainless steel solenoid valve |
| Connection threads       | 1/2" NPT(F)                                                                                                                                                    |
| Flow range               | 1-32 qt/min (1-30 l/min)                                                                                                                                       |
| Pulses per quart         | 310 ppq (328 ppl)                                                                                                                                              |
| Accuracy                 | +/- 0.5 %                                                                                                                                                      |
| Maximum working pressure | 1,450 psi (100 bar)                                                                                                                                            |
| Solenoid valve           | 24 V DC                                                                                                                                                        |
| Communication            | CAN BUS, Bluetooth®, Wi-Fi® (U-valve+ only)                                                                                                                    |

# Fluid Inventory Control

## Nex-U<sup>®</sup> U-meter & U-meter<sup>+</sup>

High accuracy, compact pulse meter including the electronic module required to control the meter and valve operation and to communicate with other system components through CAN BUS.



3110-118



3110-117

## Features

- The meter has an LED display showing the U-meter number assigned in the system, four different LED lights that show the U-meter operation for diagnosis and two buttons for system configuration
- Equipped with fast connection in/out CAN BUS terminals
- Available in different materials and sizes to match different applications

**NOTE:** U-meter<sup>+</sup> includes Bluetooth<sup>®</sup> connection to a U-vision or a U-vision<sup>+</sup> module.

4

### COMPONENT TECHNICAL DATA

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| Function                   | In-line meter                                                                            |
| Requirements & Limitations | Requires U-power or U-power <sup>+</sup> power supply units. Order solenoid separately   |
| Power                      | U-valve and U-valve <sup>+</sup> require 24 V DC supplied by a U-dat or a U-power module |

### MODELS AVAILABLE

|                 |                                               |
|-----------------|-----------------------------------------------|
| <b>3110-139</b> | U-meter 1/2" NPT(F) Lube                      |
| <b>3110-122</b> | U-meter 3/4" NPT(F) Lube, diesel              |
| <b>3110-120</b> | U-meter 1/2" BSPP DEF, WW, AF                 |
| <b>3110-118</b> | U-meter 1/2" BSPP DEF, WW, AF                 |
| <b>3110-117</b> | U-meter <sup>+</sup> 1/2" NPT(F) Lube         |
| <b>3110-123</b> | U-meter <sup>+</sup> 3/4" NPT(F) Lube, diesel |
| <b>3110-121</b> | U-meter <sup>+</sup> 1/2" BSPP DEF, WW, AF    |
| <b>3110-119</b> | U-meter <sup>+</sup> 1/2" BSPP DEF, WW, AF    |

| U-METER <sup>+</sup> , MODELS WITH BLUETOOTH PART NO. | 3110-117                               | 3110-123                               | 3110-121                                                       | 3110-119                                                  |
|-------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------|
| U-METER PART NO.                                      | 3110-139                               | 3110-122                               | 3110-120                                                       | 3110-118                                                  |
| Wetted Materials                                      | Aluminum, NBR, stainless steel, acetal | Aluminum, NBR, stainless steel, acetal | PVC, Vectra <sup>®</sup> , stainless steel, Viton <sup>®</sup> | Stainless steel, Vectra <sup>®</sup> , Viton <sup>®</sup> |
| Applications                                          | Lubricants                             | Lubricants, diesel                     | DEF, WW, AF                                                    | DEF, WW, AF                                               |
| Connection threads                                    | 1/2" NPT(F)                            | 3/4" NPT(F)                            | 1/2" BSPP                                                      | 1/2" BSPP                                                 |
| Flow range                                            | 1 - 32 qt/min (1 - 30 l/min)           | 8.4 - 84.4 qt/min (8 - 80 l/min)       | 1 - 52.8 qt/min (1 - 50 l/min)                                 | 1 - 52.8 qt/min (1 - 50 l/min)                            |
| Pulses per quart                                      | 310 ppq (328 ppl)                      | 103 ppq (109 ppl)                      | 303 ppq (320 ppl)                                              | 303 ppq (320 ppl)                                         |
| Accuracy                                              | +/- 0.5 %                              | +/- 0.5 %                              | +/- 0.5 %                                                      | +/- 0.5 %                                                 |
| Max working PSI                                       | 1,450 psi (100 bar)                    | 1,450 psi (100 bar)                    | 1,450 psi (100 bar)                                            | 1,450 psi (100 bar)                                       |
| Communications                                        | CAN BUS                                | CAN BUS                                | CAN BUS                                                        | CAN BUS                                                   |
| Service Bulletin                                      | SB 3801                                | SB 3810                                | SB 3801                                                        | SB 3808                                                   |

Only for connection with U-dat, U-valve, or an adjacent U-meter. Requires a 24 V DC solenoid valve.

### U-METER SOLENOID KITS

|                    | 3110-125         | 3110-126                      | 3110-127                                | 3110-128                                | 3110-130         | 3110-131                      |
|--------------------|------------------|-------------------------------|-----------------------------------------|-----------------------------------------|------------------|-------------------------------|
| Applications       | Lubricants, AF   | Lubricants, AF                | High delivery lubricants & AF solutions | High delivery lubricants & AF solutions | DEF and WW (LP)  | DEF and WW (LP)               |
| Connection threads | 1/2" NPT(F)      | 1/2" NPT(F)                   | 3/4" NPT(F)                             | 3/4" NPT(F)                             | 1/2" BSPP(F)     | 1/2" BSPP(F)                  |
| Pulse meter        | 3110-139 U-meter | 3110-117 U-meter <sup>+</sup> | 3110-122 U-meter                        | 3110-123 U-meter <sup>+</sup>           | 3110-120 U-meter | 3110-121 U-meter <sup>+</sup> |
| Solenoid valve     | 3120-217         | 3120-217                      | 3120-218                                | 3120-218                                | 3120-226         | 3120-226                      |
| Y-strainer         | 3120-211         | 3120-211                      | 3120-212                                | 3120-212                                | 3120-211         | 3120-211                      |

# Fluid Inventory Control

## Nex-U® U-count & U-view

U-count fluid control module includes a high visibility LED display and the software required to function with the rest of the NEX-U® system components.



3110-135

### Features

**U-count** fluid control module includes a high visibility LED display and the software required to function with the rest of the NEX-U® system components.

The LED display shows the number assigned in the system and four different LED lights show the operation of the valve for diagnosis and two buttons for system configuration. U-count supports CAN BUS hard-wired communication that transmits data and power required to open the solenoid valve, for data communication with other system components and Bluetooth® to communicate with a U-vision or U-vision+ handle.

| U-COUNT          | 3110-135                                                                               |
|------------------|----------------------------------------------------------------------------------------|
| Description      | Fluid meter and solenoid valve controller includes Bluetooth®, CAN BUS communications. |
| Service Bulletin | SB 3805                                                                                |

| MODELS AVAILABLE |                                    |
|------------------|------------------------------------|
| 3110-135         | U-count meter, solenoid, bluetooth |

## U-count

The U-count allows the use of external solenoid/meter combination to control almost any fluid:

- DEF
- Highflow Oil
- Grease
- WW Fluid
- Anti-freeze



3110-134

### Features

**U-view** has remote, high visibility, LED display that shows the volume delivered through various U-valves (no simultaneous operation supported). U-view supports Wi-Fi® and hardwired communication.

| U-VIEW           | 3110-134                     |
|------------------|------------------------------|
| Description      | U-view remote display module |
| Service Bulletin | SB 3804                      |

| MODELS AVAILABLE |                              |
|------------------|------------------------------|
| 3110-134         | U-view remote display module |

## U-view

U-view requires hard-wired connection (data and power) to a U-dat keypad or to a 110 - 240 V AC power supply using a 24 V DC external transformer (U-power or U-power+).

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# Fluid Inventory Control Nex-U.® Compact

NEX-U.® also offers solutions for smaller workshops where web-based software is not needed. NEX-U.® Compact is a simple system based on a special U-dat keypad that is able to control a maximum of 8 dispensing points.



## Features

The Keypad includes a 7" colored screen and a simplified version of the U-track software. The software included provides workshops with:

- Full control of bulk stored fluid usage.
- Inventory control using declining balance method. NEX-U.® Compact will give a warning signal once a certain inventory is reached, and restricts access to those outlets that have run out of inventory.
- Ability to generate full reports in CSV format that can provide useful management information.

NEX-U.® Compact 75.

With a 75 W transformer for opening up to 2 solenoid valves and dispensing 2 fluids

NEX-U.® Compact 320.

With a 320 W transformer for opening up to 8 solenoid valves and dispensing 8 fluids

**Power cord not included, use 3130-001.**

**NEX-U.® Compact does not support working within a network or PC connection.**



| NEX-U.® COMPACT  | 3110-101 & 3110-103    |
|------------------|------------------------|
| Description      | NEX-U.® Compact keypad |
| Service Bulletin | SB 3806                |

| MODELS AVAILABLE |                      |
|------------------|----------------------|
| <b>3110-101</b>  | NEX-U.® Compact 75   |
| <b>3110-103</b>  | NEX-U.® Compact 320. |



**Mounting requires Vesa Bracket**

# Fluid Inventory Control Nex-U® Mobile

NEX-U® Mobile allows fluid inventory and usage control in mobile service trucks. NEX-U® Mobile is a special U-dat keypad module, which includes the software required for an autonomous operation, can control up to maximum of 8 fluid outlets. Completed transactions can be saved to a USB memory stick in an Excel format.



## Features

NEX-U® MOBILE can work with any NEX-U® fluid meter: U-valve; U-meter or U-meter+ with 24 V DC solenoid valve and filter.

Standard U-count and U-pulser solenoid valve are compatible with NEX-U® Mobile as long as they are connected to a 24 V DC solenoid valve.

NEX-U® Mobile Keypad  
24 V DC keypad or opening up to 8 solenoid valves and dispensing 8 fluids

4

| NEX-U® MOBILE    | 3110-102                     |
|------------------|------------------------------|
| Description      | NEX-U- Mobile keypad 24 V DC |
| Service Bulletin | SB 3806                      |

| MODEL AVAILABLE |                      |
|-----------------|----------------------|
| 3110-102        | NEX-U- Mobile keypad |



Mounting requires Vesa Bracket

# Fluid Inventory Control Nex-U® U-pulser

U-pulser high accuracy in-line pulse meter.

## Features

U-pulser high accuracy in-line pulse meter. Equipped with connection terminal and valve open indication light.

This meter does not have a display or function buttons and requires a 24 V DC solenoid valve.

**Only for connection to a U-count module.**



| U-PULSER METER     | 3120-114                               | 3120-014                               | 3120-013                              | 3120-227                         | 3120-228                               |
|--------------------|----------------------------------------|----------------------------------------|---------------------------------------|----------------------------------|----------------------------------------|
| Wetted Materials   | Aluminum, NBR, stainless steel, acetal | Aluminum, NBR, stainless steel, acetal | PVC, Vectra®, stainless steel, Viton® | Stainless steel, Vectra®, Viton® | Aluminum, acetal, NBR, Stainless steel |
| Applications       | Lubricants                             | Oil, diesel                            | DEF, WW and AF solutions              | DEF, WW and AF solutions         | Oil, diesel                            |
| Connection threads | 1/2" NPT(F)                            | 3/4" NPT(F)                            | 1/2" BSPP                             | 1/2" BSPP                        | 1" NPT(F)                              |
| Flow range         | 1-32 qt/min (1-30 l/min)               | 8.4-84.4 qt/min (8-80 l/min)           | 1-52.8 qt/min (1-50 l/min)            | 1 - 52.8 qt/min (1 - 50 l/min)   | 10.4-84.4 qt/min (10-80 l/min)         |
| Pulses per quart   | 310 ppq (328 ppl)                      | 104 ppq (110 ppl)                      | 303 ppq (320 ppl)                     | 303 ppq (320 ppl)                | 104 ppq (110 ppl)                      |
| Accuracy           | +/- 0.5 %                              | +/- 0.5 %                              | +/- 0.5 %                             | +/- 0.5 %                        | +/- 0.5%                               |
| Max working PSI    | 1,450 psi (100 bar)                    | 1,450 psi (100 bar)                    | 435 psi (30 bar)                      | 1,450 psi (100 bar)              | 1,450 psi (100 bar)                    |
| Service Bulletin   | SB 3099                                | SB 3108                                | SB 3107                               | SB 3811                          | SB 3812                                |

| MODELS AVAILABLE |                                                             |
|------------------|-------------------------------------------------------------|
| <b>3120-114</b>  | U-pulser 1/2" NPT(F) Lube, AF                               |
| <b>3120-014</b>  | U-pulser 3/4" NPT(F) Oil, glycol, coolant solutions, diesel |
| <b>3120-013</b>  | U-pulser 1/2" BSPP DEF, WW, AF                              |
| <b>3120-227</b>  | U-pulser 1/2" BSPP DEF, WW, AF                              |
| <b>3120-228</b>  | U-pulser 1" NPT(F) DEF, WW, AF                              |

4

# Fluid Inventory Control

## Nex-U® U-tank

Provides real-time inventory control, reducing concerns about running out of inventory or used fluid tanks overflow.



## Features

U-tank is a monitor module capable of controlling two tanks using digital or analog level gauges. Can be connected to solenoid valves to control pump operation, and to external warning devices.

U-tank has two independent graphic displays and level bars, where the inventory available in each tank can be checked. It also has a set-up keypad for inventory adjustment if required<sup>(1)</sup>.

See pg. 139 for probes and alarm

Power cord not included, use 3130-001.

4

### COMPONENT TECHNICAL DATA

|                  |                           |
|------------------|---------------------------|
| Function         | Monitor tank fluid levels |
| Requirements     | - Requires 110 V          |
| Power            | 110 -240 V AC supply      |
| Service Bulletin | SB 3807                   |

### MODEL AVAILABLE

|                 |                                                                                                          |
|-----------------|----------------------------------------------------------------------------------------------------------|
| <b>3110-105</b> | U-tank tank monitoring module. Can control up to two tanks. Supports CAN BUS communications. 110 - 240 V |
|-----------------|----------------------------------------------------------------------------------------------------------|








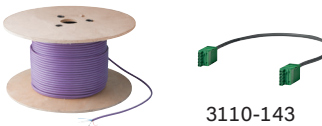





#### The number of input and output ports are:

- One analog input per tank for a pressure probe with 4-20 mA or 0-10V
- Three digital inputs per tank for a low, intermediate or high-level probe <sup>(1)</sup>
- One output per tank for a solenoid valve to control air supply to each pump
- One output per tank for an electro-pneumatic valve to prevent tank overflow
- One output for controlling an air solenoid valve to stop the air supply to all pumps when the workshop is closed
- One output per tank for controlling a flash warning light or an acoustic alarm








U-tank supports CAN BUS wired communication with other NEX-U® system components plus Wi-Fi® with optional CAN BUS to Wi-Fi® converter.

(1) The use of digital probes does not allow real-time inventory monitoring. NEX-U® will use declining balance for inventory control and will require manual inventory adjustment when fluid is supplied to the tank.

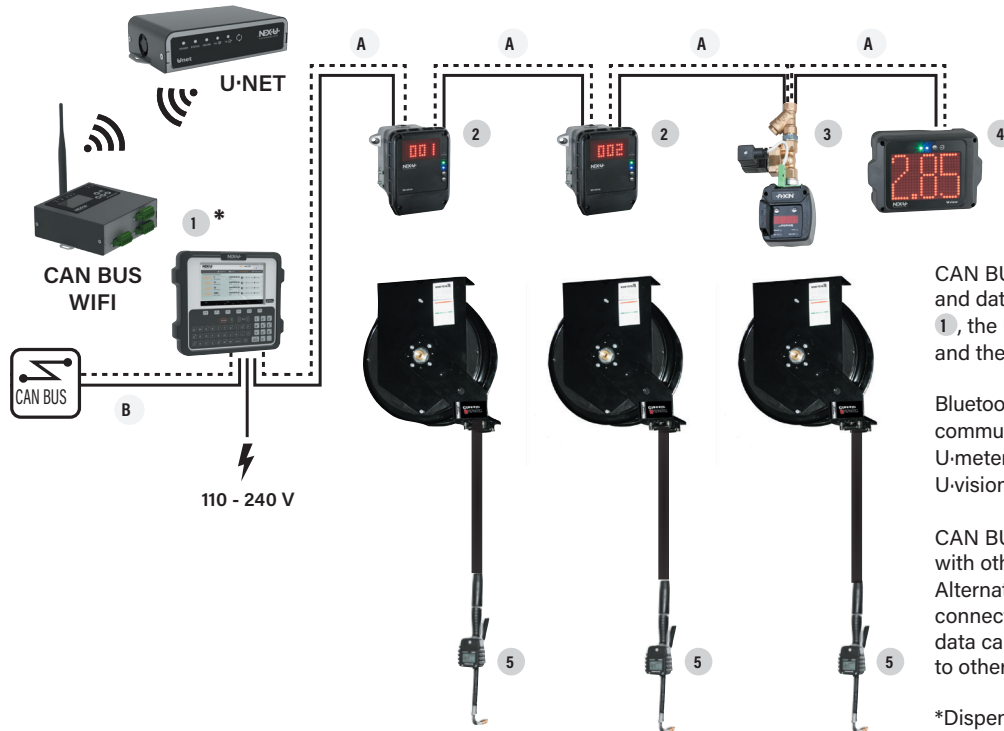
Only for connection with U-dat, U-valve, or an adjacent U-meter.  
Requires a 24 V DC solenoid valve.

|                                                                                                                         | MODELS                        | DESCRIPTION                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>3110-106 & 3110-108                | <b>U-POWER &amp; U-POWER+</b> |                                                                                                                                                                                                                                                           |
|                                                                                                                         | <b>3110-106</b>               | U-power+. Power supply unit with a 320 W transformer for use with 8 solenoid valves. Two CAN BUS ports (one input/one output)                                                                                                                             |
|                                                                                                                         | <b>3110-108</b>               | U-power. Power supply unit with a 75 W transformer for use with 2 solenoid valves. Two CAN BUS ports (one input/one output)                                                                                                                               |
| <br>3110-146                           | <b>3110-146</b>               | U-power+. Power supply unit with a 320 W transformer for use with 8 solenoid valves. Three CAN BUS ports (two input/one output)                                                                                                                           |
| <b>CAN BUS TO WIFI CONVERTER</b>                                                                                        |                               |                                                                                                                                                                                                                                                           |
| <br>3110-145                           | <b>3110-145</b>               | Allows wireless communication among the different components of the system. Equipped with an external antenna, it allows for extended signal coverage. It can be configured from a Windows or android application. Can be used with any CAN BUS component |
| <b>BLUETOOTH PRINTER</b>                                                                                                |                               |                                                                                                                                                                                                                                                           |
| <br>3110-109                           | <b>3110-109</b>               | Optional printer for use with NEX-U* COMPACT, connected via Bluetooth to the U-dat.                                                                                                                                                                       |
| <b>BARCODE</b>                                                                                                          |                               |                                                                                                                                                                                                                                                           |
| <br>3110-140                           | <b>3110-140</b>               | Bar code laser reader. Reads any one dimensional code. for use with a U-dat, U-dat Power+ and U-dat for NEX-U* mobile and compact systems.                                                                                                                |
| <b>U-VALVE BRACKET</b>                                                                                                  |                               |                                                                                                                                                                                                                                                           |
| <br>2230-040                           | <b>2230-040</b>               | Allow for mounting U-valve on top of a hose reel stand.                                                                                                                                                                                                   |
| <b>ZIGBEE SIGNAL REPEATER</b>                                                                                           |                               |                                                                                                                                                                                                                                                           |
| <br>3110-151                          | <b>3110-151</b>               | Expands the NEX-U* Radio Frequency network coverage to reach remote areas.                                                                                                                                                                                |
| <b>CABLES &amp; CORDS</b>                                                                                               |                               |                                                                                                                                                                                                                                                           |
| <br>3130-110<br>3130-500<br>3130-100 | <b>3130-110</b>               | 100' (30.5 m) CAN BUS communication cable                                                                                                                                                                                                                 |
|                                                                                                                         | <b>3130-500</b>               | 500' (152.4 m) CAN BUS communication cable                                                                                                                                                                                                                |
|                                                                                                                         | <b>3130-100</b>               | 1,000' (304 m) CAN BUS communication cable                                                                                                                                                                                                                |
|                                                                                                                         | <b>3110-143</b>               | Jumper cable. 1.6' (0.5 m) cable with pre-wired connectors 3110-141 for connecting adjacent elements with a CAN BUS cable                                                                                                                                 |
|                                                                                                                         | <b>3110-141</b>               | In/out electrical connectors. for use with U-meter, U-meter+                                                                                                                                                                                              |
|                                                                                                                         | <b>3110-136</b>               | Allows wiring connection between U-valves                                                                                                                                                                                                                 |
|                                                                                                                         | <b>3130-001</b>               | AC Power Cord, 6', 3 prong plus, 16/3 SJE00W, 13 amps/125 V, rated for outdoor use                                                                                                                                                                        |
| <br>3110-141      3110-136           |                               |                                                                                                                                                                                                                                                           |
| <b>LEVEL GAUGES</b>                                                                                                     |                               |                                                                                                                                                                                                                                                           |
| <br>3120-084                         | <b>3120-029</b>               | Remote flash and acoustic alarm                                                                                                                                                                                                                           |
| <br>3120-094                         | <b>3120-084</b>               | Level Sensor, Analog, Oil. Provides low level/high level actual volume, for tanks up to 13 ft. tall with 23 ft. cable                                                                                                                                     |
| <br>3120-092                         | <b>3120-092</b>               | 1 Level Sensor, Switch, Single Probe, 5.6 ft. with 33 ft. cable                                                                                                                                                                                           |
| <br>3120-093                         | <b>3120-093</b>               | 2 Level Sensor, Switch, Double Probe, 3 ft. & 5.5 ft. with 33 ft. cable                                                                                                                                                                                   |
|                                                                                                                         | <b>3120-094</b>               | 1 Level Sensor, Switch, Flex Adjustable Single Probe, 16 ft. cable                                                                                                                                                                                        |

4

|                                                                                                                                                                                                                                            |                 | MODELS                                                                                                                  | DESCRIPTION                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SOLENOID VALVES FOR COMPRESSED AIR - PUMP CONTROL</b>                                                                                                                                                                                   |                 |                                                                                                                         |                                                                                                                                                                                                                                                                                  |
| <br>3120-220                                                                                                                                              | <b>3120-220</b> | Compressed air. Brass, Buna-N™, Stainless Steel, and Copper                                                             | Normally Opened.<br><br>Air Solenoid provides for the remote shutdown of dispensing pumps from the fluid control console. Order one per controlled pump.<br><br>Pressure: 150 PSI (10.3 bar)<br>Connection: 1/2" NPT (F/F)<br>Power: 24 V AC                                     |
| <br>3120-233                                                                                                                                              | <b>3120-233</b> | Compressed air. Brass, Buna-N™, Stainless Steel, and Copper                                                             | Normally Opened.<br><br>Air Solenoid provides for the remote shutdown of dispensing pumps from the fluid control console. Order one per controlled pump.<br><br>Pressure: 150 PSI (10.3 bar)<br>Connection: 1" NPT (F/F)<br>Power: 24 V AC                                       |
| <br>3120-234                                                                                                                                              | <b>3120-234</b> | Compressed air. Brass, Buna-N™, Stainless Steel, and Copper                                                             | Normally Opened.<br><br>Air Solenoid provides for the remote shutdown of dispensing pumps from the fluid control console. Order one per controlled pump.<br><br>Pressure: 150 PSI (10.3 bar)<br>Connection: 1-1/2" NPT (F/F)<br>Power: 24 V AC                                   |
| <br>3120-235                                                                                                                                             | <b>3120-235</b> | 833930 - NEX-U, WASTE SOLENOID; 1"NPT LP-N OPEN<br>833922 - NIPPLE, HEX, STEEL, 1" NPT(M)<br>1589 - POLY T STRAINER, 1" | Normally Opened.<br><br>Air Solenoid provides for the remote shutdown of dispensing pumps from the fluid control console. For use with TM Control (3110-033), or with Nex-U U-Tank (3110-105).<br><br>Pressure: 150 PSI (10.3 bar)<br>Connection: 1" NPT (F/F)<br>Power: 24 V AC |
| <br>3120-033, 3120-225                                                                                                                                  | <b>3120-033</b> | Compressed air. Brass and NBR                                                                                           | Air Solenoid Provides for the remote shutdown of pumps from the fluid control console. Order one per controlled pump.<br><br>Pressure: 200 PSI (12 bar)<br>Connection: 3/8" NPT (F/F)<br>Power: 24 V DC                                                                          |
|                                                                                                                                                                                                                                            | <b>3120-225</b> | Compressed air. Brass and NBR                                                                                           | Air Solenoid Provides for the remote shutdown of pumps from the fluid control console. Order one per controlled pump.<br><br>Pressure: 200 PSI (12 bar)<br>Connection: 1/2" NPT (F/F)<br>Power: 24 V DC                                                                          |
| <b>SOLENOID VALVES FOR FLUIDS</b>                                                                                                                                                                                                          |                 |                                                                                                                         |                                                                                                                                                                                                                                                                                  |
| NEX-U™ requires 24 V DC, normally closed solenoid valves to operate. U-valve and U-valve+ include a solenoid valve, for other metering elements, a solenoid valve compatible with the fluid and the application requirements must be used. |                 |                                                                                                                         |                                                                                                                                                                                                                                                                                  |
| <br>3120-217                                                                                                                                            | <b>3120-217</b> | Oil and antifreeze solutions. Brass and NBR                                                                             | Pressure: 725 PSI (50 bar)<br>Connection: 1/2" NPT (F/F)<br>Power: 24 V DC                                                                                                                                                                                                       |
| <br>3120-218                                                                                                                                            | <b>3120-218</b> | Coolant, diesel, water, oil. Brass and NBR                                                                              | Pressure: 725 PSI (50 bar)<br>Connection: 3/4" NPT (F/F)<br>Power: 24 V DC                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                            | <b>3120-226</b> | DEF; antifreeze and windshield wash solutions, stainless steel and EPDM                                                 | Pressure: 145 PSI (10 bar)<br>Connection: 1/2" NPT (F/F)<br>Power: 24 V DC                                                                                                                                                                                                       |

## Access through U-dat



CAN BUS cable **A**, transmits power and data between the U-dat keypad **1**, the U-valves **2**, the U-meter+ **3** and the U-view remote display **4**.

