

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



**DR SERIES**



**MO SERIES  
METERED**



**MR SERIES  
METERED**



**MR SERIES  
PRESET METERED**



**HIGHFLO  
SERIES**

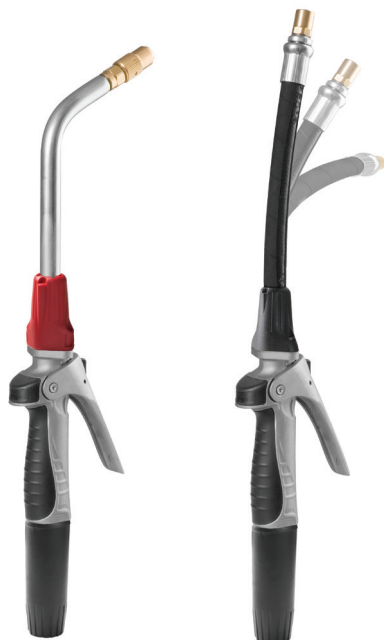


**ELECTRONIC  
PRESET METERED**



**BFH2 METERED  
SERIES**

## Control Handles Non-Metered



**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

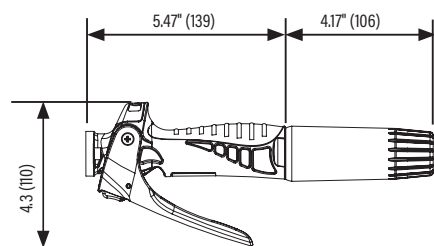
### Markets Served

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

### 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" Manual 1/4 turn for OIL = 0.705" Manual 1/4 turn for ATF = 0.315" 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)

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	-

### Non-Metered Control Handles Description

- 1.1. Non-metered control handle will have an precision machined Aluminum die cast body with mold in-place ergonomic soft grip for comfort and balance.
- 1.2. Non-metered control handle will accept many styles of dispense tips; ¼ turn manual, automatic tip and semi automatic tips available. All Balcrank tips are fast and easy to operate.
- 1.3. Non-metered control handle will fit many styles of fluids extensions: Rigid, Flex, Flex 90 and Memory-flex (Memory-flex can be adjusted to any shape and it will retain its shape until technician re-adjusts it.)
- 1.4. Non-metered control handle will have die cast flange coupling eliminating the use of a threaded connection. Flange coupling provides superior integration for meter and handle.
- 1.5. Non-metered control handle will include rubber swivel cover that protects painted surfaces from scratches. A shroud is used for fluid identification, other shroud colors available; red, blue, yellow, green, and black.
- 1.6. Non-metered control handle will have a sealed ball bearing swivel capable of 8 Gal/m with integrated inlet strainer to remove debris that may cause dispense valve failure.
- 1.7. Non-metered control handle will have a trigger lock button that prevents accidental fluid dispense, can also be used to lock trigger in the open dispense position when used in conjunction with a fluid inventory system. Open dispense position can be disabled for those that do not need this feature.

### Non-Metered Control Handles Specifications:

- 2.1. All Non-metered control handle will have a flow rate of 0.26-10.5 gal/m (1-40 l/m)
- 2.2. All Non-metered control handle will have a maximum working pressure of 1,450 psi (100 bar)
- 2.3. All Non-metered control handle will have a sealed ball bearing swivel with 1/2" NPT (F) threads and a integrated inlet strainer made of 40 mesh material.
- 2.4. All Non-metered control handle will have an operating temperature of 14°F to 140°F (-10°C - 60°C)
- 2.5. All Non-metered control handle will weight 3.30 lb (1.5 kg)
- 2.6. All Non-metered control handle will come standard with one rubberized swivel cover and one fluid identification shroud-black; additional shroud colors sold separately: red, blue, yellow, and green.

### Materials

- 3.1. The wetted materials will consist of Aluminium, Zinc Alloy, Buna-N™, Zinc Plated Steel, Stainless Steel, and Brass.

### Warranty

- 4.1. Non-metered control handle have a 1-year standard warranty on defects in materials and workmanship only.
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).

