

# Lubrication Equipment & Accessories



Commercial



Industrial



Automotive

**Balerank**

The Products you want from a Company you Trust

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**COVER:** LaFontaine Automotive Group...Michigan's only GREEN automotive dealership. Equipped by Balcrank.



# PUMPS

# PISTON PUMPS

## MEDIUM PRESSURE



**BOBCAT™ 1.3:1**

**PANTHER® HP 3:1**

**PANTHER® HP 5:1**

### SELECTION GUIDE

LINE LENGTH	150 ft	500 ft	700 ft
DISPENSE POINTS (SIMULTANEOUS)	3	3	2
MAXIMUM ANNUAL USAGE - GPY	24,000	28,000	18,000
FREE FLOW, GPM @ 100 PSI AIR	14.0	7.5	5.5
FLUID TYPES	Petroleum based oils Synthetic oils Antifreeze (Stainless Models)	Petroleum based oils Synthetic oils	Petroleum based oils Synthetic oils
TYPICAL APPLICATIONS	Quick Lubes Transmission Centers Tire Centers Industrial Plants Mining	Automotive Dealerships Transmission Centers Tire Centers Quick Lubes Industrial Plants Mobile Lube Mining	Automotive Dealerships Transmission Centers Tire Centers Quick Lubes Industrial Plants Mobile Lube Mining

### REFERENCE DATA

CATALOG PAGES	6-7	8-9	10-11
SERVICE BULLETIN	SB1078	SB 1064	SB 1064

## MEDIUM PRESSURE



**TIGER® HP 5:1**

**LION™ HP 5:1**

**LION™ HP 10:1**

### SELECTION GUIDE

LINE LENGTH	700 ft	700 ft	1,000 ft
DISPENSE POINTS (SIMULTANEOUS)	6	10	6
MAXIMUM ANNUAL USAGE - GPY	44,000	120,000	65,000
FREE FLOW, GPM @ 100 PSI AIR	20.0	27.0	16.5
FLUID TYPES	Petroleum based oils Synthetic oils Antifreeze (Stainless Model)	Petroleum based oils Synthetic oils	Petroleum based oils Synthetic oils
TYPICAL APPLICATIONS	Automotive Dealerships Fleet Service Transmission Centers Tire Centers Quick Lubes Industrial Plants Mobile Lube Mining	Automotive Dealerships Fleet Service Transmission Centers Tire Centers Quick Lubes Industrial Plants Mobile Lube Mining	Large Automotive Dealerships Large Fleet Service Transmission Centers Tire Centers Quick Lubes Industrial Plants Mobile Lube Mining

### REFERENCE DATA

CATALOG PAGES	12-13	14-15	16-17
SERVICE BULLETIN	SB1065	SB 1073	SB 1073

# PISTON PUMPS

## BOBCAT™ 1.3:1 PUMPS

### FEATURES:

- Pressure relief on carbon steel models - Built in safety feature reduces premature wear of hoses and seals
- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Extends compressor life
- Built in pump exhaust - Results in quiet operation and eliminates icing
- Stainless steel pump rod - Reduces corrosion and extends seal life
- Double acting pump lower - Delivers consistent fluid flow with greater dispensing accuracy



### MODELS AVAILABLE:

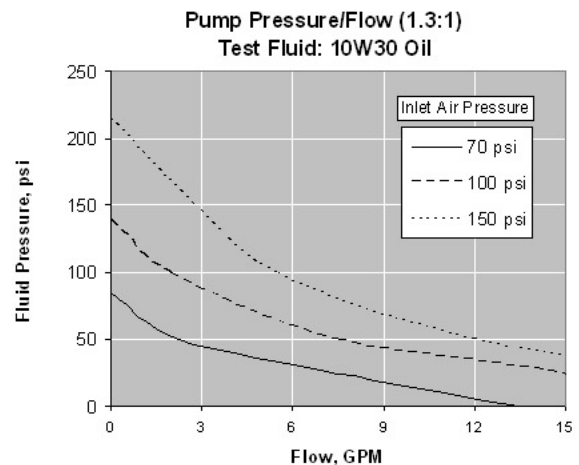
- 1110-005** Carbon Steel Stub
- 1110-006** Carbon Steel Drum Length
- 1160-002** Stainless Steel Stub (Pressure relief not built-in)
- 1160-006** Stainless Steel Drum Length (Pressure relief not built-in)