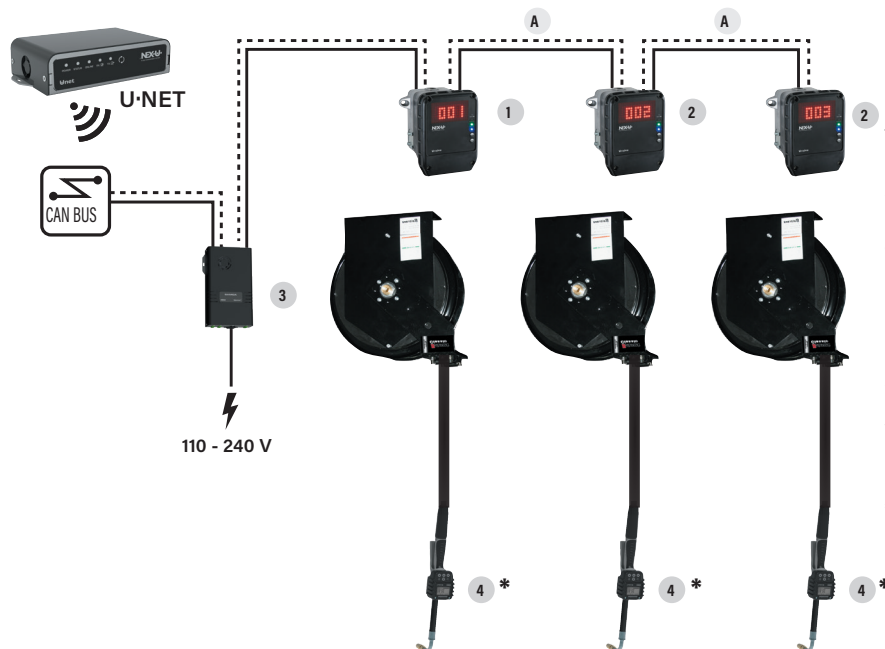
Bluetooth® connection is used to communicate each U-valve **2** and U-meter+ **3** with its corresponding U-vision **5** hand-held display.

CAN BUS cable **B** communicates with other NEX-U® components. Alternatively, if the keypad **1**, is connected to the wireless network, data can be transmitted wirelessly to other NEX-U® components.

\*Dispense Input



## Access through U-vision+



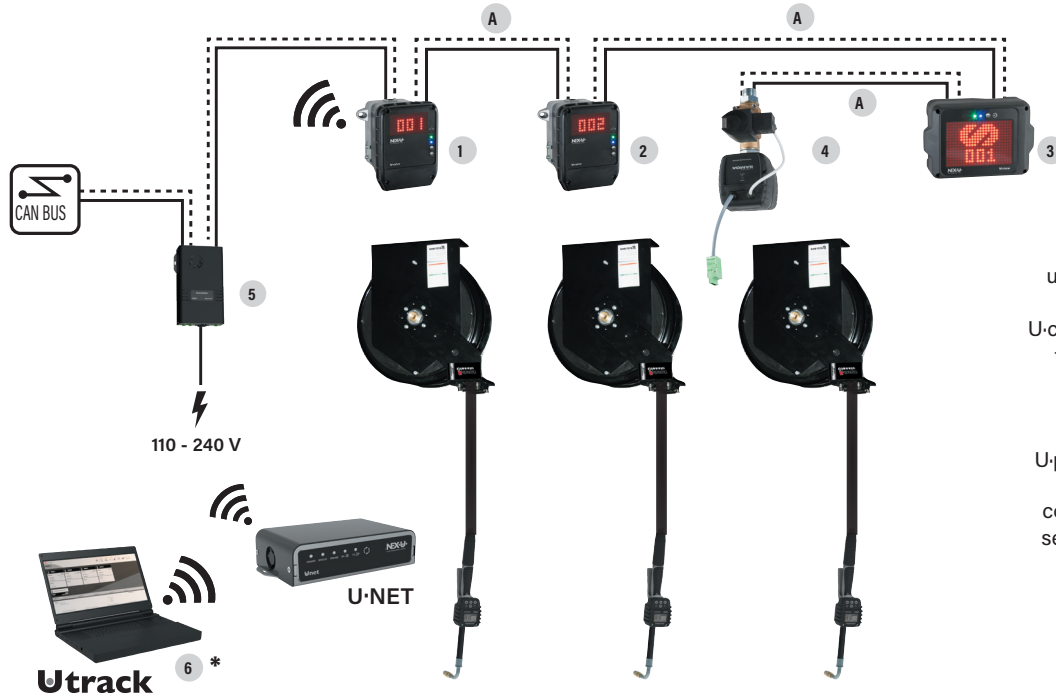
Power and data are transmitted using CAN BUS cable **A** between the U-valve+ **1** and the other U-valves **2**. Power to energize the solenoid valves is supplied by the U-power **3**, connected to U-valve+ **1**.

Each U-valve+ **1** and U-valve **2** is connected to its corresponding U-vision+ **4**, hand-held display and systems access Keypad.

Wireless data transmission is done by U-valve+ **1**.

\*Dispense Input

## PC - Laptop Connection

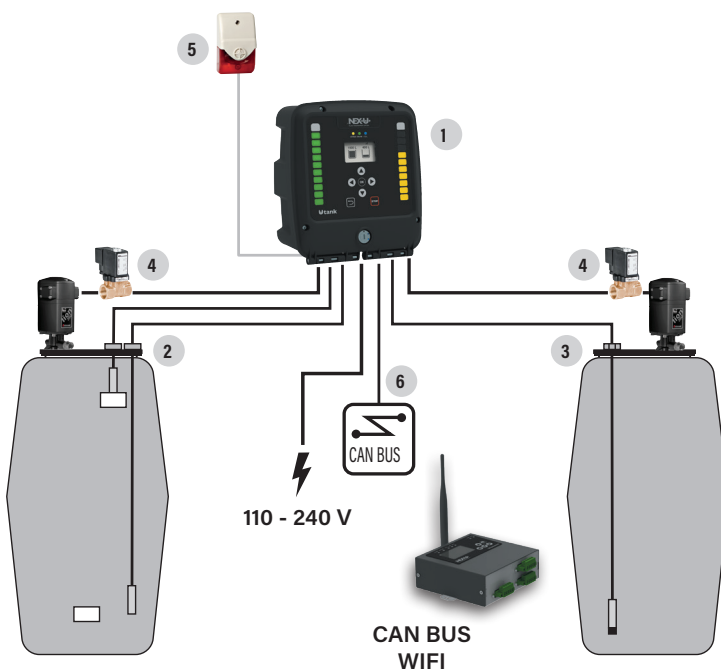


Power and data are transmitted using CAN BUS cable **A** between the U-valve+ **1**, U-valve **2** and U-count **3**. U-count **3** is connected to U-pulser solenoid valve **4** also using CAN BUS connection.

24 V DC power is supplied by U-power **5** to U-valve+ **1** connecting using Wi-Fi\* with all system components, including any licensed terminal **6** that is connected to U-track and can be used as a virtual access keypad.

\*Dispense input

## Tank Monitoring



U-tank **1** can monitor up to two tanks.

Each tank can be fitted with low and high level sensors **2** or with a pressure gauge **3** for real-time control of the inventory in the tank. U-tank **1** can also control pump operation opening or closing an air solenoid valve **4** that prevents pump from running dry or air entering the oil distribution lines if there is no oil in the tanks.

U-tank **1** can also control a remote flash light or siren **5** to warn when any tank is empty.

U-tank **1** can communicate with other NEX-U\* elements using Wi-Fi\* or through CAN BUS connection **6**.



## Features

### TM Control

Standalone tank controller with 4 channels capable of controlling up to 4 different tanks or fluids. Each channel can connect to a solenoid valve, remote alarm or strobe light.

The TM Control can be used as a high or low-level control to prevent overflow, or as a pump shutoff to prevent the pump from running dry, and allowing air to enter the system.



### Main Features

- Controls up to four channels. Each channel can be assigned to a different tank, or multiple channels can be assigned to a single tank
- Each channel controls solenoid valves, relays, external alarms, etc.
- This unit can be a standalone unit; no need to connect to auxiliary software or systems
- TM Control works with tank alert strobe light and alarm 3120-029
- One button for setup, resetting alarms, and system test
- Use the key switch for bypass mode control, setup access, or rebooting the system
- Status LEDs: yellow indicates bypass mode and white on indicates system status; on
- Input LED for each channel; red blinking LED indicates level warning
- Outputs can be configured to "normally-open" or "normally closed"

### TECHNICAL DATA

|                            |                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------|
| Function                   | Stand alone tank controller                                                                             |
| Requirements & Limitations | 4 tanks or 4 fluids                                                                                     |
| Power                      | Input - 110-230 V AC<br>Required Voltage - 110/60 Hz 240/50 Hz V AC<br>Standard 18 AWG for installation |

### RECOMMENDED ACCESSORIES



| MODELS                                                                                       | DESCRIPTION                                      | COMPONENT TECHNICAL DATA                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  3120-029 | Tank alert strobe alarm                          | Power: 24 V DC                                                                                                                                                                                      |
|           | 3120-033<br>Air Solenoid Valve - Normally Closed | Air Solenoid Provides for the remote shutdown of pumps from the fluid control console. Order one per controlled pump.<br>Pressure: 200 PSI (12 bar)<br>Connection: 3/8" NPT (F/F)<br>Power: 24 V DC |
|                                                                                              | 3120-225<br>Air Solenoid Valve - Normally Open   | Air Solenoid Provides for the remote shutdown of pumps from the fluid control console. Order one per controlled pump.<br>Pressure: 200 PSI (12 bar)<br>Connection: 1/2" NPT (F/F)<br>Power: 24 V DC |

### MODEL AVAILABLE

|          |            |
|----------|------------|
| 3110-033 | TM Control |
|----------|------------|

### TANK SENSORS

Tank sensors (switches provide low level/high level responses, depending on model)

|                                                                                     |          |                                                                         |
|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------|
|  | 3120-092 | 1 Level Sensor, Switch, Single Probe, 5.6 ft. with 33 ft. cable         |
|                                                                                     | 3120-093 | 2 Level Sensor, Switch, Double Probe, 3 ft. & 5.5 ft. with 33 ft. cable |
|  | 3120-094 | 1 Level Sensor, Switch, Flex Adjustable Single Probe, 16 ft. cable      |

## Features

### Pump Sentinel

- Prevents theft by disabling up to six pumps
- Safety shut-off at the end of the day; in case of component failure that could result in leaks and spills
- Master key needed to turn system on
- Includes a six-foot wiring harness
- Small Console footprint:  
6.5" L x 5" W x 3" H

Prevents fluid spills during non-working hours by using a built-in timer to turn off air supply to all pumps at a predetermined time each day.



4


### PUMP SENTINEL TECHNICAL DATA

|                            |                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function                   | Prevents fluid spills during non-working hours by using a built-in timer to turn off air supply to all pumps at a predetermined time each day.                                                                                           |
| Requirements & Limitations | No. 18 AWG wire is recommended for all runs less than 400 feet. For runs from 400 to 625 feet, use wire no. 16 AWG or larger. Normally the 24 VDC wiring can be run around the overhead structure of the building without using conduit. |
| Power                      | 120 VAC, 60/50 Hz, 50 Watts-output 24 VAC                                                                                                                                                                                                |
| Control Capacity           | 6 products                                                                                                                                                                                                                               |
| Operating Temperature      | 0° - 140° F (-17° - 60° C)                                                                                                                                                                                                               |
| Solenoid Rating            | 24 VDC, 5 Watts Max.                                                                                                                                                                                                                     |
| Dimensions                 | 3" H x 6.5" W x 5" D                                                                                                                                                                                                                     |
| Cable Length               | 6 ft.                                                                                                                                                                                                                                    |
| Service Bulletin           | SB 3048                                                                                                                                                                                                                                  |

### MODELS AVAILABLE

|                 |                       |
|-----------------|-----------------------|
| <b>3110-009</b> | Pump Sentinel Console |
|-----------------|-----------------------|

### RECOMMENDED ACCESSORIES

|                                                                                     | MODELS          | DESCRIPTION                                | COMPONENT TECHNICAL DATA                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>3120-033</b> | Air Solenoid Valve<br>-<br>Normally Closed | Air Solenoid Provides for the remote shutdown of pumps from the fluid control console. Order one per controlled pump.<br><br>Pressure: 200 PSI (12 bar)<br>Connection: 3/8" NPT (F/F)<br>Power: 24 VDC |
|                                                                                     | <b>3120-225</b> | Air Solenoid Valve<br>-<br>Normally Open   | Air Solenoid Provides for the remote shutdown of pumps from the fluid control console. Order one per controlled pump.<br><br>Pressure: 200 PSI (12 bar)<br>Connection: 1/2" NPT (F/F)<br>Power: 24 VDC |



# FLUID DISPENSE PACKAGES

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| Tankless Packages . . . . .                                        | 146 |
| Piston Pump Lightweight Double Wall Oil Dispense Tank Packages . . | 147 |
| Piston Pump Lightweight Double Wall Dispense Tankless Packages .   | 148 |
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# Piston Pump Tankless Packages

for use with steel single and double wall tanks

**All packages include:**

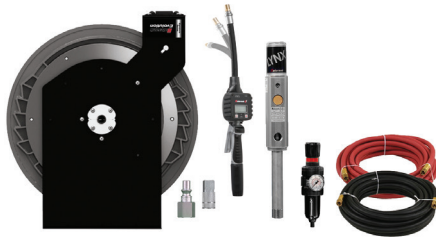
- DR Handle w/flex-m ext. & 1/4 turn manual tip for oil
- F/R auto drain 1/4" NPT(F)
- 2.5' reel inlet hose
- Evolution series hose reel, 1/2" x 30' or 50' or chose Classic series hose reel 1/2" x 30' or 50' (for the heavy duty packages)
- Pump connecting hose kit
- Piston pump - choice of LYNX® 3:1, LYNX® HD 5:1, or Panther® 3:1

## Features

Suitable for dispensing of all petroleum based and synthetic oils and similar products up to SAE 90. Packages may be mounted to a variety of tanks including Balcrank's UL 142 single and double wall tanks. Available in workbench, vertical obround, and horizontal obround styles.

## Light Duty Applications

- Tank packages
- Low volume, small service centers



| MODELS AVAILABLE | DESCRIPTION                            |          |                         |
|------------------|----------------------------------------|----------|-------------------------|
| <b>1132-016</b>  | Tankless Package, LYNX®/30', DR-Flex-M | 4410-054 | Pump Hose Kit           |
|                  | 1110-007 LYNX® 3:1 Bare Pump           | 3330-159 | DR Handle w/flex-m ext. |
|                  | 2140-013 Evo Reel 30' x 1/2" for Oil   | 3260-065 | F/R manual 1/4" NPT(F)  |
| <b>1132-017</b>  | Tankless Package, LYNX®/50', DR-Flex-M | 4410-054 | Pump Hose Kit           |
|                  | 1110-007 LYNX® 3:1 Bare Pump           | 3330-159 | DR Handle w/flex-m ext. |
|                  | 2140-014 Evo Reel 50' x 1/2" for Oil   | 3260-065 | F/R manual 1/4" NPT(F)  |

## Medium Duty Applications

- Tank packages
- Low to medium volume, small service centers



| MODELS AVAILABLE | DESCRIPTION                               |          |                         |
|------------------|-------------------------------------------|----------|-------------------------|
| <b>1132-020</b>  | Tankless Package, LYNX® HD/30', DR-Flex-M | 4410-054 | Pump Hose Kit           |
|                  | 1110-012 LYNX® HD 5:1 Bare Pump           | 3330-159 | DR Handle w/flex-m ext. |
|                  | 2140-013 Evo Reel 30' x 1/2" for Oil      | 3260-065 | F/R manual 1/4" NPT(F)  |

## Medium/Heavy Duty Applications

- Tank packages
- Medium volume service centers



| MODELS AVAILABLE | DESCRIPTION                               |          |                         |
|------------------|-------------------------------------------|----------|-------------------------|
| <b>1132-023</b>  | Tankless Package, Panther®/50', DR-Flex-M | 4410-054 | Pump Kit                |
|                  | 1130-020 Panther® 3:1 Bare Pump           | 3330-159 | DR Handle w/flex-m ext. |
|                  | 2120-013 Classic Reel 50' x 1/2" for Oil  | 3260-065 | F/R manual 1/4" NPT(F)  |

5

# Lightweight Double Wall Oil Dispense Piston Pump

## Package includes

- Double wall tank - choice of 165 gal (L 29" x W 28" x H 61"), 275 gal (L 43" x W 28" x H 61"), or 400 gal (L 64" x W 30" x H 68")
- Hose reel - choice of Evolution or Classic series hose reel, 30' or 50' x 1/2"
- Piston pump - choice of LYNX® 3:1, LYNX® 5:1 HD, or Panther® 3:1
- DR handle w/flex-m ext. & 1/4 turn manual tip for oil
- F/R auto drain 1/4" NPT(F)
- 2.5' reel inlet hose
- 5' air connecting hose
- Air quick connect coupler & nipple
- Sight gauge
- Vented fill cap
- Pump & reel bracket

(See additional tank accessories on pg. 152)

\*As with all tanks, be sure to follow local and state guidelines for tank placement and installation. Some cities and counties have not approved the UL 2258 certification, as it is different than the familiar UL142 that pertains to steel tanks, so be sure to check with your local Fire Marshal and/or city and county regulations before ordering.

## Features

These double wall tanks feature:

- Inner tank made of blow-molded, high-density, seamless polyethylene that is leak-proof and will never corrode
- Outer tank is made of weld-free galvanized steel and roll seamed with an oil and fire-resistant seal
- Outer tank holds 110 percent of inner tank for maximum protection
- Extremely light, up to 50 percent lighter than conventional steel tanks
- Can be used for DEF, diesel and bio fuels, motor oil, and ATF
- Compact, economical design (8 sq. ft. for 1000 l)
- Wide handles on each end allow for easy handling and transportation
- UL 2258 certified\*
- 4 x 2" bung openings
- All tanks ship assembled



## Light Duty Applications

- Low volume, small service centers

| MODELS AVAILABLE | DESCRIPTION                               |
|------------------|-------------------------------------------|
| <b>1135-004</b>  | 50' EVO Reel, LYNX® 3:1 pump, 165 gal     |
| <b>1135-013</b>  | 30' EVO Reel, LYNX® 3:1 pump, 275 gal     |
| <b>1135-016</b>  | 50' EVO Reel, LYNX® 3:1 pump, 275 gal     |
| <b>1135-019</b>  | 30' Classic Reel, LYNX® 3:1 pump, 275 gal |
| <b>1135-022</b>  | 50' Classic Reel, LYNX® 3:1 pump, 275 gal |
| <b>1135-028*</b> | 50' EVO Reel, LYNX® 3:1 pump, 400 gal     |
| <b>1135-034*</b> | 50' Classic Reel, LYNX® 3:1 pump, 400 gal |



## Medium Duty Applications

- Low to medium volume, small service centers

| MODELS AVAILABLE | DESCRIPTION                                  |
|------------------|----------------------------------------------|
| <b>1135-011</b>  | 50' Classic Reel, LYNX® 5:1 HD pump, 165 gal |
| <b>1135-014</b>  | 30' EVO Reel, LYNX® 5:1 HD pump, 275 gal     |
| <b>1135-017</b>  | 50' EVO Reel, LYNX® 5:1 HD pump, 275 gal     |
| <b>1135-017C</b> | 50' EVO Reel, LYNX® 5:1 HD pump, 275 gal     |
| <b>1135-020</b>  | 30' Classic Reel, LYNX® 5:1 HD pump, 275 gal |
| <b>1135-023</b>  | 50' Classic Reel, LYNX® 5:1 HD pump, 275 gal |
| <b>1135-029*</b> | 50' EVO Reel, LYNX® 5:1 HD pump, 400 gal     |
| <b>1135-029C</b> | 50' EVO Reel, LYNX® 5:1 HD pump, 400 gal     |
| <b>1135-035*</b> | 50' Classic Reel, LYNX® 5:1 HD pump, 400 gal |



## Medium/Heavy Duty Applications

- Medium volume service centers

| MODELS AVAILABLE | DESCRIPTION                                  |
|------------------|----------------------------------------------|
| <b>1135-006</b>  | 50' EVO Reel, Panther® 3:1 pump, 165 gal     |
| <b>1135-009</b>  | 30' Classic Reel, Panther® 3:1 pump, 165 gal |
| <b>1135-012</b>  | 50' Classic Reel, Panther® 3:1 pump, 165 gal |
| <b>1135-018</b>  | 50' EVO Reel, Panther® 3:1 pump, 275 gal     |
| <b>1135-021</b>  | 30' Classic Reel, Panther® 3:1 pump, 275 gal |
| <b>1135-024</b>  | 50' Classic Reel, Panther® 3:1 pump, 275 gal |
| <b>1135-030*</b> | 50' EVO Reel, Panther® 3:1 pump, 400 gal     |
| <b>1135-036*</b> | 50' Classic Reel, Panther® 3:1 pump, 400 gal |

\*165 gallon and 275 gallon ship assembled. 400 gallon ship equipment and tank separately

# Piston Pump Lightweight Double Wall Tankless Packages

## Packages includes

- Hose reel - choice of Evolution or Classic series hose reel, 30' or 50' x 1/2"
- Piston pump - choice of LYNX® 3:1, LYNX® 5:1 HD, or Panther® 3:1
- DR handle w/flex-m ext. & 1/4 turn manual tip for oil
- F/R auto drain 1/4" NPT(F)
- 2.5' reel inlet hose
- 5' air connecting hose
- Air quick connect coupler & nipple
- Sight gauge
- Vented fill cap
- Pump & reel bracket

## Features

Suitable for storage and dispensing of all petroleum based and synthetic oils and similar products up to SAE 90. Packages are designed for lightweight double wall tanks, which are available in 165 gal, 275 gal, and 400 gal.



## Light Duty Applications

- Tank packages
- Low volume, small service centers

| MODELS AVAILABLE | PACKAGE                                   |
|------------------|-------------------------------------------|
| <b>1135-010T</b> | 50' Classic Reel, LYNX® 3:1 pump, 165 gal |
| <b>1135-013T</b> | 30' EVO Reel, LYNX® 3:1 pump, 275 gal     |
| <b>1135-025T</b> | 30' EVO Reel, LYNX® 3:1 pump, 400 gal     |

## Medium Duty Applications

- Tank packages
- Low to medium volume, small service centers

| MODELS AVAILABLE | PACKAGE                                      |
|------------------|----------------------------------------------|
| <b>1135-011T</b> | 50' Classic Reel, LYNX® 5:1 HD pump, 165 gal |
| <b>1135-017T</b> | 50' EVO Reel, LYNX® 5:1 HD pump, 275 gal     |
| <b>1135-023T</b> | 50' Classic Reel, LYNX® 5:1 HD pump, 275 gal |
| <b>1135-029T</b> | 50' EVO Reel, LYNX® 5:1 HD pump, 400 gal     |

## Medium/Heavy Duty Applications

- Tank packages
- Medium volume service centers

| MODELS AVAILABLE | PACKAGE                                      |
|------------------|----------------------------------------------|
| <b>1135-006T</b> | 50' EVO Reel, Panther® 3:1 pump, 165 gal     |
| <b>1135-012T</b> | 50' Classic Reel, Panther® 3:1 pump, 165 gal |
| <b>1135-018T</b> | 50' EVO Reel, Panther® 3:1 pump, 275 gal     |
| <b>1135-024T</b> | 50' Classic Reel, Panther® 3:1 pump, 275 gal |
| <b>1135-030T</b> | 50' EVO Reel, Panther® 3:1 pump, 400 gal     |
| <b>1135-036T</b> | 50' Classic Reel, Panther® 3:1 pump, 400 gal |

5

# Lightweight Double Wall AODD Packages

## Anti-freeze & Windshield Wash Fluid

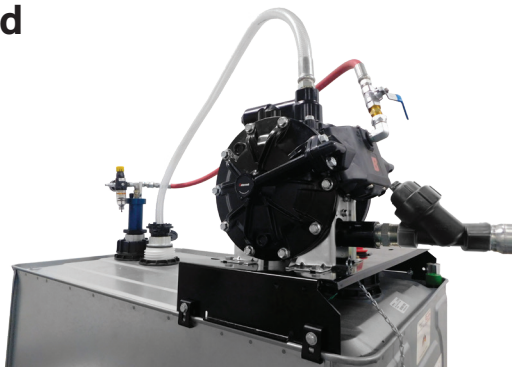


### Package includes\*

- Double wall tank - choice of 165 gal (L 29" x W 28" x H 61") or 275 gal (L 43" x W 28" x H 61")
- CenterFlo polypropylene AODD pump CF30
- Pump bracket
- F/R auto drain 1/4" NPT(F)
- Tank sight gauge
- Vented 2" evac cap/port
- Air supply hose with quick coupler
- Hose reel - choice of Evolution hose reels 30' or 50'
- Shipped completely assembled and ready for use (See additional accessories on pg. 152)

\*Control handle not included. Select the appropriate control handle based on the material being dispensed, anti-freeze or windshield wash fluids.

## Lightweight Double Wall Package Used Fluid



### Package includes

- Double wall tank - choice of 275 gal (L 43" x W 28" x H 61") or 400 gal (L 64" x W 30" x H 68")
- CenterFlo aluminum AODD pump CF50
- Pump bracket
- F/R auto drain 1/4" NPT(F)
- Y-strainer on used oil models
- 1" evacuation hose with 1" cam-lock for used oil (3/4" for anti-freeze)
- High level pump shut-off
- Tank site gauge
- Vented 2" evac cap/port
- Air supply hose with quick coupler
- Shipped completely assembled and ready for use

\*As with all tanks, be sure to follow local and state guidelines for tank placement and installation. Some cities and counties have not approved the UL 2258 certification, as it is different that the familiar UL142 that pertains to steel tanks, so be sure to check with your local Fire Marshal and/or city and county regulations before ordering.

## Features

Our lightweight double wall used oil and anti-freeze evacuation packages come completely assembled and ready for use; simply connect the pump air supply hose and fill with oil.