# Control Handles DR Meter (Digital Register Meter)

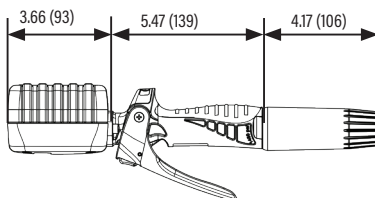


See Dispense nozzle OD for important details

## 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" Manual 1/4 turn for OIL = 0.705" Manual 1/4 turn for ATF = 0.315" 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

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**

- 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 reparability

## Markets Served

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

MODELS AVAILABLE	EXTENSION TYPE & NOZZLE	EXTENSION CODE
Verify ID of ATF fill port for compatibility.		
3330-161	Flex Auto	3332-095
3330-157	Rigid 1/4 turn - OIL	3332-091
3330-158	Flex 90 1/4 turn - OIL	3332-092
3330-159	Flex-memory 1/4 turn - OIL	3332-093
3330-169	Rigid 1/4 turn - ATF	3332-101
3330-172	Flex-memory 1/4 turn - ATF	3332-104
3330-159B	Flex-memory 1/4 turn - OIL (qty. 10)	3332-093
3330-172B	Flex-memory 1/4 turn - ATF (qty. 10)	3332-104
3330-166	DR bare	-

# Control Handles

## DR Meter (Digital Register Meter)

### DR Metered Control Handle Description

- 1.1. DR Meter will not require field calibration.
- 1.2. DR Meter Aluminum machined housing will be totally encased by polycarbonate with TP Elastomer over mold. This provides superior impact resistance while isolating the electronic register module (ERC).
- 1.3. DR Meter battery compartment will be sealed, requiring no cables to the ERC.
- 1.4. DR Meter will have a low power consumption indicator controlled by the ERC with auto-sleep function that is activated after 30 seconds of non-use.
- 1.5. DR Meter will have a resettable trip function: the resettable trip function can operate as an economical, means to reconcile your fluid inventory.
- 1.6. DR Meter will have a non-resettable totalizer function: shows total amount of fluid that has flowed through the meter and is tamper proof.
- 1.7. Control handle will have an precision machined Aluminum die cast body with mold in-place ergonomic soft grip for comfort and balance.
- 1.8. Control Handle can accept many styles of dispense tips; ¼ turn manual, automatic tip and semi automatic tips available. All Balcrank tips are fast and easy to operate.
- 1.9. Control Handle will fit many styles of fluids extensions: Rigid, Flex, Flex 90 and Memory-flex (Memory-flex can be adjusted to any shape and it will retain its shape until technician re-adjusts it.)
- 1.10. Control Handle will have die cast flange coupling eliminating the use of a threaded connection. Flange coupling provides superior integration for meter and handle.
- 1.11. Control handle will include rubber swivel cover that protects painted surfaces from scratches. A shroud is used for fluid identification, other shroud colors available; red, blue, yellow, green, and black.
- 1.12. Control Handle will have a sealed ball bearing swivel capable of 8 Gal/m with integrated inlet strainer to remove debris that may cause dispense valve failure.
- 1.13. Control Handle will have a trigger lock button that prevents accidental fluid dispense, can also be used to lock trigger in the open dispense position when used in conjunction with a fluid inventory system. Open dispense position can be disabled for those that do not need this feature.

### DR Series Metered Control Handles Specifications:

- 2.1. All DR meters will measure in quart, liter, pint, and gallon; totalizer unit of measure is gallons.
- 2.2. All DR meters will have a measurement accuracy of +/- 0.5%
- 2.3. All DR metered control handles will have a flow rate of 0.26-8 gal/m (1-30 l/m)
- 2.4. All DR metered control handles will have a maximum working pressure 1,450 psi (100 bar)
- 2.5. All DR metered control handles will have a sealed ball bearing swivel with 1/2" NPT (F) threads and a integrated inlet strainer made of 40 mesh material.
- 2.6. DR metered control handles will have an operating temperature of 140°F to 160°F (-10°C to 60°C)
- 2.7. DR metered control handles will weight 4 lb (1.80 kg)
- 2.8. DR meter will have a power source is two alkaline 1.5v "AAA" battery size.

