



# **Balcrank**

## Pumping Solutions

Automotive | Commercial | Industrial



## Pumping Solutions

Balcrank manufactures oil piston pumps that range from 6 to 26 GPM and grease pumps that range from 1.2 to 88 PPM. Balcrank's 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 meet these requirements and provide dependability, longevity, and reliability.

## Oil Piston Pumps Product Selection Matrix

MAX. SIMUL. DISPENSE POINTS	MAX. LINE LENGTH	MAX. FREE FLOW	FLUID INLET	FLUID OUTLET	RECOMMENDED FLUID TYPES
<b>LYNX® 1:1</b>					
1	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>					
1	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>					
1	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>					
1-3	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>					
1-3*	250' (76 m)*	8 gal/min (30 l/min)*	1" NPT(F); 1 1/2" NPT(M)	3/4" NPT(F)	Petroleum Based Oils, Synthetic Oils, Gear and ATF
<b>PANTHER® 5:1</b>					
1-3*	500' (152 m)*	6 gal/min (23 l/min)*	1" NPT(F); 1 1/2" NPT(M)	1/2" NPT(F)	Petroleum Based Oils, Synthetic Oils, Gear and ATF
<b>TIGER® 6:1</b>					
2-4*	500' (152 m)*	16 gal/min (61 l/min)*	1" NPT(F); 1 1/2" NPT(M)	3/4" NPT(F)	Petroleum Based Oils, Synthetic Oils, and Anti-freeze (Glycol), Windshield Wash Fluids
<b>LION™ 450 3:1</b>					
3-4*	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>					
3-4*	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>					
3-4*	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>					
3-4*	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>					
3-4*	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.



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, tapper pumps and medium to light viscosity oils pumping short distances.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Transmission fluid
- Anti-freeze/windshield wash fluids (stainless version)

### Applications

- Tapper 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.**

## LYNX® 1:1 Pump Packages

**16 Gal Pump Packages  
Metered & Non-Metered**

**55 Gal Pump Packages  
Metered & Non-Metered**

**LYNX 2:1 Pump Packages  
Tapper Stub**



## 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.



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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Transmission fluid

### 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.**

## LYNX® 3:1 Pump Packages

**16 Gal Pump Packages  
Metered & Non-Metered**

**55 Gal Pump Packages  
Metered & Non-Metered**



## 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.



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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Transmission fluid
- Gear oil

### 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.**

## LYNX® 5:1 HD Pump Package

### LYNX 5:1 HD Drum Packages



## 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.



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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Transmission fluid

### Applications

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

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

## PANTHER® HP 3:1 Pump Packages

**16 Gal Pump Packages**  
Metered & Non-Metered

**55 Gal Pump Packages**  
Metered & Non-Metered



## 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.



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.

**Fluids**

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Transmission fluid
- Gear oil

**Applications**

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

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

## PANTHER® HP 5:1 Pump Packages

**16 Gal Pump Packages  
Metered & Non-Metered**

**55 Gal Pump Packages  
Metered & Non-Metered**





## 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.



Tiger® is the largest of the Pride series pumps. Pride series pumps are manufactured with a mechanical air valve and piston design 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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Transmission fluid
- Gear oil

### 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

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

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

## TIGER® HP 6:1 Pump Packages

**55 Gal Pump Packages  
Non-Metered**

**55 Gal Pump Packages  
Metered**



## Oil Piston Pumps Lion™ 450 - 3:1 Pump



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

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Gear oil
- Transmission fluid

### 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.**

## Lion™ 450 - 6:1 Pump



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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Gear oil
- Transmission fluid

### 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.**

## Oil Piston Pumps Lion™ 450 - 10:1 Pumps



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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Gear oil
- Transmission fluid

### 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**

## Lion™ 600 - 6:1 Pump



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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Gear oil
- Transmission fluid

### 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.**

## Oil Piston Pumps Lion™ 600 - 12:1 Pump



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.

### Fluids

- Synthetic and mineral based lubricants
- Hydraulic fluid
- Gear oil
- Transmission fluid

### 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.**

## Mobile Oil Packages

### PANTHER® HP 3:1



### PANTHER® HP 5:1



### TIGER® HP 6:1





# Grease Piston Pumps Product Selection Matrix

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 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 three times the safety factor.

Grease viscosity above NLGI-2 requires use of double post RAM on pg. 51. Contact Balcrank for product recommendations.



**LYNX® SERIES**

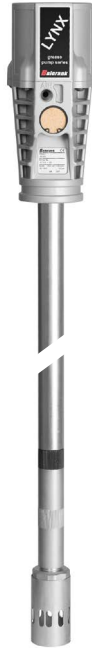


**PANTHER® SERIES**



**LION™ SERIES**

## Grease Piston Pumps LYNX® 55:1 Pumps



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.

### Fluids

- Grease up to NLGI-2

### Applications

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

## LYNX® 55:1 Pump Packages

**25-35 LB Stationary    120 LB Portable**

**400 LB Portable**



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



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.