The **A/F and WW packages** include a 1" poly AODD pump, hose reel and all hoses and fittings.

The **used fluid packages** include a high-level pump shut-off, site gauge, Y-strainer and a 1" cam-lock connector. The used anti-freeze packages come with a 3/4" cam lock to prevent accidental contamination of fluids.

**Select your control handle separately (pg. 108) based on the fluid you are dispensing**

| MODELS AVAILABLE                               | DESCRIPTION                                             |
|------------------------------------------------|---------------------------------------------------------|
| <b>ANTI-FREEZE &amp; WINDSHIELD WASH FLUID</b> |                                                         |
| <b>1135-038</b>                                | CF30 Polypropylene, 165 gal, EVO 50; A/F & WWS          |
| <b>1135-039</b>                                | CF30 Polypropylene, 275 gal, EVO 30; A/F & WWS          |
| <b>1135-040</b>                                | CF50 Polypropylene, 275 gal, EVO 50; A/F & WWS          |
| <b>1135-038T</b>                               | Tankless CF30 Polypropylene, 165 gal, EVO 50; A/F & WWS |
| <b>1135-039T</b>                               | Tankless CF30 Polypropylene, 275 gal, EVO 30; A/F & WWS |
| <b>1135-040T</b>                               | Tankless CF50 Polypropylene, 275 gal, EVO 50; A/F & WWS |
| <b>USED FLUID</b>                              |                                                         |
| <b>4140-072</b>                                | CF50, 400 gal, EVAC for oil                             |
| <b>4140-071</b>                                | CF50, 275 gal, EVAC for oil                             |
| <b>4140-068</b>                                | CF50, 400 gal, EVAC for A/F                             |
| <b>4140-069</b>                                | CF50, 275 gal, EVAC for A/F                             |

## Build Your Package

These packages will be shipped complete **less the pump, downtube, reel, and control handle**.  
Chose the equipemnt to fit your shop needs.

1. Select Piston pump - choice of LYNX® 3:1, LYNX® 5:1 HD, or Panther® 3:1
2. Select Hose reel - choice of Evolution or Classic series hose reel, 30' or 50' x 1/2"
3. Select Control Handle
4. Select downtube (See table below)

The packages will not be assembled. These items will ship in their original packaging along with the remainder of the tank package.

## Features

Suitable for storage and dispensing of all petroleum based and synthetic oils and similar products up to SAE 90. Packages are designed for lightweight double wall tanks, which are available in 165 gal, 275 gal, and 400 gal.

### Packages includes

- F/R auto drain 1/4" NPT(F)
- 5' air connecting hose
- Air quick connect coupler & nipple
- Sight gauge
- Vented fill cap
- Pump & reel bracket



### 165 Gallon Package

| MODELS AVAILABLE          | PACKAGE                                   |
|---------------------------|-------------------------------------------|
| <b>1135-165</b>           | A' la Carte Package, 165 gal              |
| <b>Add Pump</b>           |                                           |
| <b>1110-007</b>           | LYNX 3:1 stub pump                        |
| <b>1110-012</b>           | LYNX 5:1 HD stub pump                     |
| <b>1130-015</b>           | Panther 3:1 stub pump                     |
| <b>1130-016</b>           | Panther 5:1 stub pump                     |
| <b>Add Reel</b>           |                                           |
| <b>2140-013</b>           | EVO MP 30' x 1/2" ID hose                 |
| <b>2140-014</b>           | EVO MP 50' x 1/2" ID hose                 |
| <b>2120-011</b>           | CLASSIC MP 30' x 1/2" ID hose             |
| <b>2120-013</b>           | CLASSIC MP 50' x 1/2" ID hose             |
| <b>Add Downtube</b>       |                                           |
| <b>833567</b>             | 165 Gal Downtube for LYNX 3:1             |
| <b>833569</b>             | 165 Gal Downtube for LYNX 5:1             |
| <b>833571</b>             | 165 Gal Downtube for Panther 3:1 & 5:1    |
| <b>Add Control Handle</b> |                                           |
| <b>3331-159</b>           | DR Metered Flex Memory 1/4 turn - OIL     |
| <b>3320-024</b>           | DR Non-Metered Flex Memory 1/4 turn - OIL |



### 275 Gallon Package

| MODELS AVAILABLE          | PACKAGE                                   |
|---------------------------|-------------------------------------------|
| <b>1135-275</b>           | A' la Carte Package, 275 gal              |
| <b>Add Pump</b>           |                                           |
| <b>1110-007</b>           | LYNX 3:1 stub pump                        |
| <b>1110-012</b>           | LYNX 5:1 HD stub pump                     |
| <b>1130-015</b>           | Panther 3:1 stub pump                     |
| <b>1130-016</b>           | Panther 5:1 stub pump                     |
| <b>Add Reel</b>           |                                           |
| <b>2140-013</b>           | EVO MP 30' x 1/2" ID hose                 |
| <b>2140-014</b>           | EVO MP 50' x 1/2" ID hose                 |
| <b>2120-011</b>           | CLASSIC MP 30' x 1/2" ID hose             |
| <b>2120-013</b>           | CLASSIC MP 50' x 1/2" ID hose             |
| <b>Add Downtube</b>       |                                           |
| <b>833567</b>             | 275 Gal Downtube for LYNX 3:1             |
| <b>833569</b>             | 275 Gal Downtube for LYNX 5:1             |
| <b>833571</b>             | 275 Gal Downtube for Panther 3:1 & 5:1    |
| <b>Add Control Handle</b> |                                           |
| <b>3331-159</b>           | DR Metered Flex Memory 1/4 turn - OIL     |
| <b>3320-024</b>           | DR Non-Metered Flex Memory 1/4 turn - OIL |



### 400 Gallon Package

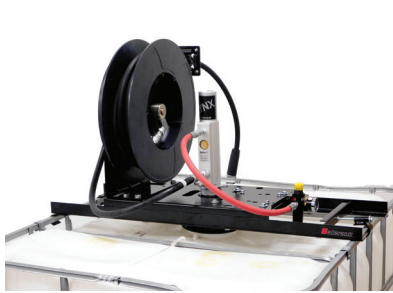
| MODELS AVAILABLE          | PACKAGE                                   |
|---------------------------|-------------------------------------------|
| <b>1135-400</b>           | A' la Carte Package, 400 gal              |
| <b>Add Pump</b>           |                                           |
| <b>1110-007</b>           | LYNX 3:1 stub pump                        |
| <b>1110-012</b>           | LYNX 5:1 HD stub pump                     |
| <b>1130-015</b>           | Panther 3:1 stub pump                     |
| <b>1130-016</b>           | Panther 5:1 stub pump                     |
| <b>Add Reel</b>           |                                           |
| <b>2140-013</b>           | EVO MP 30' x 1/2" ID hose                 |
| <b>2140-014</b>           | EVO MP 50' x 1/2" ID hose                 |
| <b>2120-011</b>           | CLASSIC MP 30' x 1/2" ID hose             |
| <b>2120-013</b>           | CLASSIC MP 50' x 1/2" ID hose             |
| <b>Add Downtube</b>       |                                           |
| <b>833568</b>             | 400 Gal Downtube for LYNX 3:1             |
| <b>833570</b>             | 400 Gal Downtube for LYNX 5:1             |
| <b>833572</b>             | 400 Gal Downtube for Panther 3:1 & 5:1    |
| <b>Add Control Handle</b> |                                           |
| <b>3331-159</b>           | DR Metered Flex Memory 1/4 turn - OIL     |
| <b>3320-024</b>           | DR Non-Metered Flex Memory 1/4 turn - OIL |

# Tote Packages

## Features

### Top Mount Packages include

- Hose reel (see options below)
- Pump (see options below)
- Filter/regulator with auto drain
- 2.5' reel connecting hose
- 5' air connecting hose
- Air quick coupler & nipple
- Top mount pump & reel bracket
- Pump direct immersion suction tube & dust shroud



\*control handle not included

### Side Mount Packages include

- Hose reel (see options below)
- Pump (see options below)
- Filter/regulator with auto drain
- 2.5' reel connecting hose
- 5' air connecting hose
- Air quick coupler & nipple
- Side mount pump & reel swivel bracket
- 6" vented cap with dual 2" ports & pressure relief port
- Vented fill cap
- Top tote suction tube and hose



\*control handle not included

### CenterFlo Packages include

- Hose reel (see options below)
- Pump (see options below)
- Filter/regulator with auto drain
- 2.5' reel connecting hose
- 3' air connecting hose
- Air quick coupler & nipple
- Top mount pump & reel bracket
- Pump direct immersion suction tube & dust shroud



\*control handle not included

## Top Mount

| MODELS AVAILABLE | LIGHT DUTY                     |
|------------------|--------------------------------|
| <b>1136-213</b>  | 275 Gal LYNX® 3:1 & EVO 30'    |
| <b>1136-215</b>  | 275 Gal LYNX® 3:1 & EVO 50'    |
| MODELS AVAILABLE | MEDIUM/HEAVY DUTY              |
| <b>1136-225</b>  | 275 Gal LYNX® 5:1 HD & EVO 50' |
| <b>1136-325</b>  | 330 Gal LYNX® 5:1 HD & EVO 50' |
| <b>1136-233</b>  | 275 Gal Panther 3:1 & EVO 30'  |
| <b>1136-235</b>  | 275 Gal Panther 3:1 & EVO 50'  |
| <b>1136-333</b>  | 330 Gal Panther 3:1 & EVO 30'  |
| <b>1136-335</b>  | 330 Gal Panther 3:1 & EVO 50'  |

\* Order control handle separately

## Side Mount

| MODELS AVAILABLE                               | LIGHT DUTY                     |
|------------------------------------------------|--------------------------------|
| <b>1137-313</b>                                | 330 Gal LYNX® 3:1 & EVO 30'    |
| * Control handles sold separately, see page 92 |                                |
| MODELS AVAILABLE                               | MEDIUM/HEAVY DUTY              |
| <b>1137-225</b>                                | 275 Gal LYNX® 5:1 HD & EVO 50' |
| <b>1137-323</b>                                | 330 Gal LYNX® 5:1 HD & EVO 30' |
| <b>1137-235</b>                                | 275 Gal Panther 3:1 & EVO 50'  |
| <b>1137-333</b>                                | 330 Gal Panther 3:1 & EVO 30'  |
| <b>1137-335</b>                                | 330 Gal Panther 3:1 & EVO 50'  |

## CenterFlo

| MODELS AVAILABLE | A/F & OIL PACKAGE           |
|------------------|-----------------------------|
| <b>1136-243</b>  | 275 Gal CF15 Alum & EVO 30' |
| <b>1136-255</b>  | 275 Gal CF30 & EVO 50'      |
| <b>1136-355</b>  | 330 Gal CF30 & EVO 50'      |
| MODELS AVAILABLE | WWS PACKAGE                 |
| <b>1136-263</b>  | 275 Gal CF15 Poly & EVO 30' |

| BUNG ADAPTERS                                   |                              | TOTE CAPS                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bung Adapter                                    |                              | <b>4411-009N</b> Aluminum Panther <sup>®</sup> HP, Tiger W/ Pressure Relief                                                                                                                                                                   | Tote caps                                                                                                                                                                                                                                                                                                                             |
|                                                 |                              | <b>4411-009QX</b> Aluminum Panther <sup>®</sup> HP, Tiger W/ Pressure Relief 10 pk                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4411-022</b> Bung Adapter LYNX <sup>®</sup> : 3:1, 5:1                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4411-021</b> Bung Adapter LYNX <sup>®</sup> : 1:1 & 2:1                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4411-018N</b> Double Tap Bushing for Panther <sup>®</sup> W/ Pressure Relief                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                       |
| <b>TANK LEVEL GAUGE</b>                         |                              |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                       |
| Tank level gauge                                |                              | <b>4520-014</b> Black Knight, Tank Gauge, 0-99"<br>Display dial shows the remaining fluid depth in inches as the attached float level changes. Mount on tank bung fitting.<br>(for stationary tanks only. Not recommended for mobile lube.)   | Vents                                                                                                                                                                                                                                                                                                                                 |
|                                                 |                              | <b>4520-024</b> Morrison Bro., Tank Gauge, 0-108"<br>Display dial shows the remaining fluid depth in inches as the attached float level changes. Mount on tank bung fitting.<br>(for stationary tanks only. Not recommended for mobile lube.) |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4520-025</b> Roth Tank Level 110 gal.                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4520-026</b> Roth Tank Gauge 165 gal. / 275 gal.                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4520-027</b> Roth Tank Gauge 400 gal.                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                       |
| <b>VENTS</b>                                    |                              |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                       |
| Drip tray                                       |                              | <b>4520-020</b> Control Handle Drip Tray.<br>Fits Lightweight Double Wall tanks and IBC totes                                                                                                                                                 | Vents                                                                                                                                                                                                                                                                                                                                 |
|                                                 |                              | <b>4520-018</b> Emergency vent 4" NPT(M)                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4520-019</b> Vented fill cap 2" NPT(M)                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4411-024</b> PVC adapter w/ pressure relief port-2" for use when no additional ports are not available on the tank for pressure relief discharge tube.                                                                                     |                                                                                                                                                                                                                                                                                                                                       |
|                                                 |                              | <b>4520-067</b> Vent Cap Mounting Kit<br>(for attaching 4520-006 to vent outlet of obround tanks)                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                       |
| <b>TANK SADDLE</b>                              |                              |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                       |
| Swivel bracket for mounting hose reels          |                              | <b>2230-026</b> Swivel Bracket for use with single EVO, Premium and Classic. Allows the hose reel to be wall mounted to the swivel bracket and pivot horizontally                                                                             | <b>4520-006</b> Tank Saddle. Use our exclusive saddle bracket to quickly attach Balcrank hose reels to any 275 gal or 330 gal horizontal obround tank. One step attachment, no welding or tank modifications required. Order separate vent kit, Model 4520-067, to attach the saddle to standard oval tanks at the vent cap location. |
| Side mount bracket for IBC totes                | <br>4411-035<br><br>4411-033 | <b>4411-033</b> Pump Mount Bracket, for bung mounted pumps to side tote bracket<br><br><b>4411-035</b> Side Mount Bracket for IBC Totes                                                                                                       |                                                                                                                                                                                                                                                                                                                                       |
| <b>4411-034</b> Top Mount Bracket for IBC Totes |                              |                                                                                                                                                                                                                                               | <br>                                                                                                                                                                                                                                                                                                                                  |
| Lightweight double wall tank brackets           |                              | <b>1136-003</b> Top Mount Bracket for 165/275 gal, 26"<br><br><b>1136-004</b> Top Mount Bracket for 400 gal, 28"                                                                                                                              |                                                                                                                                                                                                                                                                                                                                       |
| Lightweight double wall tank tie down kit       |                              | <b>1136-001</b> Tie Down Anchor Kit for 165/275 gal<br><br><b>1136-002</b> Tie Down Anchor Kit for 400 gal                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                       |

5



# DIESEL EXHAUST FLUID (DEF)

|                                                                |     |
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# Closed Systems Drum Packages Electric Diaphragm Pump

## Features

- Compact design mounting bracket
- Heavy-duty cart - Easily holds and rolls up to 55 gallon drum
- Large semi-pneumatic tires - Allow for easy maneuvering of cart
- Large non-marking rear caster - Built in brake for safe and secure dispensing

### Includes:

- 8570-006 6' x 3/4" Suction hose
- 8561-012 12' x 3/4" Discharge hose
- 4530-054 Drip tray
- 4320-014 Drum cart 55 gal for DEF
- 4530-065 Side mount bracket

### Options:

- 3120-116 Meter DR style for DEF
- 1200-020 120 V AC Electric diaphragm pump
- 1200-021 12 V DC Electric diaphragm pump
- 3340-012 Auto nozzle, stainless steel
- 3340-015 Manual nozzle, polyethylene

**Pump includes automatic shutoff.**

**Pump is UL approved**



**DEF Packages do not include coupler systems. Order Separately.**

### TECHNICAL DATA

|                         | DATA 120 V AC<br>(1200-020)  | DATA 12 V DC<br>(1200-021)   |
|-------------------------|------------------------------|------------------------------|
| Max. Free Flow          | 8.5 GPM                      | 9.5 GPM                      |
| Working Pressure        | 23 psi (1.6 bar)             | 23 psi (1.6 bar)             |
| Power                   | 120 V AC                     | 12 V DC                      |
| Wetted Materials (pump) | Stainless Steel, Viton®, PPE | Stainless Steel, Viton®, PPE |
| Service Bulletin        | SB 1129                      | SB 1130                      |

| MODELS AVAILABLE | DESCRIPTION                         |
|------------------|-------------------------------------|
| <b>1210-046P</b> | 120 V AC Non-metered, Manual Nozzle |
| <b>1210-048P</b> | 120 V AC Non-metered, Auto Nozzle   |
| <b>1210-049P</b> | 120 V AC Metered, Auto Nozzle       |

**CLOSED system** containers have a valve coupling system that seals the container opening on drums and totes (IBC) to prevent dirt, debris, bugs, etc., from entering the container and contaminating the diesel exhaust fluid. Liquid in container system is sealed and secure, throughout container life cycle.

**DEF Packages do not include coupler systems. Order Separately.**

**You must choose a coupler kit to create a complete system for your distribution needs.**

for closed systems, use Reusable Poly Valve (RPV) or Reusable Stainless Valve (RSV) systems accessories. RSV and RPV components are interchangeable.

# Closed Systems Tote Packages Electric Diaphragm Pump

## Features

- Compact design mounting bracket

### Includes

- 8570-006 6' x 3/4" Suction hose
- 8561-020 20' x 3/4" Discharge hose
- 4530-054 Drip tray
- 4530-065 Side mount bracket

### Options

- 3120-116 Meter DR style for DEF
- 1200-020 120 V AC Electric diaphragm pump
- 1200-021 12 V DC Electric diaphragm pump
- 3340-012 Auto nozzle, stainless steel
- 3340-015 Manual nozzle, polyethylene

**Pump includes automatic shutoff.**  
**Pump is UL approved**



**DEF Packages do not include coupler systems. Order Separately.**

| TECHNICAL DATA          |                             |                             |
|-------------------------|-----------------------------|-----------------------------|
|                         | DATA 120 V AC<br>(1200-020) | DATA 12 V DC<br>(1200-021)  |
| Max. Free Flow          | 8.5 gal/min (32.18 l/min)   | 9.5 gal/min (34.07 l/min)   |
| Working Pressure        | 23 psi (1.6 bar)            | 23 psi (1.6 bar)            |
| Power                   | 120 V AC                    | 12 V DC                     |
| Wetted Materials (pump) | Stainless Steel, Viton, PPE | Stainless Steel, Viton, PPE |
| Service Bulletin        | SB 1129                     | SB 1130                     |

| MODELS AVAILABLE | DESCRIPTION                         |
|------------------|-------------------------------------|
| <b>1210-046</b>  | 120 V AC Non-metered, Manual Nozzle |
| <b>1210-047</b>  | 120 V AC Metered, Manual Nozzle     |
| <b>1210-048</b>  | 120 V AC Non-metered, Auto Nozzle   |
| <b>1210-049</b>  | 120 V AC Metered, Auto Nozzle       |
| <b>1210-050</b>  | 12 V DC Non-metered, Manual Nozzle  |
| <b>1210-052</b>  | 12 V DC Non-metered, Auto Nozzle    |
| <b>1210-053</b>  | 12 V DC Metered, Auto Nozzle        |

**CLOSED system** containers have a valve coupling system that seals the container opening on drums and totes (IBC) to prevent dirt, debris, bugs, etc., from entering the container and contaminating the diesel exhaust fluid. Liquid in container system is sealed and secure, throughout container life cycle.

**DEF Packages do not include coupler systems. Order Separately.**

**You must choose a coupler kit to create a complete system for your distribution needs.**

for closed systems, use Reusable Poly Valve (RPV) or Reusable Stainless Valve (RSV) systems accessories. RSV and RPV components are interchangeable.

# Closed Systems Drum Packages CF Diaphragm Pump

## Features

- Compact design mounting bracket
- Heavy-duty cart - Easily holds and rolls up to 55 gallon drum
- Large semi-pneumatic tires - Allows for easy maneuvering of cart
- Large non-marking rear caster - Built in brake for safe and secure dispensing

### Includes

- 1120-025A CF15 AODD Pump for DEF
- 8570-006 6' x 3/4" suction hose
- 8561-012 12' x 3/4" discharge hose
- 4530-054 Drip tray
- 4320-014 Drum cart 55 Gal for DEF
- 4530-065 Side mount bracket
- 3260-060 Filter Reg 1/4" auto drain, mini

### Options

- 3120-116 Meter DR style for DEF
- 3340-012 Auto nozzle, stainless steel



**DEF Packages do not include coupler systems. Order Separately.**

### TECHNICAL DATA

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Air inlet                | 3/8" NPSM(F)                                                    |
| Fluid inlet port         | 1/2" BSPP(F) DEF                                                |
| Fluid outlet port        | 1/2" BSPP(F) DEF                                                |
| Max. Free Flow           | 14 gal/min (50 l/min)                                           |
| Air pressure range       | 45-100 psi (3-7 bar)                                            |
| Solids in suspension     | 1/8" (3 mm)                                                     |
| Wetted Materials         | PTFE (Teflon), Viton®, Polypropylene, Stainless Steel, Hytrel®  |
| Recommended fluids       | Diesel exhaust fluid                                            |
| Recommended Applications | Fluid dispensing, transfer, evacuation and distribution systems |
| Service Bulletin         | SB 1145                                                         |

### MODELS AVAILABLE

### DESCRIPTION

|                  |                                 |
|------------------|---------------------------------|
| <b>1210-054P</b> | CF15 Non-metered, Manual Nozzle |
| <b>1210-056P</b> | CF15 Non-metered, Auto Nozzle   |
| <b>1210-057P</b> | CF15 Metered, Auto Nozzle       |

**CLOSED system** containers have a valve coupling system that seals the container opening on drums and totes (IBC) to prevent dirt, debris, bugs, etc., from entering the container and contaminating the diesel exhaust fluid. Liquid in container system is sealed and secure, throughout container life cycle.

Note: Pump packages include all hoses and adapters required for connecting a DEF pump to the air supply and DEF dispense line.

**DEF Packages do not include coupler systems.**

**You must choose a coupler kit to create a complete system for your fluid distribution needs.**

for closed systems, use Reusable Poly Valve (RPV) or Reusable Stainless Valve (RSV) systems accessories. RSV and RPV components are interchangeable.

# Closed Systems Tote Packages CF Diaphragm Pump

## Features

- Compact design mounting bracket

### Includes

- 1120-025A CF15 AODD Pump for DEF
- 8570-006 6' x 3/4" Suction hose
- 8561-020 20' x 3/4" Discharge hose
- 4530-054 Drip tray
- 4530-065 Side mount bracket
- 3260-060 Reg 1/4" auto drain, mini

### Options

- 3120-116 Meter DR style for DEF
- 3340-018 Manual nozzle, polyethylene- BSPP

**Pump includes automatic shutoff.  
Pump is UL approved**



**DEF Packages do not include coupler systems. Order Separately.**

| TECHNICAL DATA           |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| Air inlet                | 3/8" NPSM(F)                                                                             |
| Fluid inlet port         | 1/2" BSPP(F) DEF                                                                         |
| Fluid outlet port        | 1/2" BSPP(F) DEF                                                                         |
| Max. Free Flow           | 14 gal/min (50 l/min)                                                                    |
| Air pressure range       | 45-100 psi (3-7 bar)                                                                     |
| Solids in suspension     | 1/8" (3 mm)                                                                              |
| Wetted Materials         | PTFE (Teflon) , Viton <sup>®</sup> , Polypropylene, Stainless Steel, Hytrel <sup>™</sup> |
| Recommended fluids       | Diesel exhaust fluid                                                                     |
| Recommended Applications | Fluid dispensing, transfer, evacuation and distribution systems                          |
| Service Bulletin         | SB 1145                                                                                  |

| MODELS AVAILABLE | DESCRIPTION                     |
|------------------|---------------------------------|
| <b>1210-054</b>  | CF15 Non-metered, Manual Nozzle |
| <b>1210-056</b>  | CF15 Non-metered, Auto Nozzle   |
| <b>1210-057</b>  | CF15 Metered, Auto Nozzle       |

**CLOSED system** containers have a valve coupling system that seals the container opening on drums and totes (IBC) to prevent dirt, debris, bugs, etc., from entering the container and contaminating the diesel exhaust fluid. Liquid in container system is sealed and secure, throughout container life cycle.

Note: Pump packages include all hoses and adapters required for connecting a DEF pump to the air supply and DEF dispense line.

**DEF Packages do not include coupler systems.**

**You must choose a coupler kit to create a complete system for your fluid distribution needs.**

for closed systems, use Reusable Poly Valve (RPV) or Reusable Stainless Valve (RSV) systems accessories. RSV and RPV components are interchangeable.