### Materials

- 3.1. The wetted materials will consist of Liquid Crystal Polymer (LCP), Aluminium, Buna-N™, Zinc Plated Steel, Stainless Steel, Neodymium, and Brass.

### Warranty

- 4.1. DR control handle meters have a 1-year standard warranty on defects in materials and workmanship only.
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).

# Control Handles

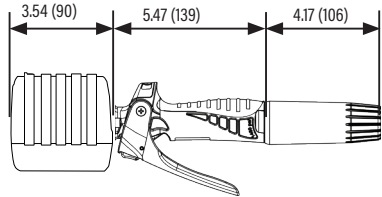
## MO Meter (Mechanical Oval Gear Meter)



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" Manual 1/4 turn for OIL = 0.705" Manual 1/4 turn for ATF= 0.315" 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

## MO Meter (Mechanical Oval Gear Meter)

### MO Metered Control Handle Description

- 1.1. MO Meter will have a 6-digit totalizer; keeps lifetime record of volume dispensed in gallons.
- 1.2. MO Meter will have odometer display, works without batteries and performs well in all environments.
- 1.3. MO Meter requires no calibration; precision machined metering chamber assures repeatable accuracy.
- 1.4. MO Meter will have an ergonomically designed grip handle for optimum comfort.
- 1.5. MO Meter will have a unique 1/4 turn manual non-drip tip; fast, simple.
- 1.6. MO Meter will have an included swivel hose-end cover, protects vehicle or machine surfaces from scratches.

### MO Series Metered Control Handles Specifications:

- 2.1. All MO meters will measure in quart and liter; totalizer unit of measure is gallons.
- 2.2. All MO meters will have a measurement accuracy of +/- 1%
- 2.3. All MO metered control handles will have a flow rate of 0.25-8 gal/m (1-30 l/m)
- 2.4. All MO metered control handles will have a maximum working pressure 1,000 psi (70 bar)
- 2.5. MO metered control handles will have an operating temperature of 140°F to 140°F (-10°C to 60°C)
- 2.6. MO metered control handles will weight 4 lb 1.80 kg)

### Materials

- 3.1. The wetted materials will consist of Acetal, Aluminium, Stainless Steel, NBR, Zinc plated steel, TPU, and Polyamide.

### Warranty

- 4.1. MO control handle meters have a 1-year standard warranty on defects in materials and workmanship only.
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).



# Control Handles

## MR Meter (Mechanical Registry Meter)



Gallons



Liters

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" Manual 1/4 turn for OIL = 0.705" Manual 1/4 turn for ATF= 0.315" 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

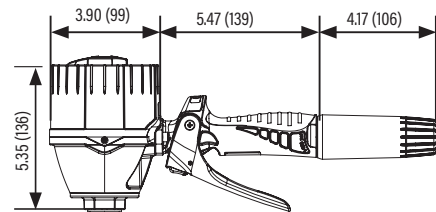
**Synthetic and mineral based lubricants**  
**Gear Oil**  
**Hydraulic oil and fluids**  
**ATF**  
**Anti-freeze (Glycol)**

- 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

Dimensions inches (mm)



MODELS AVAILABLE	EXTENSION TYPE & NOZZLE	EXTENSION CODE U/M
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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



# Control Handles

## MR Meter (Mechanical Registry Meter)

### MR Mechanical Registry Control Handles Description

- 1.1. MR meter housing will be polycarbonate based integral register housing and single molded pointer knob will guarantee maximum integrity of the meter against drops and impacts.
- 1.2. MR meter will have a simple and easy to read dial can be read at any time regardless of the ambient temperature or in direct sunlight.
- 1.3. MR meter will have a full metal meter for long life and maximum durability.
- 1.4. MR meter will have larger measuring chamber improves delivery rate up to 0.5-5.3 gal/min (2-20 l/min).
- 1.5. MR meter will have a non-resettable totalizer function: shows total amount of fluid that has flowed through the meter and is tamper proof.
- 1.6. Control handle will have an precision machined Aluminum die cast body with mold in-place ergonomic soft grip for comfort and balance.
- 1.7. Control handle can accept many styles of dispense tips; ¼ turn manual, automatic tip and semi automatic tips available. All Balcrank tips are fast and easy to operate.
- 1.8. Control handle will fit many styles of fluids extensions: Rigid, Flex, Flex 90 and Memory-flex (Memory-flex can be adjusted to any shape and it will retain its shape until technician re-adjusts it.)
- 1.9. Control handle will have die cast flange coupling eliminating the use of a threaded connection. Flange coupling provides superior integration for meter and handle.
- 1.10. Control handle will include rubber swivel cover that protects painted surfaces from scratches.
- 1.11. Control handle will have a sealed ball bearing swivel capable of 8 Gal/m with integrated inlet strainer to remove debris that may cause dispense valve failure.
- 1.12. Control handle will have a trigger lock button that prevents accidental fluid dispense, can also be used to lock trigger in the open dispense position when used in conjunction with a fluid inventory system. Open dispense position can be disabled for those that do not need this feature.