**Fluids**

- Grease up to NLGI-2

**Applications**

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

## Panther® HP 50:1 Pump Packages



### 25-35 LB Stationary



### 120 LB Portable



### 400 LB Stationary





## Grease Piston Pumps Lion™ 350 60:1 Pumps



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.

**Fluids**

- Grease up to NLGI-2

**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

## Lion™ 350 60:1 Pump Packages



**120 LB**



**400 LB**



**120 LB Portable**



**400 LB Portable**



**400 LB Stationary**



## Grease Piston Pumps Lion™ 350 60:1 Inductor



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.

### Fluids

- Grease up to NLGI-2

### Applications

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

## Lion™ 450 25:1 Pump



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.

### Fluids

- Grease up to NLGI-2
- High viscosity oil

### Applications

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

## Grease Piston Pumps Lion™ 450 40:1 Pumps



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.

**Fluids**

- Grease up to NLGI-2

**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

## Lion™ 450 70:1 Pumps



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.

**Fluids**

- Grease up to NLGI-2

**Applications**

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

## Grease Piston Pumps Lion™ 600 12:1 Pump



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.

**Fluids**

- Grease up to NLGI-2

**Applications**

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

## Lion™ 600 80:1 Pumps



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. Similar to the Lion™ 450 70:1 pump but operates at lower cycle rates for severe environments

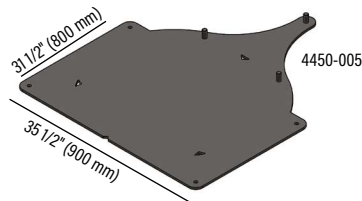
**Fluids**

- Grease up to NLGI-2

**Applications**

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

## Grease Piston Pumps Lion™ Inductor



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 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.

### Fluids

- Grease NLGI-2

### Applications

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

## Lion™ Inductor, Double Post RAM



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 air pressure gauge
- Empty drum shut-off safety feature
- Automatic vacuum release

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.

### Fluids

- Grease NLGI-2
- Grease NLGI-3

### 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

## Diaphragm Pumps Selection Matrix

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 and transfer
<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 used oil	Fluid dispensing and transfer
<b>CF15 SPECIALTY/MIXING</b> NOTE: both fluids and their resulting solution must be compatible with the pump wetted materials						
15 gal/min (50 l/min)	3/8" NPSM(F)	IN - 2-3/8" NPT(F) Out - 1/2" NPT(F)	PTFE (Teflon)	Hytrel <sup>®</sup>	1:1 solutions of water, Anti-freeze (Glycol), and windshield wash	Dual inlet pumps for 1:1 proportion mixing of fluids with similar viscosity
<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, used oil, and diesel	Fluid dispensing and transfer
<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



CF10 POLY

CF15 POLY

CF15 ALU

CF15 MIX

CF30 POLY

CF30 ALU

CF50 POLY

CF50 ALU

## Diaphragm Pumps Selection Matrix

MAX. FREE FLOW	AIR INLET	FLUID IN / OUT	WETTED PARTS		RECOMMENDED FLUID TYPES	RECOMMENDED APPLICATIONS
			CHECK BALLS	DIAPHRAGM		
<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
65 gal/min (250 l/min)	1/2" NPSM(F)	1 1/2" NPT(F)	Buna-N™	Buna-N™	Light viscosity fluids synthetic, mineral, oils, used oil, and diesel	Fluid dispensing, transfer, and evacuation
<b>TF170 ALUMINUM</b>						
170 gal/min (605 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>CONVENTIONAL UL ALUMINUM</b>						
45 gal/min (170l/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 (32.18l/min)	-	1" BSPP(M)	-	Stainless Steel, Viton, PPE	Anti-freeze (Glycol), windshield wash solution and DEF	Fluid dispensing, transfer, and evacuation
9.5 gal/min (34.07l/min)	-	1" BSPP(M)	-	Stainless Steel, Viton, PPE	Anti-freeze (Glycol), windshield wash solution and DEF	Fluid dispensing, transfer, and evacuation



CF65 ALU



TF170 ALU



120 V AC  
ELECTRIC DIAPHRAGM



12 V DC  
ELECTRIC DIAPHRAGM

## AODD CenterFlo CF10



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.

**Fluids**

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

**Markets Served**

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

**Pressure relief valve kit 3120-201 for this pump is recommended and not included.**

## CenterFlo CF15



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.

**Fluids**

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

**Markets Served**

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

**Pressure relief valve kit 3120-201 for this pump is recommended and not included.**



## AODD CenterFlo CF15 Mixing



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 3120-201 for this pump is recommended and not included.**

## CenterFlo CF30



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.