# System Components

## Electric and AODD Pumps



| MODELS AVAILABLE | DESCRIPTION                               |
|------------------|-------------------------------------------|
| <b>1200-020</b>  | 120 V AC Diaphragm pump, UL auto shut-off |
| <b>1200-021</b>  | 12 V DC Diaphragm pump, UL auto shut-off  |



| MODELS AVAILABLE | DESCRIPTION         |
|------------------|---------------------|
| <b>1120-034A</b> | CF10 Diaphragm pump |
| <b>1120-025A</b> | CF15 Diaphragm pump |
| <b>1120-031A</b> | CF30 Diaphragm pump |

### TECHNICAL DATA 120 V AC

1200-020 120 V AC Diaphragm pump

|                   |                              |
|-------------------|------------------------------|
| Fluid inlet port  | 1" BSPP(M)                   |
| Fluid outlet port | 1" BSPP(M)                   |
| Flow Rate         | 8.5 gal/min (32.18 l/min)    |
| Working Pressure  | 23 psi (1.6 bar)             |
| Power             | 120 V AC, UL approved        |
| Wetted Materials  | Stainless Steel, Viton®, PPE |
| Service Bulletin  | SB 1129                      |

### TECHNICAL DATA 12 V DC

1200-021 12 V DC Diaphragm pump

|                   |                              |
|-------------------|------------------------------|
| Fluid inlet port  | 1" BSPP(M)                   |
| Fluid outlet port | 1" BSPP(M)                   |
| Flow Rate         | 9.5 gal/min (34.07 l/min)    |
| Working Pressure  | 23 psi (1.6 bar)             |
| Power             | 12 V DC, UL approved         |
| Wetted Materials  | Stainless Steel, Viton®, PPE |
| Service Bulletin  | SB 1130                      |

### TECHNICAL DATA CF10 - CF15

Diaphragm pump

|                      | 1120-034A CF10                                                             | 1120-025A CF15                                                 |
|----------------------|----------------------------------------------------------------------------|----------------------------------------------------------------|
| Air inlet            | 3/8" NPSM (F)                                                              | 1/2" BSPP(F)                                                   |
| Fluid inlet port     | 1/2" BSPP(F) DEF                                                           | 1/2" BSPP(F) DEF                                               |
| Fluid outlet port    | 1/2" BSPP(F) DEF                                                           | 1/2" BSPP(F) DEF                                               |
| Max. Free Flow       | 10 gal/min (38 l/min)                                                      | 14 gal/min (50 l/min)                                          |
| Air pressure range   | 22 to 102 psi (1.5 to 7 bar)                                               | 22 to 102 psi (1.5 to 7 bar)                                   |
| Solids in suspension | 1/8" (3 mm)                                                                | 1/8" (3 mm)                                                    |
| Wetted Materials     | PTFE (Teflon), Viton®, Polypropylene, Stainless Steel, Acetal, and Hytrel® | PTFE (Teflon), Viton®, Polypropylene, Stainless Steel, Hytrel® |
| Service Bulletin     | SB 1145                                                                    | SB 1145                                                        |

### TECHNICAL DATA CF30

Diaphragm pump

|                      | 1120-031A CF30                                                     |
|----------------------|--------------------------------------------------------------------|
| Air inlet            | 3/8" NPSM(F)                                                       |
| Fluid inlet port     | 1" BSPP(F) DEF                                                     |
| Fluid outlet port    | 1" BSPP(F) DEF                                                     |
| Max. Free Flow       | 28 gal/min (100 l/min)                                             |
| Air pressure range   | 22 to 102 psi (1.5 to 7 bar)                                       |
| Solids in suspension | 3/16" (4 mm)                                                       |
| Wetted Materials     | PTFE (Teflon), Viton®, Polypropylene, Stainless Steel, and Hytrel® |
| Service Bulletin     | SB 1145                                                            |

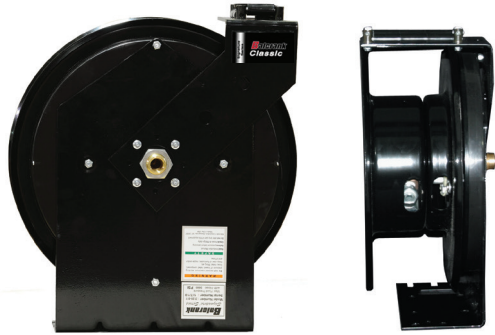
6

# System Components

## Hose Reels

The Classic Hose Reel has been the standard of reliability for over a decade. This solid, all steel hose reel is preferred for general duty, automotive dealerships, and service garages. Proven performance and reliable operation.

All Classic series reels include hose, hose stop and a 2.5' connecting hose.



The Extended Volume, EVX Series hose reels are designed for high volume heavy-duty applications where large hose diameters are required for increased flow. Perfect for heavy-duty fleet, construction, mining and industrial applications.

All EVX series reels include hose, hose stop and a 2.5' connecting hose.



| MODELS AVAILABLE                                                             | DESCRIPTION                                   | REPLACEMENT HOSE |
|------------------------------------------------------------------------------|-----------------------------------------------|------------------|
| <b>CLASSIC</b>                                                               |                                               |                  |
| DEF (Diesel Exhaust Fluid) Low pressure 150 psi (10 bar) for delivery of DEF |                                               |                  |
| <b>2400-006</b>                                                              | Bare reel, up to 3' x 3/4" ID BSPP (F)        | -                |
| <b>2400-007</b>                                                              | 16' x 3/4" ID BSPP (M) includes 3' inlet hose | 8569-016         |
| <b>2400-008</b>                                                              | 20' x 3/4" ID BSPP (M) includes 3' inlet hose | 8569-020         |
| <b>2400-009</b>                                                              | 30' x 3/4" ID BSPP (M) includes 3' inlet hose | 8569-030         |

| MODELS AVAILABLE                                                             | DESCRIPTION                                   | REPLACEMENT HOSE |
|------------------------------------------------------------------------------|-----------------------------------------------|------------------|
| <b>EXTENDED VOLUME (EV)</b>                                                  |                                               |                  |
| DEF (Diesel Exhaust Fluid) Low pressure 150 psi (10 bar) for delivery of DEF |                                               |                  |
| <b>2400-010</b>                                                              | Bare reel, up to 50' x 3/4" ID BSPP (F)       | -                |
| <b>2400-011</b>                                                              | 50' x 3/4" ID BSPP (M) includes 3' inlet hose | 8569-050         |

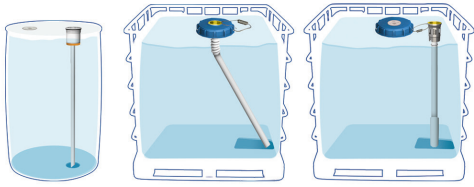
| TECHNICAL DATA      |                                                        |
|---------------------|--------------------------------------------------------|
| Fluid inlet port    | 3/4" BSPP cone seal bare                               |
| Fluid outlet port   | 3/4" BSPP bare                                         |
| Inlet/Outlet thread | 3/4" BSPP for 3/4" hoses                               |
| Wetted Materials    | Stainless steel, Polypropylene, and Viton <sup>®</sup> |
| Service Bulletin    | SB 2028                                                |

| TECHNICAL DATA      |                                                        |
|---------------------|--------------------------------------------------------|
| Fluid inlet port    | 3/4" BSPP cone seal bare                               |
| Fluid outlet port   | 3/4" BSPP bare                                         |
| Inlet/Outlet thread | 3/4" BSPP for 3/4" hoses                               |
| Wetted Materials    | Stainless steel, Polypropylene, and Viton <sup>®</sup> |
| Service Bulletin    | SB 2028                                                |




| METERS AND SOLENOIDS                                                                |          |                                                          |                         |                                       |                    |                                         |
|-------------------------------------------------------------------------------------|----------|----------------------------------------------------------|-------------------------|---------------------------------------|--------------------|-----------------------------------------|
|                                                                                     | MODEL    | DESCRIPTION                                              | INLET/OUTLET PORT       | FLOW RATE                             | OPERATING PRESSURE | POWER                                   |
|    | 3120-116 | DR Style Meter for DEF                                   | 1/2" BSPP(F/F) & flange | 0.25 - 13.2 gal/min<br>(1 - 50 l/min) | 435 psi (30 bar)   | 2 x 1.5 V alkaline batteries size "AAA" |
|    | 3120-206 | Turbine Meter, pulse-out                                 | 1" BSPP(F/F)            | 83 PPQ                                | 145 psi (10 bar)   | 24 V AC                                 |
|    | 3120-207 | Solenoid                                                 | 3/4" NPT(F/F)           | 8.4 gal/min<br>(32.71 l/min)          | 150 psi (10 bar)   | 24 V AC                                 |
| NOZZLES                                                                             |          |                                                          |                         |                                       |                    |                                         |
|                                                                                     | MODEL    | DESCRIPTION                                              |                         |                                       |                    |                                         |
|    | 3340-011 | Nozzle, manual Polyethylene 3/4" barb (M)                |                         |                                       |                    |                                         |
|   | 3340-018 | Nozzle, manual Polyethylene 3/4" BSPP(F)                 |                         |                                       |                    |                                         |
|  | 3340-015 | Nozzle, manual Polyethylene 1" barb (M)                  |                         |                                       |                    |                                         |
|  | 3340-012 | Nozzle, automatic shut-off Stainless steel, 3/4" BSPP(F) |                         |                                       |                    |                                         |
|  | 3340-017 | Nozzle, Magnetic, 3/4" BSPP(F)                           |                         |                                       |                    |                                         |
|  | 4530-054 | Nozzle holder, drip tray                                 |                         |                                       |                    |                                         |






# Coupler Components and Kits



Drum Coupler Systems      Center Tote Coupler Systems      Side Tote Coupler Systems

**NOTE:** When ordering suction kits ensure you have selected the correct dip tube orientation for your system. DEF Packages do not include coupler systems. You must choose a coupler kit to create a complete system for your fluid distribution needs.

| OPEN SYSTEMS COMPONENTS                                                             |                 |                                                                                                  |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|
| For open systems, use Drum Quick Pro (DQP) accessories.                             |                 |                                                                                                  |
| DRUM QUICK PRO (DQP)                                                                |                 |                                                                                                  |
|    | <b>4530-001</b> | Coupler, polyethylene 3/4" barb                                                                  |
|                                                                                     | <b>3250-002</b> | Replacement filter, air - used on 4530-001                                                       |
|  | <b>4530-002</b> | Insert, polyethylene, 2" ABUT (M) (American Buttress)                                            |
|                                                                                     | <b>4530-006</b> | Dip tube, 55 gal drum mount length                                                               |
|  | <b>4530-005</b> | Dip tube, 275 gal tote mount length                                                              |
|                                                                                     | <b>4530-006</b> | Dip tube, 55 gal drum mount length                                                               |
| SUCTION KITS                                                                        |                 |                                                                                                  |
|  | <b>4530-007</b> | Suction Kit, DQP series<br>Includes: coupler, insert, key and 55 gal drum mount length dip tube  |
|                                                                                     | <b>4530-008</b> | Suction Kit, DQP series<br>Includes: coupler, insert, key and 275 gal tote mount length dip tube |
|  | <b>4530-009</b> | Suction Kit, DQP series<br>Includes: coupler, insert, key and 330 gal tote mount length dip tube |

| CLOSED SYSTEMS                                                                                                                                      |                                                                                                                  |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| For closed systems, use Reusable Poly Valve (RPV) or Reusable Stainless Valve (RSV) systems accessories. RSV and RPV components are interchangeable |                                                                                                                  |                                                                                                                    |
| REUSABLE STAINLESS VALVE (RSV)                                                                                                                      |                                                                                                                  |                                                                                                                    |
| 4 Prong, Green Seal - Preferred and Balcrank recommended                                                                                            |                                                                                                                  |                                                                                                                    |
|                                                                    | <b>4530-036</b>                                                                                                  | Coupler, Stainless Steel 3/4" barb for use with 4530-037 only                                                      |
|                                                                                                                                                     | <b>4530-048</b>                                                                                                  | Coupler, Fill head 1" NPT(M) for use with 4530-037 only                                                            |
|                                                                                                                                                     | <b>4530-037</b>                                                                                                  | Insert, stainless steel, 2" ABUT(M) (American Buttress)                                                            |
|                                                                                                                                                     | <b>4530-038</b>                                                                                                  | Key, stainless steel, RSV/RPV                                                                                      |
| REUSABLE POLY VALVE (RPV)                                                                                                                           |                                                                                                                  |                                                                                                                    |
|                                                                    | <b>4530-057</b>                                                                                                  | Coupler, RSV/RPV, Poly - 3/4" barb                                                                                 |
|                                                                                                                                                     | <b>4530-063</b>                                                                                                  | Insert, polyethylene, 2" ABUT (M) (American Buttress)                                                              |
|                                                                                                                                                     | <b>4530-058</b>                                                                                                  | Key - Poly, RSV/RPV                                                                                                |
| RSV/RPV DIP TUBES                                                                                                                                   |                                                                                                                  |                                                                                                                    |
|                                                                    | <b>4530-041</b>                                                                                                  | Dip tube, 55 gal drum mount length                                                                                 |
|                                                                                                                                                     | <b>4530-044</b>                                                                                                  | Dip tube, 275 gal tote - center mount length                                                                       |
|                                                                                                                                                     | <b>4530-040</b>                                                                                                  | Dip tube, 275 gal tote - side mount length                                                                         |
|                                                                                                                                                     | <b>4530-043</b>                                                                                                  | Dip tube, 330 gal tote - center mount length                                                                       |
|                                                                                                                                                     | <b>4530-039</b>                                                                                                  | Dip tube, 330 gal tote - side mount length                                                                         |
| SUCTION KITS                                                                                                                                        |                                                                                                                  |                                                                                                                    |
|                                                                  | <b>4530-042</b>                                                                                                  | Suction Kit, RSV series - includes: coupler 4530-036, insert and 55 gal drum mount length dip tube                 |
|                                                                                                                                                     | <b>4530-045</b>                                                                                                  | Suction Kit, RSV series - includes: coupler 4530-036, insert and 2-275 gal tote mount length dip tube              |
|                                                                                                                                                     | <b>4530-046</b>                                                                                                  | Suction Kit, RSV series - includes: coupler 4530-036, insert and 2-330 gal tote mount length dip tube              |
|                                                                                                                                                     | <b>4610-001</b>                                                                                                  | Suction Kit, RSV/RPV SS series - includes: coupler 4530-036, DEF Hose 6' x 3/4" ID, Fitting 1" BSPP(F) x 3/4" barb |
|                                                                                                                                                     | <b>4530-059</b>                                                                                                  | Suction Kit, RPV Poly series - includes: coupler 4530-057, insert and 55 gal drum dip mount length tube            |
|                                                                                                                                                     | <b>4530-060</b>                                                                                                  | Suction Kit, RPV Poly series - includes: coupler 4530-057, insert and 2-275 gal tote mount length dip tube         |
|                                                                                                                                                     | <b>4530-061</b>                                                                                                  | Suction Kit, RPV Poly series - includes: coupler 4530-057, insert and 2-330 gal tote mount length dip tube         |
| <b>4610-003</b>                                                                                                                                     | Suction Kit, RPV Poly series - includes: coupler 4530-057, DEF Hose 6' x 3/4" ID, Fitting 1" BSPP(F) x 3/4" barb |                                                                                                                    |
| COUPLER KIT ACCESSORIES                                                                                                                             |                                                                                                                  |                                                                                                                    |
|                                                                  | <b>4530-066</b>                                                                                                  | Center cap, tote 6" diameter x 2.5" ID ABUT (American Buttress)                                                    |
|                                                                                                                                                     | <b>6210-001</b>                                                                                                  | Funnel with spout. 1 pt. 1/2" spout                                                                                |



# System Components

## Hand Pump, Hoses, and Hose Accessories



| MODELS AVAILABLE | DESCRIPTION             |
|------------------|-------------------------|
| 1300-028         | Hand Pump, Manual lever |

| TECHNICAL DATA                                             |                                     |
|------------------------------------------------------------|-------------------------------------|
| All polypropylene construction, includes a 2" bung adapter |                                     |
| Delivery Volume                                            | 1 pint per stroke (500 cc)          |
| Temp Range                                                 | 23 °F to 113 °F<br>(-5 °C to 45 °C) |
| Wetted Materials                                           | Polypropylene, EPDM                 |
| Service Bulletin                                           | SB 1117                             |

### HOSE - SUCTION - BEFORE PUMP



- 8570-003 3' x 3/4" ID Cut-end
- 8570-006 6' x 3/4" ID Cut-end
- 8572-006 6' x 1" ID Cut-end w/ hose clamps

### HOSE - DISPENSE - AFTER PUMP

All hoses are specially formulated polyurethane unless otherwise stated



- 8551-006 6' x 1" ID w/hose clamps and simple spout
- 8560-003 3' x 3/4" ID w/hose clamps
- 8560-012 12' x 3/4" ID w/hose clamps
- 8562-003 3' x 3/4" ID Swivel 3/4" BSPP(M) - Straight 3/4" BSPP(M)
- 8569-016 16' x 3/4" ID Swivel 3/4" BSPP(M/M)
- 8569-020 20' x 3/4" ID Swivel 3/4" BSPP(M/M)
- 8569-030 30' x 3/4" ID Swivel 3/4" BSPP(M/M)
- 8569-050 50' x 3/4" ID Swivel 3/4" BSPP(M/M)

### HOSE - DISPENSE - AFTER PUMP - CLAMP NOT INCLUDED

All hoses are specially formulated polyurethane unless otherwise stated



- 8561-003 3' x 3/4" ID Swivel 3/4" BSPP(M) cut end requires a hose clamp NOT included Order 2230-032
- 8561-006 6' x 3/4" ID Swivel 3/4" BSPP(M) cut end requires a hose clamp NOT included Order 2230-032
- 8561-012 12' x 3/4" ID Swivel 3/4" BSPP(M) cut end requires a hose clamp NOT included Order 2230-032
- 8561-016 16' x 3/4" ID Swivel 3/4" BSPP(M) cut end requires a hose clamp NOT included Order 2230-032
- 8561-020 20' x 3/4" ID Swivel 3/4" BSPP(M) cut end requires a hose clamp NOT included Order 2230-032
- 8561-030 30' x 3/4" ID Swivel 3/4" BSPP(M) cut end requires a hose clamp NOT included Order 2230-032

### HOSE ACCESSORIES



- 2230-033 Hose bend restrictors - 12" black poly



- 2230-032 Stainless steel hose clamp 3/4"

| ADAPTERS-ELBOW                   |                 |                                                         | SEALS                             |                 |                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|-----------------|---------------------------------------------------------|-----------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | <b>3270-162</b> | Poly Hose elbow, 1" BSPP(M) to 3/4" barb                |                                   | <b>3270-171</b> | 3/4" Stainless steel /Viton' bonded seal                                                                                                                                                                                                                                                                                      |
|                                  | <b>3270-176</b> | Poly Hose elbow, 1" NPT(M) to 3/4" barb                 |                                   | <b>3270-169</b> | 1" Stainless steel /Viton' bonded seal                                                                                                                                                                                                                                                                                        |
|                                  | <b>3270-175</b> | Stainless steel elbow, 1" BSPP(M) X 3/4" BSPP(F) 90 DEG | <b>FILTERS</b>                    |                 |                                                                                                                                                                                                                                                                                                                               |
| <b>ADAPTERS - HOSE BARB</b>      |                 |                                                         |                                   | <b>3250-001</b> | Filter, in-line 10 micron - 3/4" NPT (filter included), for replacement filter use 832796                                                                                                                                                                                                                                     |
|                                  | <b>3270-163</b> | Poly Hose barb, 1" BSPP(M) to 3/4" barb                 | <b>BRACKETS</b>                   |                 |                                                                                                                                                                                                                                                                                                                               |
|                                  | <b>3270-165</b> | Poly Hose barb, 1" NPT(M) to 3/4" barb                  |                                   | <b>4530-064</b> | CF AODD Pump Shelf for use with the 4530-065 side mount bracket. Use CF AODD pump shelf to attach the CF15 pump to the side mount bracket                                                                                                                                                                                     |
|                                  | <b>3270-166</b> | Poly Hose barb, 3/4" NPT(M) to 3/4" barb                |                                   |                 |                                                                                                                                                                                                                                                                                                                               |
|                                  | <b>3270-177</b> | Poly Hose barb, 1/2" NPT(M) to 3/4" barb                |                                   | <b>4411-016</b> | Conventional AODD Wall Mount Bracket                                                                                                                                                                                                                                                                                          |
|                                  | <b>3270-164</b> | Stainless steel swivel 3/4" BSPP(M) to 3/4" barb        |                                   |                 |                                                                                                                                                                                                                                                                                                                               |
| <b>ADAPTERS - COUPLERS (F/F)</b> |                 |                                                         | <b>DOLLY BASES AND DRUM CARTS</b> |                 |                                                                                                                                                                                                                                                                                                                               |
|                                  | <b>3270-173</b> | Poly coupler, 1" NPT(F) to 1" BSPP(F)                   |                                   | <b>4320-014</b> | <b>Drum Cart, 55-gal heavy duty</b><br><ul style="list-style-type: none"> <li>• Heavy-duty cart - Easily holds and rolls up to 55 gallon drum</li> <li>• Large semi-pneumatic tires - Allows for easy maneuvering of cart</li> <li>• Large non-marking rear caster - Built in brake for safe and secure dispensing</li> </ul> |
|                                  | <b>3270-167</b> | Stainless steel coupler, 1" BSPP(F) to 1" BSPP(F)       |                                   |                 |                                                                                                                                                                                                                                                                                                                               |
|                                  | <b>3270-168</b> | Poly coupler, reducer - 1" BSPP(F) to 3/4" BSPP(F)      |                                   |                 |                                                                                                                                                                                                                                                                                                                               |
| <b>ADAPTERS - HEX NIPPLE</b>     |                 |                                                         |                                   | <b>4310-004</b> | Dolly Base, 55-gal heavy duty                                                                                                                                                                                                                                                                                                 |
|                                  | <b>3270-172</b> | Stainless steel Adapter, 1" BSPP(M) x 3/4" NPT(M)       |                                   |                 |                                                                                                                                                                                                                                                                                                                               |
| <b>ADAPTERS - SWIVEL UNION</b>   |                 |                                                         |                                   |                 |                                                                                                                                                                                                                                                                                                                               |
|                                  | <b>3270-174</b> | Stainless steel swivel, 1" BSPP(F) to 3/4" BSPP(M)      |                                   |                 |                                                                                                                                                                                                                                                                                                                               |



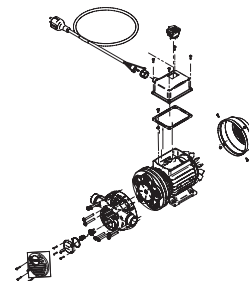
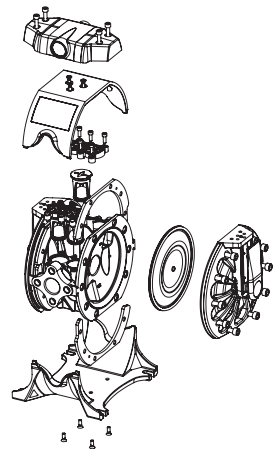
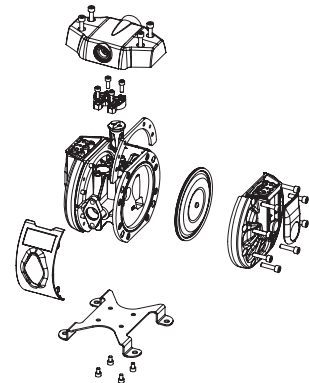
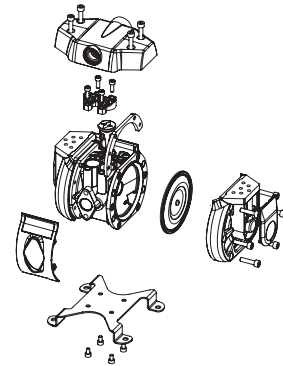
# Repair Kits for DEF Pumps

| CF10                        |            |                                  |
|-----------------------------|------------|----------------------------------|
| PUMP MODELS                 | KIT NUMBER | DESCRIPTION                      |
| CF10 AODD PUMPS - 1120-034A |            |                                  |
| 1120-034A                   | 833732     | Air valve kit                    |
| 1120-034A                   | 833207     | Stroke sensor kit                |
| 1120-034A                   | 833208     | Check Ball kit                   |
| 1120-034A                   | 833735     | Ball Seats, O-rings, ball guides |
| 1120-034A                   | 833338     | Diaphragms kit                   |
| 1120-034A                   | 833332     | Bushing, seal, push rod          |

| CF15                        |            |                                                |
|-----------------------------|------------|------------------------------------------------|
| PUMP MODELS                 | KIT NUMBER | DESCRIPTION                                    |
| CF15 AODD PUMPS - 1120-025A |            |                                                |
| 1120-025A                   | 833732     | Air valve kit                                  |
| 1120-025A                   | 833207     | Stroke sensor kit                              |
| 1120-025A                   | 833208     | Check Ball kit                                 |
| 1120-025A                   | 833735     | Ball Seats, O-rings, ball guides               |
| 1120-025A                   | 833210     | Bushing, seal, push rod (Prior to 2/1/2013)    |
| 1120-025A                   | 833332     | Bushing, seal, push rod (After to 2/1/2013)    |
| 1120-025A                   | 833211     | Diaphragms kit (Prior to 2/1/2013)             |
| 1120-025A                   | 833338     | Diaphragms kit (After to 2/1/2013)             |
| 1120-025A                   | 833341     | Retrofit Kit (Updates pumps prior to 2/1/2013) |

| CF30                        |            |                                                |
|-----------------------------|------------|------------------------------------------------|
| PUMP MODELS                 | KIT NUMBER | DESCRIPTION                                    |
| CF30 AODD PUMPS - 1120-031A |            |                                                |
| 1120-031A                   | 833733     | Air valve kit                                  |
| 1120-031A                   | 833207     | Stroke sensor kit                              |
| 1120-031A                   | 833233     | Check Ball kit                                 |
| 1120-031A                   | 833738     | Ball Seats, O-rings, ball guides               |
| 1120-031A                   | 833235     | Bushing, seal, push rod (Prior to 2/1/2013)    |
| 1120-031A                   | 833335     | Bushing, seal, push rod (After to 2/1/2013)    |
| 1120-031A                   | 833339     | Diaphragms kit (After to 2/1/2013)             |
| 1120-031A                   | 833342     | Retrofit Kit (Updates pumps prior to 2/1/2013) |

| ELECTRIC DIAPHRAGM PUMPS                                 |            |                                      |
|----------------------------------------------------------|------------|--------------------------------------|
| PUMP MODELS                                              | KIT NUMBER | DESCRIPTION                          |
| ALUMINUM AODD PUMPS - 1200-020 120V AC, 1200-021 120V DC |            |                                      |
| 1200-020, 1200-021                                       | 833415     | Bypass valve kit                     |
| 1200-020, 1200-021                                       | 833416     | Pump head kit                        |
| 1200-020, 1200-021                                       | 833417     | Fan cover kit                        |
| 1200-020                                                 | 833418     | Electric connection kit              |
| 1200-021                                                 | 833419     | Electric connection kit for 12V pump |





# USED FLUID EQUIPMENT

|                                          |     |
|------------------------------------------|-----|
| Roughneck II™ . . . . .                  | 166 |
| Premium Duty Drain . . . . .             | 167 |
| Spillguard Drain . . . . .               | 168 |
| Used Fluid Equipment Evacuator . . . . . | 169 |
| Truck Drain and Drain Pit Boss . . . . . | 170 |
| AODD Evacuation Packages . . . . .       | 171 |
| AODD Pump Accessories . . . . .          | 172 |

# Used Fluid Equipment Roughneck II™

The Roughneck II™ drain captures used fluids and transfers them to any bulk storage tank. The unit uses regular shop air and can be pressurized to allow for self-evacuating.