### MR Mechanical Registry Control Handles Specifications:

- 2.1. All MR control handles will measure in liters and quarts.
- 2.2. All MR control handles will have a measurement accuracy of +/- 0.65%
- 2.3. All MR control handles will have a flow rate of 0.26-8 gal/min (1-30 l/min)
- 2.4. All MR control handles will have a maximum pressure of 1,450 psi (100 bar)
- 2.5. All MR control handles will have a swivel inlet of 1/2" NPT(F)
- 2.6. All MR control handles will have an operating temperature of 14 °F to 140 °F (-10 °C to 100 °C) and be suitable for extreme temperature conditions
- 2.7. All MR control handles will weight 3.75 lb (1.7 kg)
- 2.8. All MR control handles will come standard with 1 black shroud.

### Materials

- 3.1. MR control handles wetted materials will consist of Aluminum, stainless Steel, Zinc alloy, Buna-N™, Zinc plated Steel, and Brass.

### Warranty

- 4.1. MR control handle meters have a 2-year parts and labor warranty (defects in materials and workmanship only).
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).

# 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

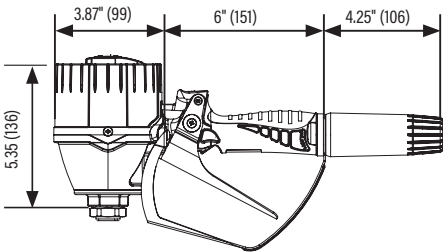
### Markets Served

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

### 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

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

## MR Meter (Mechanical Preset Meter)

### MR Mechanical Preset Control Handles Description

- 1.1. MR style meter with preset function.
- 1.2. Preset mode dispensing allows hands-off operation as the meter automatically shuts off once the preset volume is delivered
- 1.3. 1 piece molded pointer knob is resistant to impacts
- 1.4. No calibration required; precision machined metering chamber assures repeatable accuracy
- 1.5. Meter with analogue dial display, works without batteries and performs well in all environment. Includes inlet swivel and rigid outlet with non-drip nozzle
- 1.6. Viscosity and temperature change does not effect accuracy
- 1.7. 33% improved performance over competitive mechanical meters
- 1.8. 5-digit totalizer; keeps lifetime record of volume dispensed
- 1.9. Easy access filter in swivel at meter inlet
- 1.10. Swivel protective cover
- 1.11. Flanged coupling; prevents leaks commonly found in competitive meters
- 1.12. Ergonomic comfort handle

### MR Mechanical Preset Control Handles Specifications:

- 2.1. All MR control handles will measure in Gallons, Quarts, and Liters
- 2.2. All MR control handles will have a measurement accuracy of +/- 0.65%
- 2.3. All MR control handles will have a flow rate of 0.25 - 8 gal/min (1 - 30 l/min)
- 2.4. All MR control handles will have a maximum pressure of 1,450 psi (100 bar)
- 2.5. All MR control handles will have a swivel inlet of 1/2" NPT(F)
- 2.6. All MR control handles will have an operating temperature of -49° F to 158° F (-45° C to 70° C) and be suitable for extreme temperature conditions
- 2.7. All MR control handles will weight 4.4 lb (2 kg)
- 2.8. All MR control handles will come standard with 1 black shroud.