**Fluids**

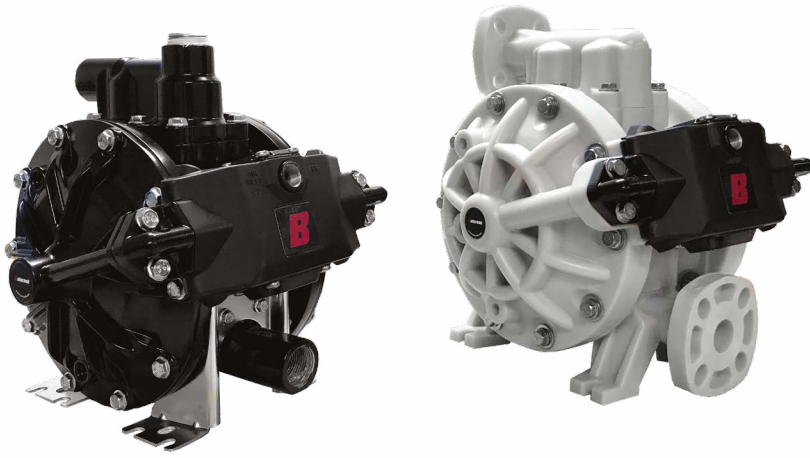
- Anti-freeze (Glycol)
- Light viscosity fluids
- Windshield wash solution
- Synthetic and mineral oils
- DEF
- Used Fluids

**Markets Served**

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

**Pressure relief valve kit 3120-201 for this pump is recommended and not included.**

## AODD CenterFlo CF50



CF50 is a high performance 1" AODD pump with many unique features. Similar to all our CF series pumps, 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

### Fluids

- Used oil
- Used anti-freeze
- Synthetic and mineral based motor oils
- Windshield wash solution

### Markets served

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

**Pressure relief valve kit 3120-202 for this pump is recommended and not included.**

**1120-038 includes flange kit 4411-037 for pump mounting.**

## CenterFlo CF65



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.

### Fluids

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

### Markets Served

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

**Pressure relief valve kit 3120-202 for this pump is recommended and not included.**

## AODD TF170 Universal Pump Design



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

Balcrank's TraditionalFlo 170 pump transfers fluid up to 170 gal/min. Combining conventional flow design with pivoting air valve for increased delivery and reliable performance.

### Fluids

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

### Markets Served

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

## 1" UL Aluminum 45 gal/min



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

### Fluids

- Light viscosity fluids
- Synthetic and mineral oils
- Diesel Fuel
- Used Fluids

### Markets Served

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

## AODD Electric Pumps



1200-020



1200-021

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

**Fluids**

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

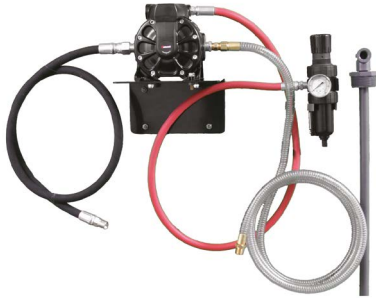
**Markets Served**

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

## AODD Dispense Packages for Anti-freeze

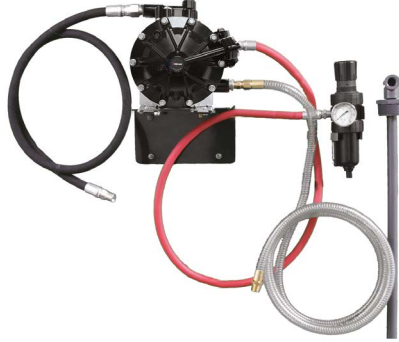
### CF15 Series Wall-Mount Package

Wall mount pumping system for anti-freeze (Glycol) designed for the CF15 series



### CF50 Series Wall-Mount Package

Wall mount pumping system for anti-freeze (Glycol) designed for the CF50 series



### CF15 Series 55 Gal Cart Package

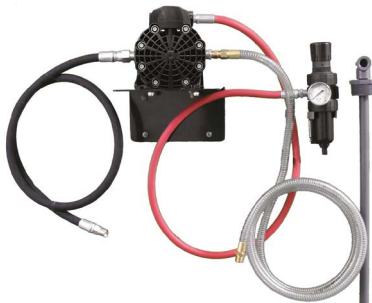
Anti-freeze and windshield wash solution



## AODD Dispense Packages for Windshield Washer Solution

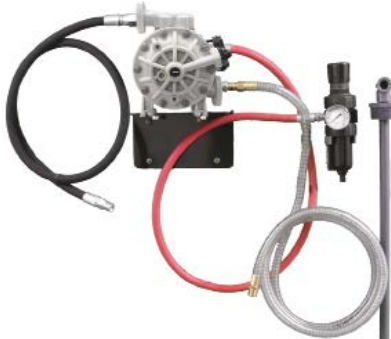
### CF15 Series Wall-Mount Package

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



### CF50 Series Wall-Mount Package

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



### CF30 Series Wall-Mount Kit

Does not include pump.







# **Balcrank**

Fluid Dispensing Systems

## **Balcrank Corporation**

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## **Customer Support**

Tel.: (800) 747-5300 or (828) 645-4261

(Monday to Friday, 8:00 AM - 5:00 PM ET)

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- Pricing
- Shipping dates and delivery information
- Return Merchandise Authorization

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(Monday to Friday, 8:00 AM - 5:00 PM ET)

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- Warranty claims and returns
- Service bulletins

## **Place an Order**

Tel.: (800) 747-5300 or (828) 645-4261

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