## Features

- Patented automatic fluid evacuation valve eliminates gravity draining, pouring, or the need for an evacuation pump, **made in the USA**
  - 23 gallon storage tank; fewer drain intervals
  - A low pressure safety valve prevents over pressurization of tank.
  - Clear evacuation hose; provides fast fluid evacuation and shows fluid levels in tank.
- Includes:**
- 19.25" diameter catch basin that features an inlet strainer and s-hooks for tools
  - Splashguard bowl design prevents splattering, speeds drainage
  - Fully adjustable bowl height from 45" to 72"
  - One hand operation. No ball valves required for evacuation of fluid
  - Roughneck outlet tube mounts securely into bulk used fluid reservoir
  - 7' evacuation tube provides sight gauge for fluid level
  - Tank handle makes maneuvering easy.
  - Heavy gauge, all-steel construction guarantees long life
  - Tip-resistant balanced design
  - Large diameter rear rubber wheels and non-marking wide front casters maneuver the toughest shop floors



### TECHNICAL DATA

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| Air Pressure Operating Range   | 5-25 psi (.34-1.72 bar)                         |
| Tank Capacity                  | 23 gal (87 l)                                   |
| Telescoping Range              | 45"-72" (1.14-1.83 m)                           |
| Maximum Pressure               | 25 psi (1.72 bar)                               |
| Pressure Relief Valve          | 30 psi (2.07 bar)                               |
| Air Inlet Size (quick connect) | 1/4" NPT                                        |
| Fluid Outlet Nozzle            | 1" OD                                           |
| Estimated Evacuation Time      | 3 - 4 min.                                      |
| Wetted Materials               | Zinc Plated Steel, Steel, Viton®, HDPE, and PVC |
| Service Bulletin               | SB 4027                                         |

### MODELS AVAILABLE

### DESCRIPTION

|                 |                                      |
|-----------------|--------------------------------------|
| <b>4110-022</b> | Roughneck II™ Used Oil Drain         |
| <b>4110-023</b> | Roughneck II™ Used Anti-freeze Drain |
| <b>4140-064</b> | Replacement Drain Bowl               |

# Used Fluid Equipment Premium Duty

Premium drains capture used fluids and transfers them to any bulk storage tank using a cam-lock kit and evacuation system.



## Features

- All steel tank and base design made from heavy gauge steel, guaranteeing long life, **made in the USA**
- Non-marking rubber wheels and 4" casters for easy maneuvering on any floor surface
- Drainage bowl made from high strength poly to provide collapsible safety feature
- Tip resistant balanced design
- Prevents splattering and includes strainer to keep debris from entering tank and speed drainage
- High quality powder coating for corrosion resistance. Drains are offered in black for used fluid and green for used Anti-freeze (Glycol)
- Used oil drains will come with a 1" cam-lock nipple and dust cap
- Used anti-freeze drains will come with a 3/4" cam-lock nipple and dust cap

| TECHNICAL DATA                 |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| Tank Capacity                  | 23 gal (87 l)                                                        |
| Telescoping Range              | 45" - 72" (1.14 - 1.83 m)                                            |
| Air Inlet Size (quick connect) | 1/4" NPT                                                             |
| Fluid Outlet                   | Used oil 1" cam-lock nipple<br>Used anti-freeze 3/4" cam-lock nipple |
| Wetted Materials               | Zinc Plated Steel, Steel, Viton®, HDPE, and PVC                      |
| Service Bulletin               | SB 4226                                                              |

| MODELS AVAILABLE | DESCRIPTION                                  |
|------------------|----------------------------------------------|
| <b>4110-024</b>  | Premium Duty Used Oil Drain                  |
| <b>4110-025</b>  | Premium Duty Used Anti-freeze (Glycol) Drain |

### CAM-LOCK COUPLER & NIPPLE RATED FOR 250 PSI (17 BAR)

|                           |  |                                       |
|---------------------------|--|---------------------------------------|
| Cam-Lock Coupler & Nipple |  | <b>4140-044</b> Coupler 3/4" NPT(F)   |
|                           |  | <b>4140-017</b> Coupler 1" NPT(F)     |
|                           |  | <b>4140-054</b> Nipple 3/4" NPT(F)    |
|                           |  | <b>4140-055</b> Nipple 1" NPT(F)      |
|                           |  | <b>4140-045</b> Nipple 3/4" NPT(M)    |
|                           |  | <b>4140-018</b> Nipple 1" NPT(M)      |
|                           |  | <b>4140-046</b> Dust Cap 3/4" NPT(F)  |
|                           |  | <b>4140-019</b> Dust Cap 1" NPT(F)    |
|                           |  | <b>4140-052</b> Dust Plug 3/4" NPT(M) |
|                           |  | <b>4140-053</b> Dust Plug 1" NPT(M)   |

### DRY BREAK COUPLER & NIPPLE RATED FOR VACUUM OR UP TO 3,000 PSI (207 BAR)

|                            |  |                                                      |
|----------------------------|--|------------------------------------------------------|
| Dry Break Coupler & Nipple |  | <b>4140-016</b> Coupler 3/4" NPT(F)                  |
|                            |  | <b>4140-050</b> Coupler 1" NPT(F)                    |
|                            |  | <b>4140-023</b> Nipple 3/4" NPT(F)                   |
|                            |  | <b>4140-051</b> Nipple 1" NPT(F)                     |
| Drain Bowl                 |  | <b>4140-064</b> Replacement Drain Bowl 1 1/4" NPT(F) |

### OLD STYLE DRAIN CONVERSION

Conversion of old style drains with dry break couplers use

|                 |                                    |
|-----------------|------------------------------------|
| for Used Oil    | <b>3270-054</b> Bushing 1" x 3/4"  |
|                 | <b>4140-018</b> Nipple 1" NPT(M)   |
| for Anti-freeze | <b>4140-045</b> Nipple 3/4" NPT(M) |

# Used Fluid Equipment Spillguard

Spillguard drains capture used fluids and transfer to any bulk storage tank using a cam-lock kit and evacuation system



## Features







- Balcrank "wide track" 4" caster dolly set for easy maneuvering on any floor surface
- All steel cover, container, and base design, **made in the USA**
- Drainage bowl made from high strength poly to provide collapsible safety feature and to assist in preventing container failure when an object is lowered onto drainage bowl
- Drain bowl prevents splattering and includes strainer to keep debris from entering container and speed drainage
- Tip resistant balanced design
- High quality powder coating for corrosion resistance. Drains are offered in black for used fluid and green for used Anti-freeze (Glycol)
- Used oil drains will come with a 1" cam-lock nipple and dust cap
- Used anti-freeze drains will come with a 3/4" cam-lock nipple and dust cap

### TECHNICAL DATA






|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| Tank Capacity             | 16 gal (60.5 l)                                                      |
| Telescoping Range         | 0-27 in. (0-69 m)                                                    |
| Air Inlet (quick connect) | 1/4" NPT                                                             |
| Fluid Outlet              | Used oil 1" cam-lock nipple<br>Used anti-freeze 3/4" cam-lock nipple |
| Wetted Materials          | Zinc Plated Steel, Steel, Viton®, HDPE, and PVC                      |
| Service Bulletin          | SB 4225                                                              |

| MODELS AVAILABLE | DESCRIPTION                                         |
|------------------|-----------------------------------------------------|
| <b>4110-026</b>  | Spillguard used oil drain                           |
| <b>4110-027</b>  | Spillguard used oil drain drumless                  |
| <b>4110-028</b>  | Spillguard used anti-freeze (Glycol) drain          |
| <b>4110-029</b>  | Spillguard used anti-freeze (Glycol) drain drumless |

### CAM-LOCK COUPLER & NIPPLE RATED FOR 250 PSI (17 BAR)

|                           |                                                                                     |                                       |
|---------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
| Cam-Lock Coupler & Nipple |  | <b>4140-044</b> Coupler 3/4" NPT(F)   |
|                           |  | <b>4140-017</b> Coupler 1" NPT(F)     |
|                           |  | <b>4140-054</b> Nipple 3/4" NPT(F)    |
|                           |  | <b>4140-055</b> Nipple 1" NPT(F)      |
|                           |  | <b>4140-045</b> Nipple 3/4" NPT(M)    |
|                           |  | <b>4140-018</b> Nipple 1" NPT(M)      |
|                           |  | <b>4140-046</b> Dust Cap 3/4" NPT(F)  |
|                           |  | <b>4140-019</b> Dust Cap 1" NPT(F)    |
|                           |  | <b>4140-052</b> Dust Plug 3/4" NPT(M) |
|                           |  | <b>4140-053</b> Dust Plug 1" NPT(M)   |

### DRY BREAK COUPLER & NIPPLE RATED FOR VACUUM OR UP TO 3,000 PSI (207 BAR)

|                            |                                                                                      |                                                   |
|----------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------|
| Dry Break Coupler & Nipple |  | <b>4140-016</b> Coupler 3/4" NPT(F)               |
|                            |  | <b>4140-050</b> Coupler 1" NPT(F)                 |
|                            |  | <b>4140-023</b> Nipple 3/4" NPT(F)                |
| Drain Bowl                 |  | <b>4140-051</b> Nipple 1" NPT(F)                  |
|                            |  | <b>4140-064</b> Replacement Drain Bowl 1 1/4" NPT |

### OLD STYLE DRAIN CONVERSION

Conversion of old style drains with drybreak couplers use

|                 |                                    |
|-----------------|------------------------------------|
| for Used Oil    | <b>3270-054</b> Bushing 1" x 3/4"  |
|                 | <b>4140-018</b> Nipple 1" NPT(M)   |
| for Anti-freeze | <b>4140-045</b> Nipple 3/4" NPT(M) |

7

## Features

- Extract used oil and other fluids from any vehicle - safer, cleaner
- No more stripped drain plugs
- Great for cars, boats, motorcycles, and small engines
- Easily remove overfills
- Vacuum-charged unit is completely portable and easy to use
- Includes five suction probes (metal and flexible)
- Suction probes equipped with quick disconnect couplers
- Adapters for BMW and Volkswagen included
- Self-evacuating feature makes emptying clean and easy
- Available version with clear bowl  
Capacity: 2 gal (7.5 l)



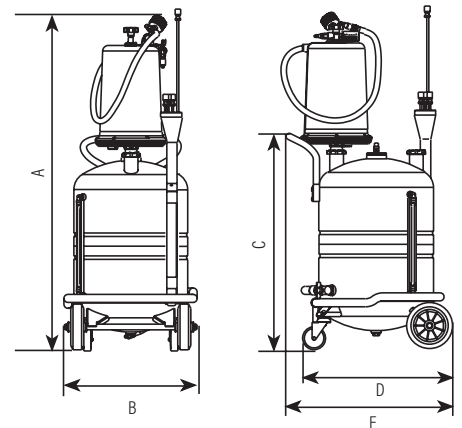
| TECHNICAL DATA          |                    |                    |
|-------------------------|--------------------|--------------------|
|                         | 4140-056           | 4140-057           |
| Tank capacity           | 18.5 gal (64.35 l) | 18.5 gal (64.35 l) |
| Max. draining capacity  | 70%                | 80%                |
| Air pressure for vacuum | 100 psi (7 bar)    | 100 psi (7 bar)    |
| Depressurization time   | 2' 15"             | 2' 15"             |
| Suction hose            | 6 1/2" (2m)        | 6 1/2" (2m)        |
| Draining hose           | 5' (1.5 m)         | 5' (1.5 m)         |
| Service Bulletin        | SB 4081            | SB 4082            |

**Warning!** Not to be used with flammable fluids.

| EXTRACTOR WANDS |              |                                  |                   |
|-----------------|--------------|----------------------------------|-------------------|
| Part Number     | Material     | Wand Kit                         | Wand Kit Includes |
| 833453          | All          | Wand Kit                         | Wand Kit Includes |
| 833462          | Flex         | .27 X .19 X 39.37 (7 X 5 X 1000) | ✓                 |
| 833465          | Flex         | .23 X .15 X 27.55 (6 X 4 X 700)  | ✓                 |
| 833466          | Flex         | .31 X .23 X 27.55 (8 X 6 X 700)  | ✓                 |
| 833463          | Rigid Copper | .19 X .15 X 27.55 (5 X 4 X 700)  | ✓                 |
| 833464          | Rigid Copper | .23 X .19 X 27.55 (6 X 5 X 700)  | ✓                 |
| 833460          | Adapter      | Volkswagen, Audi Group           | ✓                 |
| 833461          | Adapter      | Peugeot Group                    | ✓                 |



| MODELS AVAILABLE | DESCRIPTION                                        |
|------------------|----------------------------------------------------|
| 4140-056         | Oil Evacuator                                      |
| 4140-057         | Oil Evacuator with Clear Dome and Mercedes adapter |
| 833472           | Vacuum pump kit                                    |



| Dimensions inches (MM) |                |                |                 |                 |
|------------------------|----------------|----------------|-----------------|-----------------|
| A                      | B              | C              | D               | E               |
| 46.06"<br>(1,170)      | 18.5"<br>(470) | 29.5"<br>(750) | 18.70"<br>(475) | 22.84"<br>(580) |

# Used Fluid Equipment

## Truck Drain and Drain-Pit Boss

The truck drain comes pre-assembled allowing for immediate use. Includes "used oil only" and "used anti-freeze only" decals for fluid identification. Connects to a used oil evacuation system using a cam-lock kit and evacuation system.

The Pit Boss rolling pit drain captures used fluids. Specifically designed to easily roll on guide tracks in the user's pit and connect to a used fluid evacuation system.

The low volume truck drain comes pre-assembled allowing for immediate use. Connects to a used oil evacuation system using a 3/4" cam-lock kit for anti-freeze or a 1" cam-lock kit for used fluid.

## Features

### Truck Drain

- Two fixed 8" wheels and one swivel caster
- Double baffles with upper screen and a catch lip help prevent fluid from splashing out
- Tubular U-handle design for excellent maneuvering
- All steel design

### Low Profile Truck Drain

- Two anti-splash baffles, side splash guards and a metal catch screen. Select a 3/4" cam-lock kit for anti-freeze or a 1" cam-lock kit for used fluid

### Pit Boss

- Two anti-splash baffles, side splash guards and a metal catch screen
- Front and rear drain ports
- 3" diameter wheels which are mounted to accommodate a pit track width of 34" to 53"
- Tool shelf below the tank for pit service tool
- All steel design



| TECHNICAL DATA   |                                                           |                                                   |                                                          |
|------------------|-----------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|
| MODELS           | 4120-003<br>4120-004                                      | 4120-006                                          | 4140-060<br>4140-020                                     |
| Tank Capacity    | 5.2 gal (20 l)                                            | 26 gal (98.4 l)                                   | 34 gal (128.7 l)                                         |
| Fluid Outlet     | 4120-003 3/4" for anti-freeze<br>4120-004 1" for used oil | 1"                                                | 4140-060 1" cam-lock nipple<br>4140-020 1" NPT(F) bare   |
| Measurements     | 9" H x 15" W x 32" L                                      | 9" H x 24" W x 36" L                              | 16.72" H x 28.4" W x 34" L,<br>2" adjustable unit height |
| Wetted Materials | Zinc Plated Steel, Steel, Viton,<br>HDPE, and PVC         | Zinc Plated Steel, Steel, Viton,<br>HDPE, and PVC | Zinc Plated Steel, Steel, Viton,<br>HDPE, and PVC        |
| Service Bulletin | SB 4234                                                   | SB 4051                                           | SB 4227                                                  |

| MODELS AVAILABLE | DESCRIPTION                                      |
|------------------|--------------------------------------------------|
| 4120-003         | Low Profile Truck Drain for anti-freeze          |
| 4120-004         | Low Profile Truck Drain for oil                  |
| 4120-006         | Low Profile Truck Drain Bare                     |
| 4140-060         | Drain - Pit Boss with Quick Connect Kit 4140-061 |
| 4140-020         | Drain - Pit Boss Bare                            |

**Warning!** Not to be used with flammable fluids.

| CAM-LOCK COUPLER & NIPPLE RATED FOR 250 PSI (17 BAR) |                                |
|------------------------------------------------------|--------------------------------|
| Cam-Lock Coupler & Nipple                            | 4140-044 Coupler 3/4" NPT(F)   |
|                                                      | 4140-017 Coupler 1" NPT(F)     |
|                                                      | 4140-054 Nipple 3/4" NPT(F)    |
|                                                      | 4140-055 Nipple 1" NPT(F)      |
|                                                      | 4140-045 Nipple 3/4" NPT(M)    |
|                                                      | 4140-018 Nipple 1" NPT(M)      |
|                                                      | 4140-046 Dust Cap 3/4" NPT(F)  |
|                                                      | 4140-019 Dust Cap 1" NPT(F)    |
|                                                      | 4140-052 Dust Plug 3/4" NPT(M) |
|                                                      | 4140-053 Dust Plug 1" NPT(M)   |

| CAM-LOCK COUPLER & NIPPLE RATED FOR VACUUM OR UP TO 3,000 PSI (207 BAR) |                                                                                                                                                    |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Cam-Lock Kits                                                           | 4140-061 Cam-Lock Kit 1" for used oil for use with Pit Boss Bare 4140-020<br>Includes: Fluid Ball Valve, Cam-Lock nipple, Cap, and Hex nipple      |
|                                                                         | 4140-067 Cam-Lock Kit 3/4" for anti-freeze for use with Pit Boss Bare 4140-020<br>Includes: Fluid Ball Valve, Cam-Lock nipple, Cap, and Hex nipple |
| Hose Kit for used oil evacuation                                        | 4140-013 Hose Kit for used oil evacuation<br>Includes: 4140-017 - Cam-lock coupler 1", 8181-002X - Hose low pressure 2.5' x 1"                     |

# AODD Evacuation Packages

## CF50 Series Evacuation

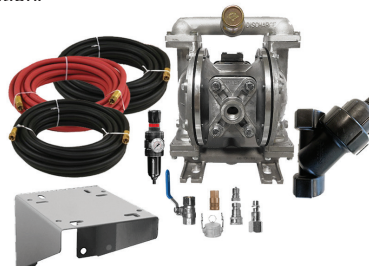
Evacuation system for used oil



| 1121-024<br>CF50 EVACUATION PACKAGE FOR USED OIL |                                        |
|--------------------------------------------------|----------------------------------------|
| <b>1120-037</b>                                  | Aluminum CF50 Diaphragm Pump           |
| <b>8134-005</b>                                  | LP Hose Assembly 5' x 3/8"             |
| <b>8281-005</b>                                  | MP Hose Assembly 5' x 1"               |
| <b>8182-005</b>                                  | LP Hose Assembly Suction Rated 5' x 1" |
| <b>4140-017</b>                                  | Cam-lock Coupler 1"                    |
| <b>4140-053</b>                                  | Cam-lock Dust Plug 1"                  |
| <b>3230-019</b>                                  | LP Air Ball Valve 3/8" NPT(F) no bleed |
| <b>3230-022</b>                                  | LP Air Ball Valve 1" NPT(F) no bleed   |
| <b>3260-035</b>                                  | F/R Auto Drain 3/8" NPT(F)             |
| <b>4411-036</b>                                  | Mounting Bracket for CF50 AODD Pumps   |
| <b>3120-219</b>                                  | Y-Strainer 1" NPT(F)                   |

## Conventional 1" UL Evacuation

Evacuation system for use when UL is specified. Package designed for used oil evacuation.



| 1121-026<br>UL SPECIFIED EVACUATION PACKAGE FOR USED OIL |                                        |
|----------------------------------------------------------|----------------------------------------|
| <b>1120-015S</b>                                         | 1" UL Aluminum AODD Pump               |
| <b>8134-005</b>                                          | LP Hose Assembly 5' x 3/8"             |
| <b>3260-035</b>                                          | F/R Auto Drain 3/8" NPT(F)             |
| <b>8281-005</b>                                          | MP Hose Assembly 5' x 1"               |
| <b>8182-005</b>                                          | LP Hose Assembly Suction Rated 5' x 1" |
| <b>3230-022</b>                                          | LP Air Ball Valve 1" NPT(F) no bleed   |
| <b>3230-019</b>                                          | LP Air Ball Valve 3/8" NPT(F) no bleed |
| <b>4140-017</b>                                          | Cam-lock Coupler 1"                    |
| <b>4140-053</b>                                          | Cam-lock Dust Plug 1"                  |
| <b>4411-016</b>                                          | Mounting Bracket for Diaphragm Pump    |
| <b>3120-219</b>                                          | Y-Strainer 1" NPT(F)                   |

## CF50 Series Evacuation

Evacuation system for anti-freeze disposal



| 1121-025<br>CF50 EVACUATION PACKAGE FOR USED ANTI-FREEZE |                                                  |
|----------------------------------------------------------|--------------------------------------------------|
| <b>1120-037</b>                                          | Buna/Hytrel® CF50 Diaphragm Pump                 |
| <b>8134-005</b>                                          | LP Hose Assembly 5' x 3/8"                       |
| <b>8264-005</b>                                          | Qty 2 - MP Hose Assembly Suction Rated 5' x 3/4" |
| <b>4140-044</b>                                          | Cam-lock Coupler 3/4"                            |
| <b>4140-052</b>                                          | Cam-lock Dust Plug 3/4"                          |
| <b>3230-019</b>                                          | LP Air Ball Valve 3/8" NPT(F) no bleed           |
| <b>3230-021</b>                                          | LP Air Ball Valve 3/4" NPT(F) no bleed           |
| <b>3260-035</b>                                          | F/R Auto Drain 3/8" NPT(F)                       |
| <b>4411-036</b>                                          | Mounting Bracket for CF50 AODD Pumps             |

**Warning!** Not to be used with flammable fluids.









## Accessory Evacuation for Oil & Anti-freeze- NO Pump



Does not include pump.

\*Pressure relief recommended. See pg. 172 for pressure relief kits.

| 4140-063*<br>EVACUATION PACKAGE FOR ANTI-FREEZE DESIGNED FOR THE CF30 |                                                  |
|-----------------------------------------------------------------------|--------------------------------------------------|
| INCLUDES                                                              |                                                  |
| <b>8134-005</b>                                                       | LP Hose Assembly 5' x 3/8"                       |
| <b>8264-005</b>                                                       | Qty 2 - MP Hose Assembly Suction Rated 5' x 3/4" |
| <b>4140-044</b>                                                       | Cam-lock Coupler 3/4"                            |
| <b>3230-019</b>                                                       | LP Air Ball Valve 3/8" NPT(F) no bleed           |
| <b>3230-021</b>                                                       | LP Air Ball Valve 3/4" NPT(F) no bleed           |
| <b>3260-035</b>                                                       | F/R Auto Drain 3/8" NPT(F)                       |
| <b>4411-025</b>                                                       | Mounting Bracket for AODD Pumps                  |

| Y-STRAINER - 580 PSI (40 BAR)<br>All strainers have 40 mesh                 |                                                                                     | CAM-LOCK COUPLER & NIPPLE RATED<br>for 250 psi (17 bar) |                        |                                                                                      |                                                                                                                    |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Y-Strainer                                                                  |    | 3120-211 1/2" NPT(F)                                    | Auto Shut-off Controls |    | 4520-023 Overfill pump control, auto shut-off, non-electric, sensing tube, pump controller                         |
|                                                                             |                                                                                     | 3120-212 3/4" NPT(F)                                    |                        |                                                                                      |                                                                                                                    |
|                                                                             |                                                                                     | 3120-213 1" NPT(F)                                      |                        |                                                                                      |                                                                                                                    |
| SUCTION LINE-STRAINER - 150 PSI (10 BAR)<br>All strainers have 20 mesh      |                                                                                     | PRESSURE RELIEF KITS                                    |                        |                                                                                      |                                                                                                                    |
| Suction Line-Strainer                                                       |    | 3120-219 1" NPT(F)                                      | Pressure Relief Kits   |    | 3120-232 Pressure Relief for Diaphragm 1/2" NPT 250 psi (17.2 bar) Includes: Valve, Tube 3' x 1/4" and 1/2" nipple |
|                                                                             |                                                                                     | 3120-125 Replacement screen for strainer 3120-219       |                        |                                                                                      | 3120-231 Pressure Relief for Diaphragm 1" NPT 150 psi (10.3 bar) Includes: Valve, Tube 3' x 1/4" and 1" nipple     |
| DRY BREAK COUPLER & NIPPLE RATED<br>For vacuum or up to 3,000 psi (207 bar) |                                                                                     | SUCTION TUBES                                           |                        |                                                                                      |                                                                                                                    |
| Dry Break Coupler & Nipple                                                  |    | 4140-016 Coupler 3/4" NPT(F)                            | Suction Tubes          |  | 4412-044 1" NPT(M) x 18" - 30° 16 gal drum                                                                         |
|                                                                             |                                                                                     | 4140-050 Coupler 1" NPT(F)                              |                        |                                                                                      | 4412-046 1" NPT(M) x 26" - 30° 55 gal drum                                                                         |
|                                                                             |                                                                                     | 4140-023 Nipple 3/4" NPT(F)                             |                        |                                                                                      | 4412-045 1" NPT(M) x 21" - 30° 165/280 gal bench tank                                                              |
|                                                                             |                                                                                     | 4140-051 Nipple 1" NPT(F)                               |                        |                                                                                      | 4412-048 1" NPT(M) x 30" - 30° 165/280 gal bench tank double tap                                                   |
| CAM-LOCK COUPLER & NIPPLE RATED<br>For 250 psi (17 bar)                     |                                                                                     | BRACKETS                                                |                        |                                                                                      |                                                                                                                    |
| Cam-Lock Coupler & Nipple                                                   |  | 4140-044 Coupler 3/4" NPT(F)                            | Wall-mount bracket     |  | 4411-016 Wall Mount Bracket for conventional diaphragm pumps                                                       |
|                                                                             |                                                                                     | 4140-017 Coupler 1" NPT(F)                              |                        |                                                                                      | 4411-025 Wall Mount Bracket for CF10, 15, & 30 diaphragm pumps                                                     |
|                                                                             |                                                                                     | 4140-054 Nipple 3/4" NPT(F)                             |                        |                                                                                      | 4411-036 Mounting Bracket for CF50 AODD Pumps                                                                      |
|                                                                             |                                                                                     | 4140-055 Nipple 1" NPT(F)                               |                        |                                                                                      |                                                                                                                    |
|                                                                             |                                                                                     | 4140-045 Nipple 3/4" NPT(M)                             |                        |                                                                                      |                                                                                                                    |
|                                                                             |                                                                                     | 4140-018 Nipple 1" NPT(M)                               |                        |                                                                                      |                                                                                                                    |
|                                                                             |                                                                                     | 4140-046 Dust Cap 3/4" NPT(F)                           |                        |                                                                                      |                                                                                                                    |
|                                                                             |                                                                                     | 4140-019 Dust Cap 1" NPT(F)                             |                        |                                                                                      |                                                                                                                    |
|                                                                             |                                                                                     | 4140-052 Dust Plug 3/4" NPT(M)                          |                        |                                                                                      |                                                                                                                    |
| 4140-053 Dust Plug 1" NPT(M)                                                |                                                                                     |                                                         |                        |                                                                                      |                                                                                                                    |