### Materials

- 3.1. Mechanical Preset control handles wetted materials will consist of Zinc alloy, aluminum, Buna-N™, stainless steel, brass, steel, TPU and polyamide

### Warranty

- 4.1. Mechanical Preset control handle meters have a 2-year parts and labor warranty (defects in materials and workmanship only).
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).

## 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

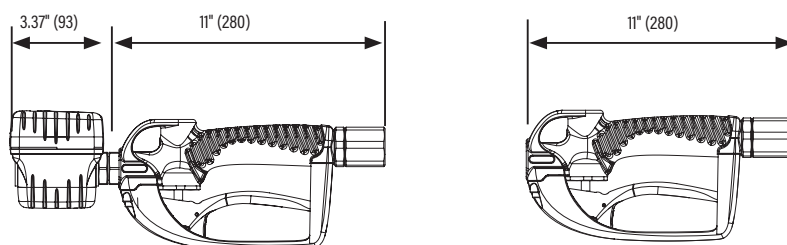
- Truck dealers
- Fleets
- Mining and construction
- Lube trucks
- Railroad and mass transit

### 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 3/4" NPT(F) Inlet
<b>3330-198</b>	Flex - Metered 3/4" NPT(F) Inlet
<b>3330-199</b>	Rigid - Metered 1" NPT(F) Inlet
<b>3330-200</b>	Flex - Metered 1" NPT(F) Inlet
<b>3320-051</b>	Rigid - Non-Metered 3/4" NPT(F) Inlet
<b>3320-052</b>	Flex - Non-Metered 3/4" NPT(F) Inlet
<b>3320-053</b>	Rigid - Non-Metered 1" NPT(F) Inlet
<b>3320-054</b>	Flex - Non-Metered 1" NPT(F) Inlet

Dimensions inches (mm)



## Control Handles HighFlo

### HighFlo Control Handles Description

- 1.1. HighFlo Control Handle is designed for service where higher volume deliveries are required.
- 1.2. High volume rigid or flexible outlets with non-drip tip.
- 1.3. 3/4" or 1" NPT inlet connection thread
- 1.4. Ideal for bulk fill, transfer and high flow dispense.
- 1.5. Heavy duty rugged design.

### HighFlo Control Handles Specifications:

- 2.1. All High flow metered control handles will measure in liters, quarts, pints and gallons
- 2.2. All High flow metered control handles will have a measurement accuracy of +/- 0.5%
- 2.3. All High flow non-metered control handles will have a flow rate of 0.52-19 gal/min (2-70 l/min)
- 2.4. All High flow metered control handles will have a flow rate of 0.26-24 gal/min (1-90 l/min)
- 2.5. All High flow control handles have a maximum working pressure of 1,450 psi (100 bar)
- 2.6. All High flow control handles have a swivel inlets of 3/4" NPT(F) & 1" NPT(F)
- 2.7. All High flow control handles will have an operating temperature of 14 °F to 140 °F (-10 °C to 60 °C) and be suitable for extreme temperature conditions
- 2.8. All High flow non-metered control handles will weigh 4.5 lb (2.05 kg)
- 2.9. All High flow metered control handles will weigh 6.3 lb (2.85 kg)

### Materials

The wetted materials will consist of

- 3.1. Metered Acetal, Aluminum, stainless Steel, Buna-N™, Zinc plated Steel and Brass
- 3.2. Non-Metered Aluminum, Buna-N™, Zinc plated Steel and Brass

### Warranty

- 4.1. All Highflo control handles 1-year standard warranty on defects in materials and workmanship only.
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).

# 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

## TECHNICAL DATA

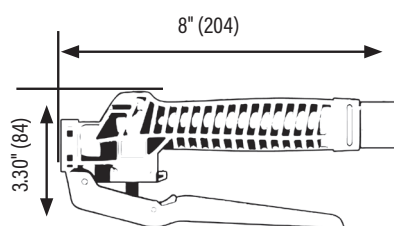
SPECIFICATIONS	FLUID HANDLE	METERED FLUID HANDLE
Units of measure	-	Quarts, pints, gallons, liters
Accuracy	-	± 0,5%
Flow Rate	8 gal/m (30 l/m)	8 gal/m (30 l/m)
Maximum pressure	725 psi (50 bar)	435 psi (30 bar)
Swivel Inlet	1/2" NPT(F)	1/2" NPT(F)
Operating Temperature	14° F to 122° F (-10° C to 50° 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
<b>DEF, Windshield Wash Solutions, Glycol, Anti-freeze</b>	
<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
<b>Windshield Wash Solutions, Glycol, Anti-freeze</b>	
<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