# SHOP SUPPLIES

|                                                                          |     |
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### Filter Regulators

Compressed Air Preparation Means Better System

#### Performance

Mini-series for low volume air applications

- Small, compact size
- In-line mounting using standard piping and nipples
- Effective filtration with automatic drain
- Accurate pressure regulation, precise lubrication
- Ideal for control of pumps for oil bars, spigot dispensers and reduced flow transfer pumps
- for pressures up to 150 psi (10 bar) and flows of 15 SCFM

#### Standard Series for Heavy Duty Lube Systems

- Heavy duty metal body and bowls
- Sight glasses standard on metal bowls for visible liquid levels
- Rated for air system pressures up to 250 psi (17.24 bar)
- Optional automatic drains available for filters
- Available as individual units or assembled
- In-line mounting using standard piping and nipples

### Standard Series

#### Filters

- Excellent water removal with 40-micron filter, large filter element surface
- Heavy duty zinc die cast body metal bowl with sight glass

#### Regulators

- Heavy duty zinc die cast body
- Pressure gauge standard

#### Lubricators

- Heavy duty zinc die cast body
- Metal bowl with sight glass
- Proportional oil delivery
- Precision needle valve
- Bowl can be filled while airline is under pressure
- Transparent sight dome for 360° visibility

#### 1-Piece Combo Units

- Excellent water removal efficiency, 40-micron filter
- Heavy duty zinc die cast body
- Metal bowl with sight glass
- Pressure gauge standard

### Mini Series

#### Filters

- Excellent water removal with 5-micron filter element
- Heavy duty zinc die cast body
- 0-250 psi (0-17.24 bar) Zinc die cast bowl

#### Regulators

- Heavy duty zinc die cast body
- Pressure gauge standard

#### Lubricators

- Heavy duty zinc die cast body
- Proportional oil delivery
- Precision needle valve
- Transparent sight dome for 360° visibility
- High strength polycarbonate bowl

| FRL ACCESSORIES |                                                                        |
|-----------------|------------------------------------------------------------------------|
| MODEL #         | DESCRIPTION                                                            |
| 3260-058        | Auto Drain Kit                                                         |
| 3261-005        | Air Gauge 0 -300 1/4" NPT(M)                                           |
| 3261-006        | Air Gauge 0 -160 1/8" NPT mini models only                             |
| 3261-015        | FRL 14 Series Lockout. Only fits mini filter regulator                 |
| 3261-007        | Mounting Bracket 1/4" mini models only                                 |
| 3261-008        | Mounting Bracket - Filter Regulators or Lubricators 1/4", 1/2", 3/8"   |
| 3261-009        | Mounting Bracket - Filter, Regulators, or Lubricators 3/8", 1/2", 3/4" |
| 3261-010        | Mounting Bracket - 2 or 3 Unit Combos 1/4", 3/8", 1/2"                 |
| 3261-011        | Mounting Bracket - 2 or 3 Unit Combos 3/8", 1/2", 3/4"                 |
| 3261-013        | Mounting Bracket 1/2" Water Separator                                  |
| 3261-014        | Mounting Bracket 3/4" Water Separator                                  |



### Liquid Separator

Liquid Separator removes bulk liquid at all points within the compressed air system. Protecting filters by providing high liquid removal efficiencies under all flow conditions.

| RECOMMENDED FRL SIZING |                    |
|------------------------|--------------------|
| MAX. SCFM              | CHOOSE SERIES      |
| 15                     | 1/4" NPT(F) (mini) |
| 40                     | 1/4" NPT(F)        |
| 60                     | 3/8" NPT(F)        |
| 90                     | 1/2" NPT(F)        |
| 100                    | 3/4" NPT(F)        |

| MODEL #  | TECHNICAL DATA          | DRAIN | MOUNTING BRACKET |
|----------|-------------------------|-------|------------------|
| 3260-067 | 1/2" NPT(F)<br>85 SCFM  | Auto  | 3261-013         |
| 3260-068 | 3/4" NPT(F)<br>233 SCFM | Auto  | 3261-014         |
| 3260-069 | 1" NPT(F)<br>233 SCFM   | Auto  | 3261-014         |

8



### 1-piece Piggy Back Filter / Regulator

Best choice for pump air control. Filter prolongs wear life of pump, automatic drain removes moisture, regulator adjusts pump air supply pressure for best performance.



### 2-piece Piggy Back FRL Units

Air line filter and regulator with gauge allow for maximum air flow. Provides efficient water and particle removal and features an easy to read water level indicator.



### 3-piece FRL Units

Full air line control and conditioning for pump operation. Select from 1/4" through 3/4" and miniature sizes. Manual drain. (Automatic or mini).

| F/R Minis for pressures up to 150 psi (10 bar) and flows of 15 SCFM       |                             |        |                  |          |                             |       |                      |          |                  |        |                      |
|---------------------------------------------------------------------------|-----------------------------|--------|------------------|----------|-----------------------------|-------|----------------------|----------|------------------|--------|----------------------|
| F/R standard for pressures up to 250 psi (17.24 bar) and flows of 25 SCFM |                             |        |                  |          |                             |       |                      |          |                  |        |                      |
| MODEL #                                                                   | TECHNICAL DATA              | DRAIN  | MOUNTING BRACKET | MODEL #  | TECHNICAL DATA              | DRAIN | MOUNTING BRACKET     | MODEL #  | TECHNICAL DATA   | DRAIN  | MOUNTING BRACKET     |
| 3260-060                                                                  | 1/4" NPT(F) mini, poly bowl | Auto   | 3261-007         | 3260-059 | 1/4" NPT(F) mini, poly bowl | Auto  | 3261-007             | 3260-053 | 1/4" NPT(F) mini | Auto   | 3261-007             |
| 3260-033                                                                  | 1/4" NPT(F) mini, zinc bowl | Auto   | 3261-007         | 3260-048 | 1/4" NPT(F) mini, zinc bowl | Auto  | 3261-007             | 3260-054 | 1/4" NPT(F)      | Manual | 3261-010 or 3261-008 |
| 3260-065                                                                  | 1/4" NPT(F) mini, zinc bowl | Manual | 3261-007         | 3260-049 | 1/4" NPT(F)                 | Auto  | 3261-010 or 3261-008 | 3260-055 | 3/8" NPT(F)      | Manual | 3261-010 or 3261-008 |
| 3260-066                                                                  | 1/4" NPT(F) mini, poly bowl | Manual | 3261-007         | 3260-050 | 3/8" NPT(F)                 | Auto  | 3261-010 or 3261-008 | 3260-056 | 1/2" NPT(F)      | Manual | 3261-010 or 3261-008 |
| 3260-034                                                                  | 1/4" NPT(F)                 | Auto   | 3261-010         | 3260-051 | 1/2" NPT(F)                 | Auto  | 3261-010 or 3261-008 | 3260-057 | 3/4" NPT(F)      | Manual | 3261-011 or 3261-009 |
| 3260-035                                                                  | 3/8" NPT(F)                 | Auto   | 3261-010         |          |                             |       |                      |          |                  |        |                      |
| 3260-036                                                                  | 1/2" NPT(F)                 | Auto   | 3261-010         |          |                             |       |                      |          |                  |        |                      |
| 3260-037                                                                  | 3/4" NPT(F)                 | Auto   | 3261-011         |          |                             |       |                      |          |                  |        |                      |



### Air Line Filter

Use air filters to remove moisture and particulate solids from air supply lines. Manual drain. (Automatic or mini).



### Air Regulators

Use air regulators to individually adjust supply pressure to air-operated pumps. Includes gauge.



### Air Line Lubricators

Full air line control and conditioning for pump operation. Manual drain (Automatic or mini).












| MODEL #  | TECHNICAL DATA   | DRAIN  | MOUNTING BRACKET |
|----------|------------------|--------|------------------|
| 3260-038 | 1/4" NPT(F) mini | Auto   | 3261-008         |
| 3260-040 | 3/8" NPT(F)      | Manual | 3261-008         |
| 3260-041 | 1/2" NPT(F)      | Manual | 3261-008         |
| 3260-042 | 3/4" NPT(F)      | Manual | 3261-008         |
| 3260-061 | 1" NPT(F)        | Manual | -                |

| MODEL #  | TECHNICAL DATA   | DRAIN | MOUNTING BRACKET |
|----------|------------------|-------|------------------|
| 3260-028 | 1/4" NPT(F) mini | -     | 3261-007         |
| 3260-030 | 3/8" NPT(F)      | -     | 3261-010         |
| 3260-031 | 1/2" NPT(F)      | -     | 3261-010         |

| MODEL #  | TECHNICAL DATA              | DRAIN | MOUNTING BRACKET |
|----------|-----------------------------|-------|------------------|
| 3260-043 | 1/4" NPT(F) mini, poly bowl | -     | N/A              |

# Accessories & Supplies

## Fillers, Measures, and Funnels

|                      |                                                                                              | MODEL #         | DESCRIPTION                          | FEATURES                                                                         |
|----------------------|----------------------------------------------------------------------------------------------|-----------------|--------------------------------------|----------------------------------------------------------------------------------|
| Fillers and bottles  |             | <b>6110-017</b> | Battery Filler                       | 2 1/4" capacity<br>Bronze plastic finish                                         |
|                      |             | <b>6111-002</b> | Replacement Spout for Battery Filler | Black plastic                                                                    |
|                      |             | <b>6110-010</b> | Radiator Filler                      | 12 qt. capacity<br>Black plastic                                                 |
| Funnels and measures |  6110-025   | <b>6110-025</b> | Measure with spout                   | 1 qt. (1 l), plastic<br>Molded in high density polyethylene with flexible spout  |
|                      |  6110-026  | <b>6110-026</b> | Measure with spout                   | 2 qt. (2 l), plastic<br>Molded in high density polyethylene with flexible spout  |
|                      |  6110-027 | <b>6110-027</b> | Measure with spout                   | 3 qt. (3 l), plastic<br>Molded in high density polyethylene with flexible spout  |
|                      |  6110-028 | <b>6110-028</b> | Measure with spout                   | 5 qt. (5 l), plastic<br>Molded in high density polyethylene with flexible spout  |
|                      |  6111-003 | <b>6111-003</b> | Spout, small                         | For use with measures 6110-025, 6110-026, 6110-028, and funnel 6210-027, plastic |
|                      |  6111-004 | <b>6111-004</b> | Spout, large                         | For use with measures 6110-028 and funnel 6210-028                               |
|                      |  6111-009 | <b>6111-009</b> | Cap, large                           | Cover for measure 6110-028, plastic                                              |
|                      |  6210-027 | <b>6210-027</b> | Funnel w/ spout                      | Plastic<br>7.5" (190 mm) diameter. 0.5 gal capacity                              |

## Pump Runaway Control



| MODEL #  | TECHNICAL DATA               |                      |
|----------|------------------------------|----------------------|
| 3241-003 | 1/2" NPT(F)                  | Pump Runaway Control |
| 3241-004 | Pump Runaway Control Bracket |                      |

## 4-Way Reversing Valve



| MODEL #  | DESCRIPTION                                                       |
|----------|-------------------------------------------------------------------|
| 3230-014 | 4-Way reversing valve<br>1" NPT(F)<br>Pressure 200 psi (13.8 bar) |

## Inlet Check Valve - Poly



| MODEL #  | DESCRIPTION                                                            |
|----------|------------------------------------------------------------------------|
| 4411-029 | Inlet Check Valve - Poly 3/4" NPT.<br>Not for petroleum based products |
| 4411-026 | Inlet Check Valve - Poly 1" NPT.<br>Not for petroleum based products   |

## Inlet Check Valve - Alum



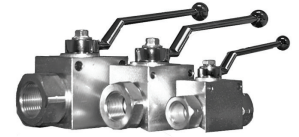
| MODEL #  | DESCRIPTION                   |
|----------|-------------------------------|
| 4411-014 | Inlet Check Valve 3/4" NPT(F) |
| 4411-015 | Inlet Check Valve 1" NPT(F)   |

## Shut-off Valve Bleed Type for Air



| MODEL #  | DESCRIPTION                                     |
|----------|-------------------------------------------------|
| 3230-009 | Shut-off Valve, 3/8" NPT(F), 200 psi (13.7 bar) |
| 3230-010 | Shut-off Valve, 1/2" NPT(F), 200 psi (13.7 bar) |
| 3230-011 | Shut-off Valve, 3/4" NPT(F), 200 psi (13.7 bar) |

## Ball Valve - Fully Ported for Grease



| MODEL #  | DESCRIPTION                         |
|----------|-------------------------------------|
| 3230-023 | Ball Valve, 3/8" 7250 psi (500 bar) |
| 3230-015 | Ball Valve, 1/2" 7250 psi (500 bar) |
| 3230-016 | Ball Valve, 3/4" 5800 psi (400 bar) |
| 3230-017 | Ball Valve, 1" 5075 psi (350 bar)   |

## Ball Valve - Fully Ported for Air/Oil



| MODEL #  | DESCRIPTION                           |
|----------|---------------------------------------|
| 3230-006 | Ball valve, 3/8", 2,000 psi (138 bar) |
| 3230-002 | Ball valve, 1/2", 2,000 psi (138 bar) |
| 3230-007 | Ball valve, 3/4", 2,000 psi (138 bar) |
| 3230-018 | Ball Valve, 1/4", 580 psi (40 bar)    |
| 3230-019 | Ball Valve, 3/8", 580 psi (40 bar)    |
| 3230-020 | Ball Valve, 1/2", 580 psi (40 bar)    |
| 3230-021 | Ball Valve, 3/4", 580 psi (40 bar)    |
| 3230-022 | Ball Valve, 1", 580 psi (40 bar)      |

## Shut-off Valve Needle Fully Ported for Grease



| MODEL #  | DESCRIPTION                                                 |
|----------|-------------------------------------------------------------|
| 3230-012 | Shut-off Valve, 3/4" NPT(F) 10,000 psi (689 bar)            |
| 3230-001 | Shut-off Valve, 1/2" NPT(F) Both ends, 10,000 psi (689 bar) |
| 3230-013 | Shut-off Valve, 1" NPT(F) 10,000 psi (689 bar)              |

# Accessories & Supplies

## Pressurized Oil Dispenser & Hand Pumps



| MODEL #         | DESCRIPTION                        |
|-----------------|------------------------------------|
| <b>1200-022</b> | Pressurized Dispenser, Metered     |
| <b>1200-023</b> | Pressurized Dispenser, Non-metered |

### FEATURES & TECHNICAL DATA

Fluids:  
Synthetic and mineral based lubricants  
Gear Oil  
Transmission fluid  
Hydraulic Fluid

Max pressure is 116 psi (8 bar)  
Includes 6.5 gal tank, sight gauge, 5' clear dispensing hose.  
The metered version comes with the 3330-159 DR Control handle. The non-metered version comes with the 3320-026 Flex Auto handle.



| MODEL #         | DESCRIPTION                                  |
|-----------------|----------------------------------------------|
| <b>1300-017</b> | Mobile Hand pump Non-metered Lube for 16 gal |

Includes Dispense hose 6'  
Dolly base 4310-001

### TECHNICAL DATA

|                  |                           |
|------------------|---------------------------|
| Pressure         | 600 psi (41.4 bar)        |
| Stroke per gal   | 6                         |
| Wetted Materials | Steel, Brass, and Buna-N™ |
| SB 1016          |                           |



| MODEL #         | DESCRIPTION                              |
|-----------------|------------------------------------------|
| <b>1300-018</b> | Mobile Hand pump Metered Lube for 16 gal |

Includes Dispense hose 6'  
In-line meter 3120-091  
Dolly base 4310-001

### TECHNICAL DATA

|                  |                           |
|------------------|---------------------------|
| Pressure         | 600 psi (41.4 bar)        |
| Stroke per gal   | 6                         |
| Wetted Materials | Steel, Brass, and Buna-N™ |
| SB 1016          |                           |



| MODEL #         | DESCRIPTION                           |
|-----------------|---------------------------------------|
| <b>1300-010</b> | Hand pump Non-metered Lube for 16 gal |

Includes Dispense hose 6'

### TECHNICAL DATA

|                  |                           |
|------------------|---------------------------|
| Pressure         | 600 psi (41.4 bar)        |
| Stroke per gal   | 6                         |
| Wetted Materials | Steel, Brass, and Buna-N™ |
| SB 1016          |                           |



| MODEL #         | DESCRIPTION                       |
|-----------------|-----------------------------------|
| <b>1300-011</b> | Hand pump Metered Lube for 16 gal |

Includes Dispense hose 6'  
In-line meter 3120-091

### TECHNICAL DATA

|                  |                           |
|------------------|---------------------------|
| Pressure         | 600 psi (41.4 bar)        |
| Stroke per gal   | 6                         |
| Wetted Materials | Steel, Brass, and Buna-N™ |
| SB 1016          |                           |



| MODEL #         | DESCRIPTION                      |
|-----------------|----------------------------------|
| <b>1300-021</b> | Piston Hand Pump for 5 gal pails |

Includes Dispense hose 4'

### TECHNICAL DATA

|                  |                              |
|------------------|------------------------------|
| Pressure         | Check Ball kit               |
| Stroke per gal   | 6                            |
| Wetted Materials | Steel, Aluminum, and Buna-N™ |
| SB 1083          |                              |

# Accessories & Supplies Hand Pumps



| MODEL #          | DESCRIPTION                             |
|------------------|-----------------------------------------|
| <b>1300-001</b>  | Hand pump, Heavy Duty for 16 and 55 gal |
| TECHNICAL DATA   |                                         |
| Pressure         | 6,000 psi (417 bar)                     |
| Stroke per gal   | 16 (1 per lb)                           |
| Wetted Materials | Steel, Brass                            |
| SB 1054          |                                         |



| MODEL #          | DESCRIPTION                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------|
| <b>1300-019</b>  | Piston Hand pump 5 & 55 gal drums or tanks                                                              |
| Includes         | Bung Adapter 2"                                                                                         |
| TECHNICAL DATA   |                                                                                                         |
| Pressure         | Hand operated                                                                                           |
| Stroke per gal   | 12                                                                                                      |
| Fluids           | for diesel, Lubricants, hydraulic oils, gear oils, anti-freeze, degreasers, and windshield washer fluid |
| Wetted Materials | Polypropylene and Viton™                                                                                |
| SB 1149          |                                                                                                         |



| MODEL #          | DESCRIPTION                                                                    |
|------------------|--------------------------------------------------------------------------------|
| <b>1300-022</b>  | Hand pump High Flow Rotary for 16 & 55 gal drums or tanks                      |
| Includes         | Bung Adapter 2"                                                                |
| TECHNICAL DATA   |                                                                                |
| Pressure         | Hand operated                                                                  |
| Stroke per gal   | 1 per revolution                                                               |
| Fluids           | for non-corrosive lubricants, diesel, lubricants, hydraulic oils and gear oils |
| Wetted Materials | Cast iron, Steel, and Buna-N™                                                  |
| SB 1100          |                                                                                |



| MODEL #          | DESCRIPTION                                                                  |
|------------------|------------------------------------------------------------------------------|
| <b>1300-033</b>  | Hand pump High Flow Rotary PVC action drum pump for 16 & 55 gal drum or tank |
| Includes         | Bung Adapter 2"                                                              |
| TECHNICAL DATA   |                                                                              |
| Pressure         | Hand operated                                                                |
| Stroke per gal   | .7 per revolution                                                            |
| Fluids           | for acid-based corrosive fluids and water based fluids from 16, 55 gal drums |
| Wetted Materials | PVC and Steel                                                                |
| SB 1150          |                                                                              |



| MODEL #          | DESCRIPTION                                                          |
|------------------|----------------------------------------------------------------------|
| <b>1300-037</b>  | Hand Pump, 5-16 gal drums. Poly lift pump for solvents and chemicals |
| <b>1300-038</b>  | Hand Pump, 55 gal drums. Poly lift pump for solvents and chemicals   |
| TECHNICAL DATA   |                                                                      |
| Pressure         | Hand operated                                                        |
| Fluids           | for solvents and chemicals                                           |
| Wetted Materials | Nylon and PTFE                                                       |



| MODEL #          | DESCRIPTION                                                                       |
|------------------|-----------------------------------------------------------------------------------|
| <b>1300-039</b>  | Hand Pump, 55 gal drums. 316 stainless steel lift pump for solvents and chemicals |
| TECHNICAL DATA   |                                                                                   |
| Pressure         | Hand operated                                                                     |
| Stroke per qt    | 0.86                                                                              |
| Fluids           | for solvents and chemicals                                                        |
| Wetted Materials | Stainless Steel and PTFE                                                          |

# Accessories & Supplies

## Hand Pumps & Grease Guns



| MODEL #          | DESCRIPTION                                                       |
|------------------|-------------------------------------------------------------------|
| <b>1300-030</b>  | Hand Pump, siphon, drums                                          |
| <b>1300-029</b>  | Hand Pump, siphon, pails                                          |
| TECHNICAL DATA   |                                                                   |
| Pressure         | Hand operated                                                     |
| Fluids           | for solvents, acetate, toluene, xylene, acids, chlorinated fluids |
| Wetted Materials | Polyethylene, PVC                                                 |

| MODEL #                                                                                                                                                                                                                                  | DESCRIPTION                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>5200-016</b>                                                                                                                                                                                                                          | Professional Series Grease Gun |
| FEATURES & TECHNICAL DATA                                                                                                                                                                                                                |                                |
| <ul style="list-style-type: none"> <li>• 14 oz capacity</li> <li>• Variable stroke operation</li> <li>• Filler nipple and bleeder valve</li> <li>• Up to 10,000 psi max. pressure</li> <li>• Includes outlet pipe and coupler</li> </ul> |                                |



| MODEL #                                                                                                                                                                           | DESCRIPTION            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>5200-006</b>                                                                                                                                                                   | Lever Style Grease Gun |
| FEATURES & TECHNICAL DATA                                                                                                                                                         |                        |
| <ul style="list-style-type: none"> <li>• 14 oz capacity</li> <li>• Filler nipple</li> <li>• Up to 10,000 psi max. pressure</li> <li>• Includes outlet pipe and coupler</li> </ul> |                        |

| MODEL #                                                                                                                                                                                                        | DESCRIPTION             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>5200-014</b>                                                                                                                                                                                                | Pistol Style Grease Gun |
| FEATURES & TECHNICAL DATA                                                                                                                                                                                      |                         |
| <ul style="list-style-type: none"> <li>• 14 oz capacity</li> <li>• Filler nipple</li> <li>• One hand operation</li> <li>• Up to 5,000 psi max. pressure</li> <li>• Includes outlet pipe and coupler</li> </ul> |                         |

8

# Accessories & Supplies

## Grease Guns & Cordless Grease Gun



| MODEL #         | DESCRIPTION     |
|-----------------|-----------------|
| <b>5200-013</b> | Mini Grease Gun |

### FEATURES & TECHNICAL DATA

- Short stroke grip action for easy use
- Heavy duty professional grade construction
- Three way filling

Includes air vent and filler plug  
 • 9" Whip hose, hose and straight spout with coupler



| MODEL #         | DESCRIPTION |
|-----------------|-------------|
| <b>1300-026</b> | Suction Gun |

### FEATURES & TECHNICAL DATA

- for all purpose draining and filling
- No need for priming
- 11" flexible hose included



| MODEL #         | DESCRIPTION             |
|-----------------|-------------------------|
| <b>5200-025</b> | Air Operated Grease Gun |

### TECHNICAL DATA

|                   |                  |
|-------------------|------------------|
| Maximum Pressure  | 146 psi (10 bar) |
| Minimum Pressure  | 44 psi (3 bar)   |
| Swivel inlet      | 1/4" NPT (F)     |
| Weight            | 5.6 lb (2.5 kg)  |
| Compatible fluids | NLGI-2 Grease    |

SB 5004



| MODEL #         | DESCRIPTION                 |
|-----------------|-----------------------------|
| <b>5200-015</b> | Battery Operated Grease Gun |
| <b>8390-004</b> | 42" Hose Whip for 5200-015  |

### FEATURES & TECHNICAL DATA

- Includes:
- Carrying case with shoulder strap
  - 42" whip hose with coupler
  - Bend restrictors on hose
  - Two 18 V Li-Ion batteries
  - 1 hour quick charger

Specifications:  
 • Pump has the capability of developing 9,500 psi maximum fluid pressure.