## RECOMMENDED EXTENSIONS

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)

Dimensions in (mm)



# Control Handles

## BFH2 Fluid Handle

### BFH2 Fluid Control Handles Description

- 1.1. High chemical compatibility
- 1.2. Easy flanged meter connection
- 1.3. Improved ergonomic design
- 1.4. Increased security

### BFH2 Fluid Control Handles Specifications:

- 2.1. All BFH2 metered control handles will measure in liters, quarts, pints and gallons
- 2.2. All BFH2 metered control handles will have a measurement accuracy of +/- 0.5%
- 2.3. All BFH2 non-metered control handles will have a flow rate of 8 gal/m (30 l/m)
- 2.4. All BFH2 metered control handles will have a flow rate of 8 gal/m (30 l/m)
- 2.5. All BFH2 non-metered control handles have a maximum working pressure of 725 psi (50 bar)
- 2.6. All BFH2 metered control handles have a maximum working pressure of 435 psi (30 bar)
- 2.7. All BFH2 control handles have a swivel inlets of 1/2" NPT(F)
- 2.8. All BFH2 control handles will have an operating temperature of 14° F to 122° F (-10° C to 50° C) and be suitable for extreme temperature conditions
- 2.9. All BFH2 non-metered control handles will weigh 0.63 lb (284 kg)
- 2.10. All BFH2 metered control handles will weigh 1.81 lb (819 kg)

### Materials

The wetted materials will consist of

- 3.1. Metered Stainless Steel, PVC, LCP, Viton®, PP, Acetal, PA
- 3.2. Non-Metered PP, Stainless Steel, Acetal, PA, Viton®

### Warranty

- 4.1. All BFH2 Fluid control handles 1-year standard warranty on defects in materials and workmanship only.
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).



# 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

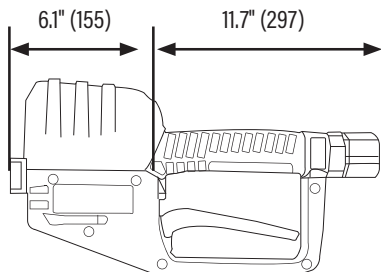
- Auto and truck dealerships
- Truck fast lube and maintenance shops
- Fleets
- Mining and construction
- Railroad and mass transit

### TECHNICAL DATA

Units of measure	Quarts, pints, gallons, liters
Accuracy	+/- 0.5 %
Flow Range	0.25-75 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 1/4 turn - OIL	3332-091
<b>3331-032</b>	Flex Memory - OIL	3332-093
<b>3331-033</b>	DR bare	-

# Control Handles

## EP Meter (Electronic Preset Meter)

### EP Meter Control Handles Description

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

### EP Meter Control Handles Specifications:

- 2.1. All EP Meter control handles will measure in liters, quarts, pints and gallons
- 2.2. All EP Meter control handles will have a measurement accuracy of +/- 0.5%
- 2.3. All EP Meter control handles will have a flow rate of 0.25-7.5 gal/m (1-30 l/m)
- 2.4. All EP Meter control handles have a maximum working pressure of 1,425 psi (100 bar)
- 2.5. All EP Meter control handles have a swivel inlets of 1/2" NPT(F)
- 2.6. All EP Meter control handles will use battery type 4 x alkaline "AA"
- 2.7. All EP Meter control handles will weigh 3.7 lb (1.7 kg)

### Materials

The wetted materials will consist of Aluminum, AISI316 Stainless Steel, Buna-N™, Delrin, Brass, and Zinc Plated Steel.

### Warranty

- 4.1. All EP Meter control handles 1-year standard warranty on defects in materials and workmanship only.
- 4.2. The control handle components will have a 1-year replacement only warranty (defects in materials and workmanship only).