| MODEL #                                                                                                                                                                                                                                                                                                        | DESCRIPTION        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1300-031                                                                                                                                                                                                                                                                                                       | Grease Bucket Pump |
| FEATURES & TECHNICAL DATA                                                                                                                                                                                                                                                                                      |                    |
| <ul style="list-style-type: none"> <li>• 35 lb oval shape steel bucket with carrying handle and foot rest</li> <li>• Delivery per stroke: 0.7, 0.5 or 0.35 oz., depending on the lever selected.</li> <li>• Up to 5,000 psi maximum fluid pressure.</li> <li>• Includes 7' grease hose with coupler</li> </ul> |                    |
| SB 1146                                                                                                                                                                                                                                                                                                        |                    |



| MODEL #                                                                                                                                                                                                                              | DESCRIPTION          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1300-036                                                                                                                                                                                                                             | Gear Oil Bucket Pump |
| FEATURES & TECHNICAL DATA                                                                                                                                                                                                            |                      |
| <ul style="list-style-type: none"> <li>• 4 gal. oval shape steel bucket with carrying handle and foot rest</li> <li>• 5' rubber delivery hose with angled nozzle</li> <li>• Lever action pump, delivers 100 cc per stroke</li> </ul> |                      |
| SB 1148                                                                                                                                                                                                                              |                      |



| MODEL #          | DESCRIPTION                                           |
|------------------|-------------------------------------------------------|
| 1300-009         | Grease Hand pump<br>Non-metered for<br>25-35 lb/5 gal |
| Includes         | Dispense hose 5'                                      |
| TECHNICAL DATA   |                                                       |
| Pressure         | 5,500 psi (379 bar)                                   |
| Stroke per lb    | 6                                                     |
| Wetted Materials | Steel, Brass, and Buna-N™                             |
| SB 1018          |                                                       |



| MODEL #                                                                                                                                                                                                                                                                                                         | DESCRIPTION               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 1300-032                                                                                                                                                                                                                                                                                                        | High Pressure Grease Pump |
| FEATURES & TECHNICAL DATA                                                                                                                                                                                                                                                                                       |                           |
| <ul style="list-style-type: none"> <li>• for use with 35 lb grease pails</li> <li>• Includes follower disc and cover with height adjustable bung adapter</li> <li>• 5' high pressure grease hose with coupler</li> <li>• All metal high pressure grease pump, up to 5,000 psi maximum fluid pressure</li> </ul> |                           |



| MODEL #                                                                                                                                                                                                                                                                                                                                                              | DESCRIPTION                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1300-034                                                                                                                                                                                                                                                                                                                                                             | Filler Pump for 35 lb pails |
| 1300-035                                                                                                                                                                                                                                                                                                                                                             | Filler Pump for 120 lb kegs |
| FEATURES & TECHNICAL DATA                                                                                                                                                                                                                                                                                                                                            |                             |
| <p>for fast, clean and efficient filling of side lever, one hand, air operated and cordless grease guns equipped with a filler nipple.</p> <ul style="list-style-type: none"> <li>• Includes pump with filler valve, cover and follower plate for 35 lb grease pails</li> <li>• Includes pump with filler valve, cover and follower plate for 120 lb kegs</li> </ul> |                             |

**Filler fittings, couplers and adapters**



**5310-033**  
 Filler fitting standard  
 1/8"NPT(M)



**5310-030**  
 Needle nose adapter, 1/8"  
 NPT(F)



**5310-024**  
 Grease coupler 4-Jaws,  
 1/8" NPT(F)



**5310-027**  
 Lock sleeve, 1/8"NPT(M)



**5310-037**  
 Rubber tip seal-off  
 with lock sleeve 1/8"  
 NPT(F)



**5310-026**  
 Giant button-head  
 coupler,  
 1/8" NPT(F)



**5310-029**  
 Threaded swivel  
 adapter, 1/8" NPT(F)



**5310-031**  
 Needle nose adapter with  
 lock sleeve, 1/8" NPT(F)



**5200-017**  
 Quick Lock grease coupler  
 1/8" NPT(F)



**5310-035**  
 Lock sleeve,  
 1/8"NPT(F)



**5310-028**  
 Rubber tip seal-off  
 adapter, 1/8" NPT(F)



**5310-025**  
 Standard buttonhead  
 coupler, 1/8" NPT(F)



**5310-036**  
 90° adapter, coupler and  
 lock sleeve, 1/8"NPT(F)



**5310-034**  
 Air bleeder valve  
 1/8"NPT(M)



**5400-003**  
 Bearing Packer



**5310-018**  
 Z-Swivel 1/4" NPT(F)  
 x 1/4" NPT(M)



**5310-032**  
 Rigid flex adapter with hydraulic coupler, 1/8" NPT(F)

**Grease outlet hoses for hand and air operated equipment**

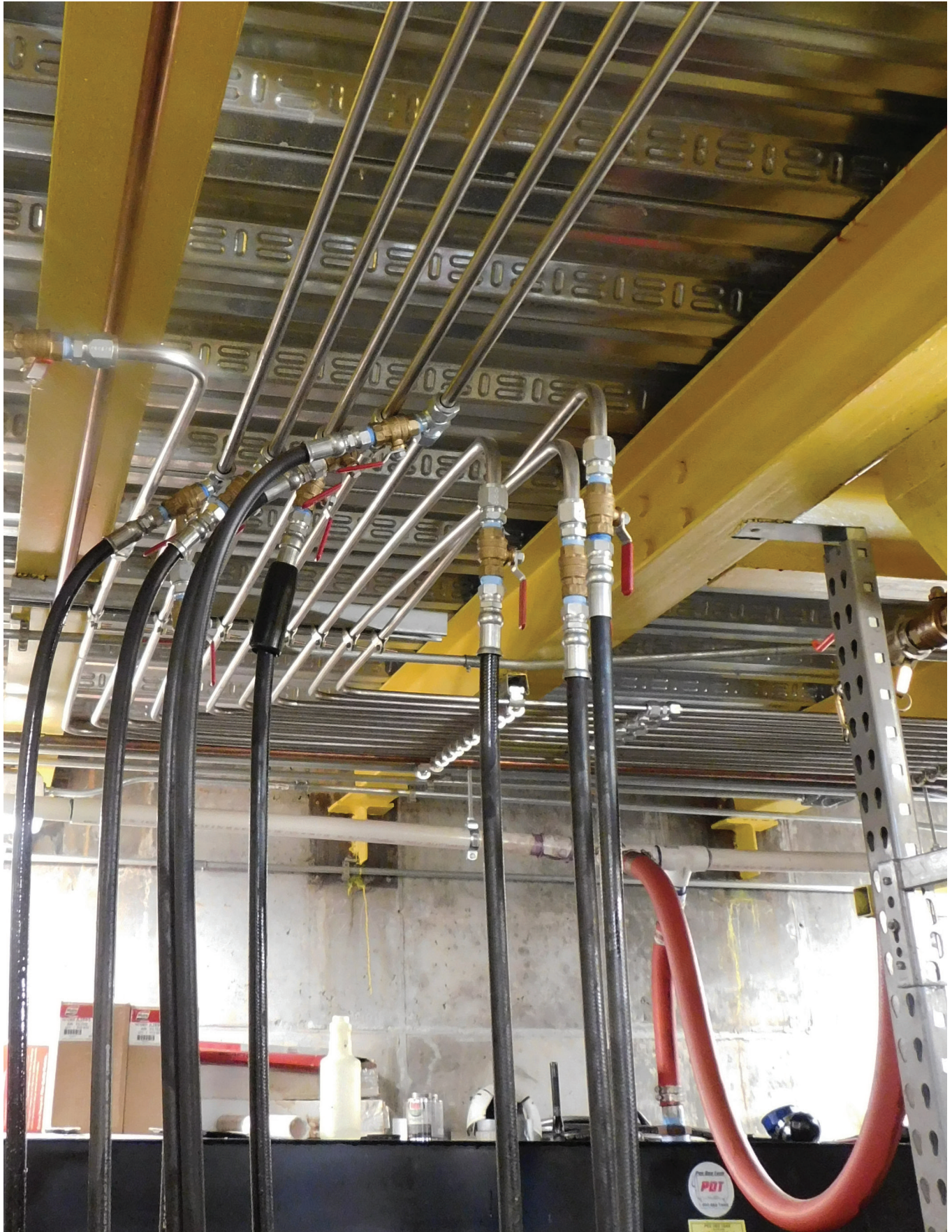


**8390-002** 18" Whip Hose HP

**8390-003** 36" Whip Hose HP

**8390-004** 42" Whip hose HP

Max. pressure 5,000 psi (345 bar)  
 Hose end 1/8" NPT(M) on both ends  
 Compatible fluid NLGI-2 Grease  
 Flexible Extension



Fittings & Piping Installation



# INSTALLATIONS ACCESSORIES

Fittings ..... 186

## Fittings

### ADAPTERS



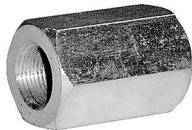
| MODEL    | NPT(M X M)  | TECHNICAL DATA              |
|----------|-------------|-----------------------------|
| 3270-033 | 1/2" x 1/2" | Brass 3,400 psi (234.4 bar) |
| MODEL    | NPT(F X M)  | TECHNICAL DATA              |
| 3270-007 | 1/8" x 1/2" | Brass 1,000 psi (68.9 bar)  |
| 3270-078 | 3/8" x 1/4" | Steel 3,000 psi (207 bar)   |
| 3270-082 | 3/8" x 3/8" | Steel 3,000 psi (207 bar)   |
| 3270-021 | 1/2" x 1/4" | Steel 3,000 psi (207 bar)   |
| 3270-081 | 1/2" x 3/4" | Steel 3,000 psi (207 bar)   |

### BUSHINGS - STANDARD & REDUCING



| MODEL    | NPT(M X F)  | TECHNICAL DATA            |
|----------|-------------|---------------------------|
| 3270-076 | 1/4" x 1/2" | Steel 3,000 psi (207 bar) |
| 3270-071 | 3/8" x 1/4" | Steel 3,000 psi (207 bar) |
| 3270-077 | 3/8" x 3/8" | Steel 3,000 psi (207 bar) |
| 3270-016 | 1/2" x 1/4" | Steel 3,000 psi (207 bar) |
| 3270-052 | 1/2" x 3/8" | Steel 3,000 psi (207 bar) |
| 3270-075 | 1/2" x 1/2" | Steel 3,000 psi (207 bar) |
| 3270-070 | 1/2" x 3/4" | Steel 3,000 psi (207 bar) |
| 3270-072 | 3/4" x 1/4" | Steel 3,000 psi (207 bar) |
| 3270-074 | 3/4" x 3/8" | Steel 3,000 psi (207 bar) |
| 3270-053 | 3/4" x 1/2" | Steel 3,000 psi (207 bar) |
| 3270-073 | 1" x 1/2"   | Steel 3,000 psi (207 bar) |
| 3270-054 | 1" x 3/4"   | Steel 3,000 psi (207 bar) |

### COUPLERS - STANDARD



| MODEL    | NPT(M X F)  | TECHNICAL DATA            |
|----------|-------------|---------------------------|
| 3270-084 | 1/4" x 1/4" | Steel 3,000 psi (207 bar) |
| 3270-085 | 3/8" x 3/8" | Steel 3,000 psi (207 bar) |
| 3270-086 | 1/2" x 1/2" | Steel 3,000 psi (207 bar) |
| 3270-087 | 3/4" x 3/4" | Steel 3,000 psi (207 bar) |
| 3270-088 | 1" x 1"     | Steel 3,000 psi (207 bar) |

### HEX NIPPLES STANDARD & REDUCING



| MODEL    | NPT(M X M)          | TECHNICAL DATA              |
|----------|---------------------|-----------------------------|
| 3270-009 | 1/8" JIC 37° x 1/8" | Steel 4,000 psi (275.6 bar) |
| 3270-089 | 1/4" x 1/8"         | Steel 3,000 psi (207 bar)   |
| 3270-041 | 1/4" x 1/4"         | Brass 1,200 psi (82.3 bar)  |
| 3270-093 | 3/8" x 1/8"         | Steel 3,000 psi (207 bar)   |
| 3270-090 | 3/8" x 1/4"         | Steel 3,000 psi (207 bar)   |
| 3270-042 | 3/8" x 3/8"         | Brass 1,000 psi (68.9 bar)  |
| 3270-094 | 1/2" x 1/4"         | Steel 3,000 psi (207 bar)   |

| HEX NIPPLES STANDARD & REDUCING                                                     |          |                 |                                  |
|-------------------------------------------------------------------------------------|----------|-----------------|----------------------------------|
|    | MODEL    | NPT(M X M)      | TECHNICAL DATA                   |
|                                                                                     | 3270-091 | 1/2" x 3/8"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-043 | 1/2" x 1/2"     | Brass 1,000 psi (68.9 bar)       |
|                                                                                     | 3270-095 | 3/4" x 3/8"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-092 | 3/4" x 1/2"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-044 | 3/4" x 3/4"     | Brass 1,000 psi (68.9 bar)       |
|                                                                                     | 3270-096 | 1" x 3/4"       | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-045 | 1" x 1"         | Steel 3,000 psi (207 bar)        |
| SQUARE HEADED PLUG                                                                  |          |                 |                                  |
|    | MODEL    | NPT(M)          | TECHNICAL DATA                   |
|                                                                                     | 3270-150 | 1/8"            | Black Iron 2,000 psi (137.8 bar) |
|                                                                                     | 3270-151 | 1/4"            | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-152 | 3/8"            | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-153 | 1/2"            | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-154 | 3/4"            | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-155 | 1"              | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-156 | 2"              | Steel 3,000 psi (207 bar)        |
| STREET ELBOW                                                                        |          |                 |                                  |
|   | MODEL    | NPT(F X M)      | TECHNICAL DATA                   |
|                                                                                     | 3270-157 | 1/4" x 1/4"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-083 | 3/8" x 3/8"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-158 | 1/2" x 1/2"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-159 | 3/4" x 3/4"     | Steel 3,000 psi (207 bar)        |
| SWIVEL UNIONS 45°                                                                   |          |                 |                                  |
|  | MODEL    | NPT(M) X NPS(F) | TECHNICAL DATA                   |
|                                                                                     | 3270-066 | 1/2" x 1/2"     | Steel 3,500 psi (241.3 bar)      |
|                                                                                     | 3270-062 | 3/4" x 3/4"     | Steel 2,000 psi (137.8 bar)      |
|                                                                                     | 3270-061 | 1" x 1"         | Steel 2,000 psi (137.8 bar)      |
| SWIVEL UNIONS RIGID                                                                 |          |                 |                                  |
|  | MODEL    | NPT(M) X NPS(F) | TECHNICAL DATA                   |
|                                                                                     | 3270-097 | 1/8" x 1/4"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-025 | 1/4" x 1/4"     | Steel 5,000 psi (344.7 bar)      |
|                                                                                     | 3270-098 | 1/4" x 3/8"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-050 | 3/8" x 3/8"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-046 | 3/8" x 1/2"     | Steel 3,000 psi (207 bar)        |
|                                                                                     | 3270-028 | 1/2" x 3/8"     | Steel 3,000 psi (207 bar)        |

## SWIVEL UNIONS RIGID



| MODEL    | NPT(M) X NPS(F) | TECHNICAL DATA              |
|----------|-----------------|-----------------------------|
| 3270-027 | 1/2" x 1/2"     | Steel 3,000 psi (207 bar)   |
| 3270-047 | 1/2" x 3/4"     | Steel 2,250 psi (172.4 bar) |
| 3270-099 | 3/4" x 3/4"     | Steel 3,000 psi (207 bar)   |
| 3270-100 | 3/4" x 1/2"     | Steel 3,000 psi (207 bar)   |
| 3270-101 | 3/4" x 1"       | Steel 3,000 psi (207 bar)   |
| 3270-048 | 1" x 3/4"       | Steel 2,000 psi (137.8 bar) |
| 3270-102 | 1" x 1"         | Steel 3,000 psi (207 bar)   |
| MODEL    | NPT(F) X NPS(F) | TECHNICAL DATA              |
| 3270-103 | 1/4" x 1/4"     | Steel 3,000 psi (207 bar)   |
| 3270-106 | 3/8" x 1/4"     | Steel 3,000 psi (207 bar)   |
| 3270-109 | 3/8" x 3/8"     | Steel 3,000 psi (207 bar)   |
| 3270-104 | 1/2" x 1/4"     | Steel 3,000 psi (207 bar)   |
| 3270-107 | 1/2" x 3/8"     | Steel 3,000 psi (207 bar)   |
| 3270-110 | 1/2" x 1/2"     | Steel 3,000 psi (207 bar)   |
| 3270-105 | 3/4" x 3/4"     | Steel 3,000 psi (207 bar)   |
| 3270-108 | 1" x 1"         | Steel 3,000 psi (207 bar)   |

## SWIVEL UNIONS 90°



| MODEL    | NPT(F) X NPS(F) | TECHNICAL DATA               |
|----------|-----------------|------------------------------|
| 3270-111 | 1/4" x 1/4"     | Steel 3,000 psi (207 bar)    |
| 3270-056 | 3/8" x 3/8"     | Steel 4,000 psi (275.8 bar)  |
| 3270-113 | 3/8" x 1/4"     | Steel 3,000 psi (207 bar)    |
| 3270-055 | 1/2" x 1/2"     | Steel 3,000 psi (207 bar)    |
| 3270-114 | 1/2" x 3/8"     | Steel 3,000 psi (207 bar)    |
| 3270-058 | 3/4" x 3/4"     | Steel 3,000 psi (207 bar)    |
| 3270-060 | 1" x 1"         | Steel 3,000 psi (207 bar)    |
| MODEL    | NPT(M) X NPS(F) | TECHNICAL DATA               |
| 3270-115 | 1/4" x 1/4"     | Steel 3,000 psi (207 bar)    |
| 3270-050 | 3/8" x 3/8"     | Steel 2,000 psi (137.8 bar)  |
| 3270-116 | 3/8" x 1/2"     | Steel 3,000 psi (207 bar)    |
| 3270-117 | 3/8" x 1/4"     | Steel 3,000 psi (207 bar)    |
| 3270-051 | 1/2" x 1/2"     | Steel 3,500 psi (241.13 bar) |
| 3270-118 | 1/2" x 3/8"     | Steel 3,000 psi (207 bar)    |
| 3270-057 | 3/4" x 3/4"     | Steel 2,500 psi (172.36 bar) |
| 3270-059 | 1" x 1"         | Steel 2,500 psi (172.36 bar) |
| MODEL    | NPT(M) X NPS(M) | TECHNICAL DATA               |
| 3270-065 | 1" x 1/2"       | Steel 2,500 psi (172.36 bar) |

# Lube Piping Specifications

Use these guidelines for selecting line sizes, tubing wall thicknesses and piping schedules for lubrication distribution systems. Air and water recommendations are for supply of air/water hose reels or for supply of air to pumps. Except as noted, maximum pressures shown represent the fluid pressure at the pump outlets when connected to their highest rated air supply pressure.

| MOTOR OIL, GEAR OIL, ATF 0-200 FT |       |                     | TUBING |       | PIPE |        |
|-----------------------------------|-------|---------------------|--------|-------|------|--------|
| PUMP                              | RATIO | MAX PRESSURE        | OD     | WALL  | SIZE | WALL   |
| LYNX <sup>®</sup>                 | 1:1   | 120 psi (8 bar)     | 3/4"   | 0.025 | 3/4" | SCH 40 |
| LYNX <sup>®</sup>                 | 3:1   | 490 psi (34 bar)    | 3/4"   | 0.025 | 3/4" | SCH 40 |
| LYNX <sup>®</sup> HD              | 5:1   | 760 psi (52 bar)    | 3/4"   | 0.025 | 3/4" | SCH 40 |
| Panther <sup>™</sup>              | 3:1   | 490 psi (34 bar)    | 3/4"   | 0.025 | 3/4" | SCH 40 |
| Panther <sup>™</sup>              | 5:1   | 760 psi (52 bar)    | 3/4"   | 0.025 | 3/4" | SCH 40 |
| Tiger <sup>™</sup>                | 6:1   | 870 psi (60 bar)    | 1"     | 0.035 | 1"   | SCH 40 |
| Lion <sup>™</sup> 350             | 5:1   | 875 psi (60 bar)    | 1"     | 0.035 | 1"   | SCH 40 |
| Lion <sup>™</sup> 450             | 3:1   | 540 psi (37 bar)    | 3/4"   | 0.035 | 3/4" | SCH 40 |
| Lion <sup>™</sup> 450             | 6:1   | 1,080 psi (74 bar)  | 3/4"   | 0.035 | 3/4" | SCH 40 |
| Lion <sup>™</sup> 450             | 10:1  | 1,800 psi (124 bar) | 3/4"   | 0.049 | 3/4" | SCH 40 |
| Lion <sup>™</sup> 600             | 6:1   | 1,050 psi (73 bar)  | 3/4"   | 0.035 | 3/4" | SCH 40 |
| Lion <sup>™</sup> 600             | 12:1  | 2,160 psi (149 bar) | 3/4"   | 0.065 | 3/4" | SCH 40 |

| GREASE 0-200 FT       |       |                     | TUBING |       | PIPE |         |
|-----------------------|-------|---------------------|--------|-------|------|---------|
| PUMP                  | RATIO | MAX PRESSURE        | OD     | WALL  | SIZE | WALL    |
| Panther <sup>™</sup>  | 50:1  | 6,000 PSI (414 bar) | 5/8"   | .125  | 1/2" | SCH 80  |
| Lion <sup>™</sup> 350 | 60:1  | 8,700 PSI (600 bar) | 5/8"   | .125  | 1/2" | SCH 80  |
| Lion <sup>™</sup> 450 | 25:1  | 5,000 PSI (345 bar) | 5/8"   | .125  | 1"   | SCH 40  |
| Lion <sup>™</sup> 450 | 40:1  | 8,000 PSI (551 bar) | 5/8"   | .125  | 1/2" | SCH 80  |
| Lion <sup>™</sup> 450 | 70:1  | 7,000 PSI (483 bar) | 5/8"   | 0.095 | 1/2" | SCH 160 |
| Lion <sup>™</sup> 600 | 80:1  | 8,000 PSI (551 bar) | 5/8"   | 0.095 | 1/2" | SCH 160 |

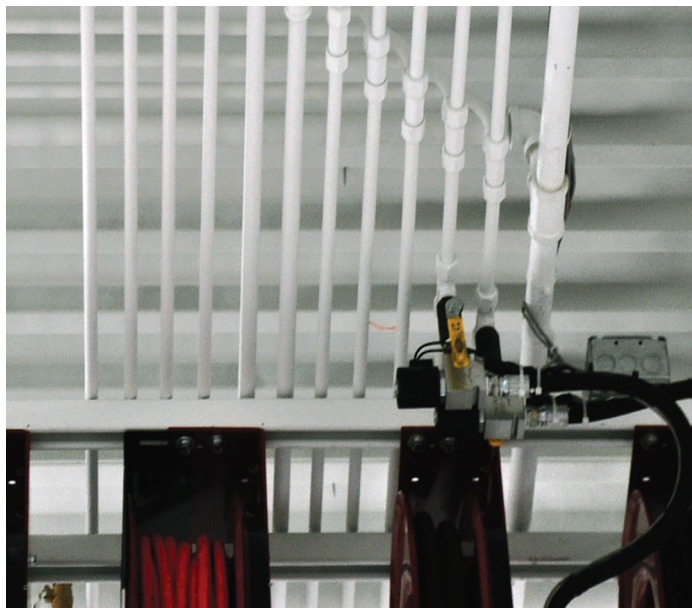
| AIR & WATER 0-200 FT |  | TUBING |      | PIPE |        |
|----------------------|--|--------|------|------|--------|
| MAX PRESSURE         |  | OD     | WALL | SIZE | WALL   |
| 150 PSI (10 bar)     |  | 5/8"   | .025 | 1/2" | SCH 40 |
| 250 PSI (17 bar)     |  | 5/8"   | .025 | 1/2" | SCH 40 |

| AIR & WATER 0-200 FT |  | TUBING |      | PIPE |        |
|----------------------|--|--------|------|------|--------|
| MAX PRESSURE         |  | OD     | WALL | SIZE | WALL   |
| 150 PSI (10 bar)     |  | 3/4"   | .025 | 3/4" | SCH 40 |
| 250 PSI (17 bar)     |  | 3/4"   | .025 | 3/4" | SCH 40 |

| MOTOR OIL, GEAR OIL, ATF OVER 200 FT |       |                     | TUBING |       | PIPE   |        |
|--------------------------------------|-------|---------------------|--------|-------|--------|--------|
| PUMP                                 | RATIO | MAX PRESSURE        | OD     | WALL  | SIZE   | WALL   |
| LYNX <sup>®</sup>                    | 1:1   | 120 psi (8 bar)     | N/A    | N/A   | N/A    | N/A    |
| LYNX <sup>®</sup>                    | 3:1   | 490 psi (34 bar)    | N/A    | N/A   | N/A    | N/A    |
| LYNX <sup>®</sup> HD                 | 5:1   | 760 psi (52 bar)    | 1"     | 0.035 | 1"     | SCH 40 |
| Panther <sup>™</sup>                 | 3:1   | 490 psi (34 bar)    | 1"     | 0.035 | 1"     | SCH 40 |
| Panther <sup>™</sup>                 | 5:1   | 760 psi (52 bar)    | 1"     | 0.035 | 1"     | SCH 40 |
| Tiger <sup>™</sup>                   | 6:1   | 870 psi (60 bar)    | 1 1/4" | 0.042 | 1 1/4" | SCH 40 |
| Lion <sup>™</sup> 350                | 5:1   | 875 psi (60 bar)    | 1 1/4" | 0.042 | 1 1/4" | SCH 40 |
| Lion <sup>™</sup> 450                | 3:1   | 540 psi (37 bar)    | 1"     | 0.035 | 1"     | SCH 40 |
| Lion <sup>™</sup> 450                | 6:1   | 1,080 psi (74 bar)  | 1"     | 0.049 | 1"     | SCH 40 |
| Lion <sup>™</sup> 450                | 10:1  | 1,800 psi (124 bar) | 1"     | 0.065 | 1"     | SCH 40 |
| Lion <sup>™</sup> 600                | 6:1   | 1,050 psi (73 bar)  | 1"     | 0.049 | 1"     | SCH 40 |
| Lion <sup>™</sup> 600                | 12:1  | 2,160 psi (149 bar) | 1"     | 0.083 | 1"     | SCH 40 |

| GREASE OVER 200 FT    |       |                     | TUBING |      | PIPE   |         |
|-----------------------|-------|---------------------|--------|------|--------|---------|
| PUMP                  | RATIO | MAX PRESSURE        | OD     | WALL | SIZE   | WALL    |
| Panther <sup>™</sup>  | 50:1  | 5,000 PSI (345 bar) | 3/4"   | .125 | 3/4"   | SCH 80  |
| Lion <sup>™</sup> 350 | 60:1  | 8,700 PSI (600 bar) | 3/4"   | .125 | 3/4"   | SCH 80  |
| Lion <sup>™</sup> 450 | 25:1  | 5,000 PSI (345 bar) | 3/4"   | .125 | 1 1/2" | SCH 80  |
| Lion <sup>™</sup> 450 | 40:1  | 8,000 PSI (551 bar) | 3/4"   | .109 | 3/4"   | SCH 80  |
| Lion <sup>™</sup> 450 | 70:1  | 7,000 PSI (483 bar) | 3/4"   | .109 | 3/4"   | SCH 160 |
| Lion <sup>™</sup> 600 | 80:1  | 8,000 PSI (551 bar) | 3/4"   | .109 | 3/4"   | SCH 160 |

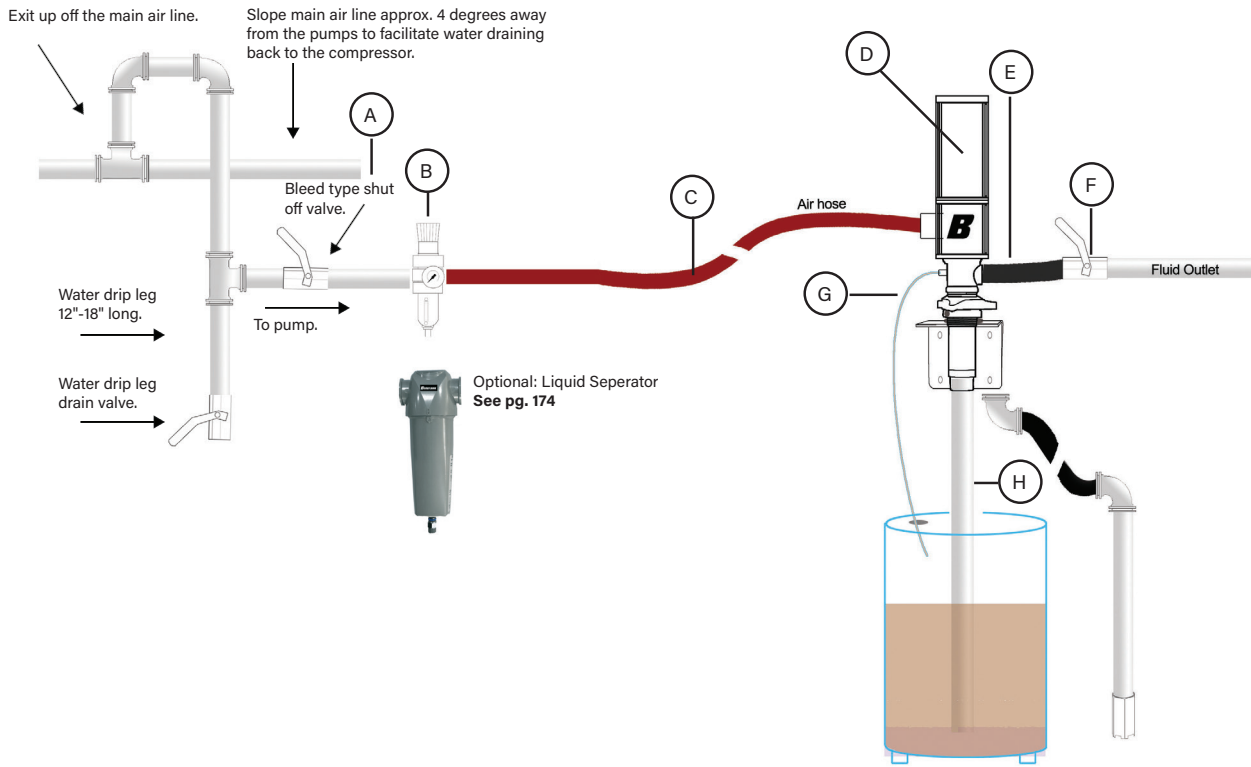


**Additional notes:**

- 1) Line pressures for grease pumps are limited by the strength of steel tubing and grease hose working pressure ratings. Regulate air supply pressure for grease pumps to ("max pressure"/50) psi to avoid line pressure limits.
- 2) Based on use of fully annealed steel tubing, 15,000 psi (1,034 bar) yield strength.
- 3) Multiple air-operated pumps supplied by a common air line may require larger line sizes. Consult your Balcrank Representative for efficient size recommendations.
- 4) Minimize the number of elbows in grease line to reduce pressure drop. Use radius bends is preferred to elbows where installation permits.
- 5) Due to thermal expansion properties of multigrade fluids it is recommended to use a pressure relief valve to prevent premature wear of seals and accidental rupture of supply lines and hoses.



# Oil pumping system



## A - Airline Bleed Type Shut-off Valve

- 3230-009, 3/8"
- 3230-010, 1/2"
- 3230-011, 3/4"

## B - Airline Filter/Regulator

- 3260-034, 1/4"
- 3260-035, 3/8"
- 3260-036, 1/2"

## C - Air Connection Hose

- 8132-005, 1/4"
- 8134-005, 3/8"
- 8149-005, 1/2"

## D - Balcrank oil piston pump

- 1130-015 Panther® 3:1
- 1130-016 Panther® 5:1
- 1130-019 Tiger® 6:1
- 1430-010 Lion™ 350 5:1
- 1430-002 Lion™ 450 6:1
- 1430-003 Lion™ 450 10:1

## E - Fluid Connection Hose

- 8249-005, 1/2" x 5'
- 8264-005, 3/4" x 5'

## F - Fluid Shut-off Valve

- 3230-020, 1/2"
- 3230-007, 3/4"

## G - Pressure Relief

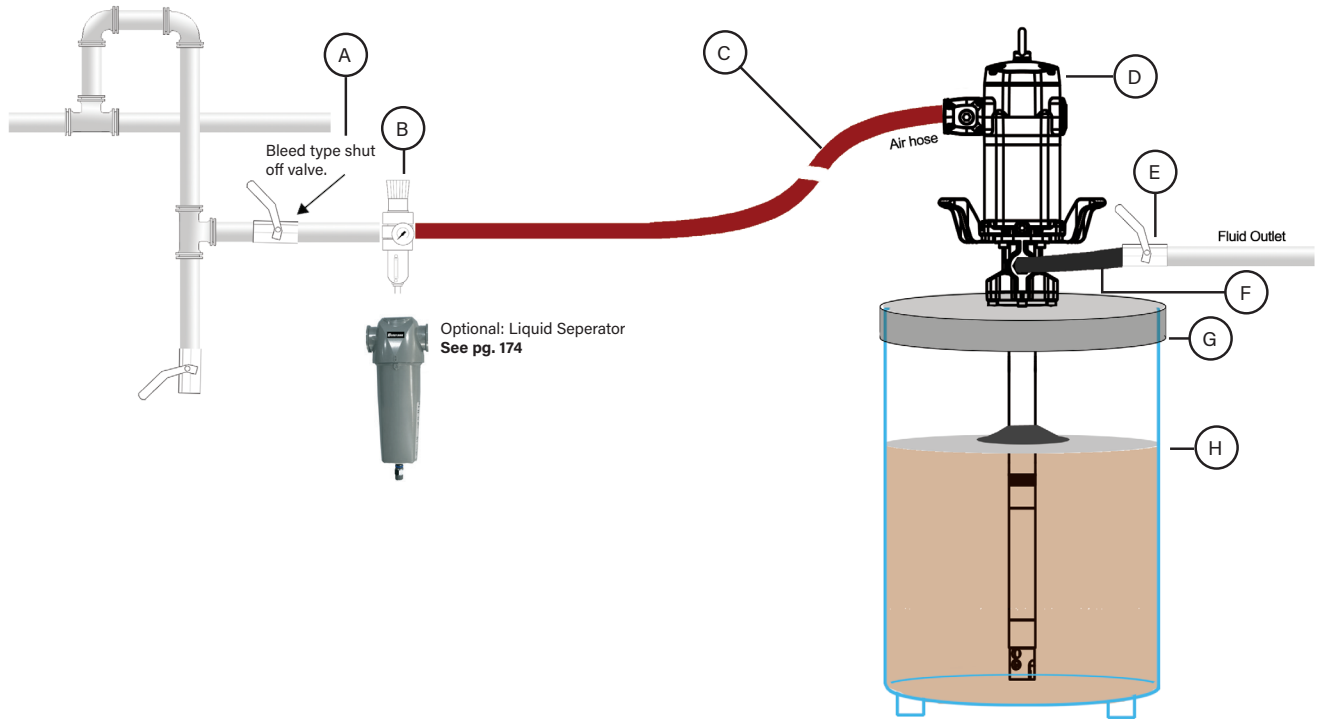
Included with Panther®, Tiger®, and Lion™ pumps

- 3120-214 External pressure relief kit  
1/2" 850 psi
- 3120-215 External pressure relief kit  
3/4" 1450 psi

## H - Suction Tube for Direct Immersion for Panther® 3:1, 5:1, Tiger® 6:1 HP and Lion 450/600 Pumps

|          |                        |                                           |
|----------|------------------------|-------------------------------------------|
| 4412-044 | 1" NPT(M) x 18" - 30°  | 16 gal drum                               |
| 4412-046 | 1" NPT(M) x 26" - 30°  | 55 gal drum                               |
| 4412-048 | 1" NPT(M) x 30" - 30°  | 165/280 gal bench tank double tap         |
| 4412-051 | 1" NPT(M) x 42" - 30°  | 275/330 gal horizontal obround double tap |
| 4412-052 | 1" NPT(M) x 60" - 30°  | 330 gal vertical obround                  |
| 4412-049 | 1" NPT(M) x 32" - 30°  | 275 gal tote                              |
| 4412-050 | 1" NPT(M) x 39" - 30°  | 330 gal tote                              |
| 4412-031 | 1 1/2" NPT x 38" - 30° | Lion, 55 gal drum                         |
| 4412-032 | 1 1/2" NPT x 47" - 30° | Lion, 275 gal horizontal obround          |
| 4412-033 | 1 1/2" NPT x 63" - 30° | Lion, 275 gal vertical obround            |
| 4412-034 | 1 1/2" NPT x 75" - 30° | Lion, 330 gal vertical obround            |

# Grease pumping system



**A - Airline Bleed Type Shut-off Valve**

- 3230-009, 3/8"
- 3230-010, 1/2"

**B - Airline Filter Regulator**

- 3260-034, 1/4"
- 3260-035, 3/8"
- 3260-036, 1/2"

**C - Air Connection Hose**

- 8132-005, 1/4"
- 8132-005, 3/8"
- 8149-005, 1/2"

**D - Balcrank piston grease pump**

- 1150-010 Panther® 50:1 120 lb
- 1150-011 Panther® 50:1 400 lb
  
- 1450-012 Lion™ 350 60:1 120 lb
- 1450-011 Lion™ 350 60:1 400 lb
  
- 1450-003 Lion™ 450 40:1 120 lb
- 1450-002 Lion™ 450 40:1 400 lb

**E- Fluid Shut-off Valve**

- 3230-015, 1/2"
- 3230-016, 3/4"
- 3230-017, 1"

**F - Fluid Connection Hose**

- 8321-007 Panther® 1/4" x 7"
- 8333-007 Lion™ 350 3/8" x 7"
- 8340-010 Lion™ 450/600 1/2" x 10"

**G - Drum Cover 400 lb drum**

- 4420-009 Panther® 120 lb
- 4420-004 Panther® 400 lb
  
- 4420-011 Lion™ 350 120 lb
- 4420-015 Lion™ 350 400 lb
  
- 4420-014 Lion™ 450/600 120 lb
- 4420-013 Lion™ 450/600 400 lb

**H - Follower Plate**

- 4440-009 Panther® 50:1 120 lb
- 4440-004 Panther® 50:1 400 lb
  
- 4440-014 Lion™ 350 120 lb
- 4440-018 Lion™ 350 400 lb
  
- 4440-017 Lion™ 450/600 120 lb
- 4440-015 Lion™ 450/600 400 lb

# Hose Reel System

**A - Airline shut-off valve**

3230-010, 1/2"  
3230-007, 3/4"

**B - Solenoid Valve**

Refer to FIC system for correct valve

**C - Mounting Channel Plate**

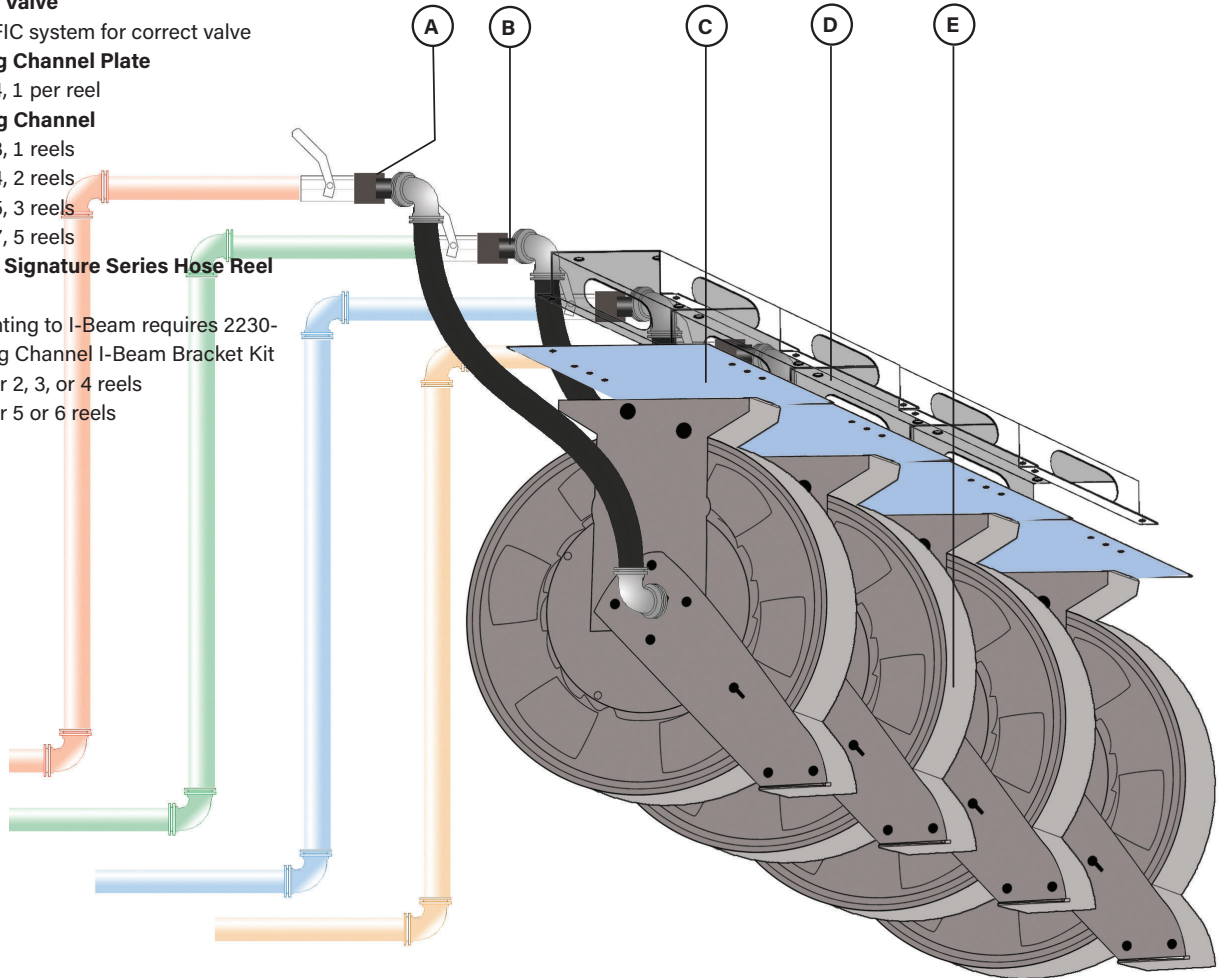
2230-014, 1 per reel

**D - Mounting Channel**

2230-003, 1 reels  
2230-004, 2 reels  
2230-005, 3 reels  
2230-007, 5 reels

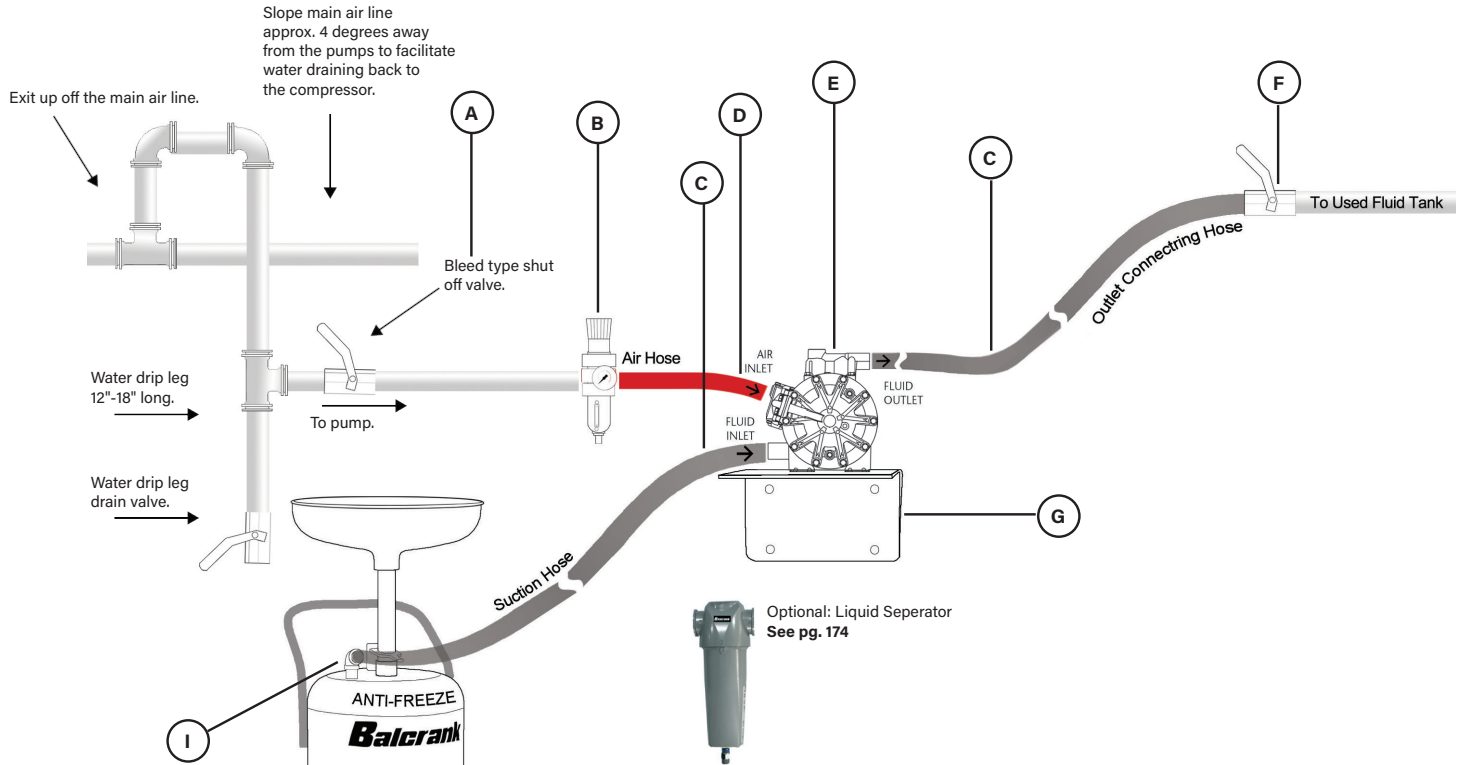
**E - Balcrank Signature Series Hose Reel**

**NOTE:** Mounting to I-Beam requires 2230-002 Mounting Channel I-Beam Bracket Kit  
2 brackets for 2, 3, or 4 reels  
3 brackets for 5 or 6 reels



**NOTE:**

Installation detail is based on one location and is intended to clarify the design intent. Adjust hose reel installation as required to suit specific location(s). Number of reels shown on drawing and installation shall comply with Balcrank's reel installation requirements.



**A - Airline Bleed Type Shut-off Valve**  
3230-019, 3/8"

**B - Airline Filter Regulator**  
3260-035, 3/8"

**C - Suction and Outlet Fluid Hose**  
8264-005, 5' x 3/4" x 2

**D - Air Connection Hose**  
8134-005, 5' X 3/8"

**E - CenterFlo**  
1120-037, CF50 Buna-N, Hytre<sup>®</sup> AODD

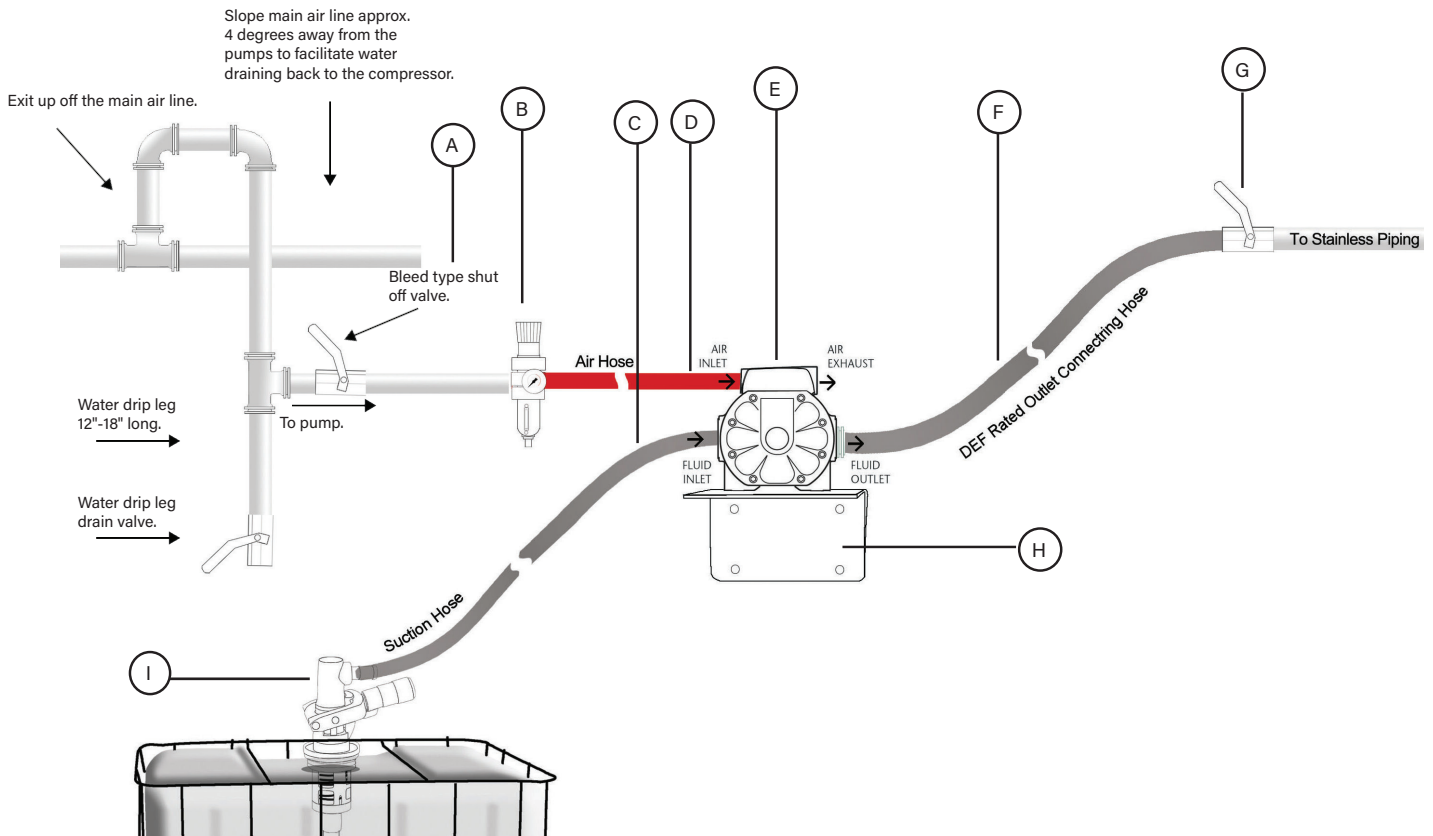
**F - Fluid Shut-off Valve**  
3230-021, 3/4"  
3230-022, 1"

**G - Wall Mount Bracket**  
4411-036

**H - Premium Duty Drain**  
4110-024, Used Oil with 1" cam-lock  
4110-025, Used Anti-freeze with 3/4" cam-lock

**I - Connection Options**  
Used Coolants: 4140-044 Coupler 3/4" NPT(F)  
4140-054 Nipple 3/4" NPT(F)  
4140-046 Dust Cap 3/4" NPT(F)  
4140-052 Dust Plug 3/4" NPT(F)

Used Oils: 4140-017 Coupler 1" NPT(F)  
4140-055 Nipple 1" NPT(F)  
4140-019 Dust Cap 1" NPT(F)  
4140-053 Dust Plug 1" NPT(F)



Slope main air line approx. 4 degrees away from the pumps to facilitate water draining back to the compressor.

Exit up off the main air line.

Bleed type shut off valve.

Water drip leg 12"-18" long.

Water drip leg drain valve.

Suction Hose

- A - Airline Bleed Type Shut-off Valve**  
3230-009, 3/8"
- B - Airline Filter Regulator**  
3260-035, 3/8"
- C - DEF Rated Inlet Hose**  
8570-006, 6' x 3/4"
- D - Air Connection Hose**  
8134-005, 5' x 3/8"
- E - CenterFlo**  
1120-025A, CF15 Poly/BSPP AODD  
1120-031A, CF30 Poly/BSPP AODD

- F - DEF Rated Outlet Connecting Hose**  
8561-006, 6' x 3/4" Swivel Virgin PVC  
2230-032, 3/4" Stainless Steel Clamp
- G - Outlet Valve - Stainless Steel**
- H - Wall Mount Bracket**  
4411-016
- I - Suction Kit includes; RSV series**  
coupler, insert and dip tube  
4530-045, 275 gal tote  
4530-046, 330 gal

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