### TYPICAL APPLICATIONS:

- Quick Lubes
- Transmission Centers
- Tire Centers
- Industrial Plants
- Mining

### SPECIFICATIONS

Eff. diameter	1.77"
Operating air pressure range	40-150 psi
Air consumption (SCFM per gal, 100 psi air)	2.20
Max fluid stall pressure @150 psi air	195 psi
Air inlet NPT(F)	1/4"
Fluid inlet NPT(F)	1" (F) 1-1/2" (M)
Fluid outlet NPT(F)	3/4"
Cycles per gallon	30
Wetted materials	Carbon Steel, Buna, SS, Nickel Plating, Nylon, Ultrathane 316 Stainless Steel, Viton, Acetal (1160-002, 1160-006)
Service bulletin	SB1078



## BOBCAT™ 130 OUTFITS



OUTFIT	1111-002	1111-003
DESCRIPTION	Spigot Dispense Outfit	Drum Mount Outfit
BARE PUMP	1110-005	1110-005
ACCESSORY KIT	4410-009	4410-011
BUNG ADAPTER	4411-009	4411-009
AIR HOSE	-	8132-003
FLUID HOSE	-	8261-005
SUCTION TUBE	4412-008	-
DISPENSE VALVE	4200-004	-

## ACCESSORIES (Pg. 18-19)

### SUCTION TUBES:

4412-006	1" NPT(M) x 20" for 16 gallon drum
4412-007	1" NPT(M) x 26-1/2" S/S for 55 gallon drum
4412-008	1" NPT(M) x 26-1/2" for 55 gallon drum
4412-012	1" NPT(M) Telescoping - 22 1/2"-42 1/2"

### SUCTION AIR ELIMINATOR/LOW LEVEL CUT-OFF:

4411-010	3/4" and/or 1" thread
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### PUMP OVER-RUN CONTROL:

3241-002	1/4" NPT(F)
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### SUCTION CHECK VALVES AND KIT:

4411-015	1" NPT(F)
4411-019	1" NPT(F), Vented
4412-010	1" NPT(F), includes 22-1/2" Tube

### FILTER REGULATOR LUBRICATOR:

3260-049	1/4" NPT(F)
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### PRESSURE RELIEF:

3120-019
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### DOLLY BASES:

4310-001	16 gallon
4310-003	16 gallon wide track
4310-004	55 gallon

### DRUM COVERS:

4420-005	16 gallon
4420-007	55 gallon

### DRUM CARTS:

4320-003	16 gallon/55 gallon
4320-004	16 gallon
4320-006	30 gallon

### BUNG ADAPTERS:

4411-009	Aluminum
4411-017	Nickel Plated
4411-018	Double Tapped Bushing

### WALL MOUNT BRACKET:

4411-008
----------

# PISTON PUMPS

## PANTHER® HP 3:1 PUMPS

### FEATURES:

- Pressure relief on carbon steel models - Built in safety feature reduces premature wear of hoses and seals
- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Extends compressor life
- Built in pump exhaust - Results in quiet operation and eliminates icing
- Stainless steel pump rod - Reduces corrosion and extends seal life
- Double acting pump lower - Delivers consistent fluid flow with greater dispensing accuracy



### MODELS AVAILABLE:

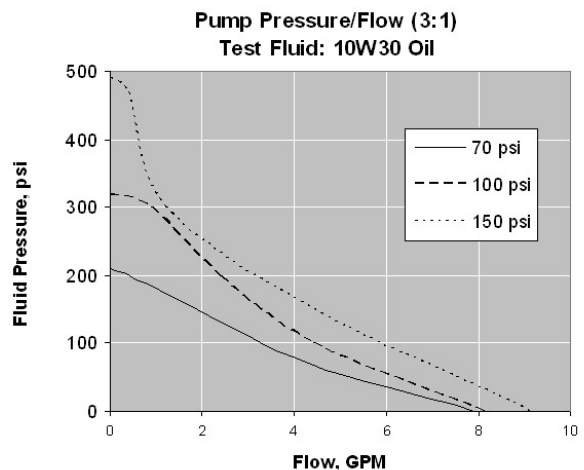
- 1130-015** Carbon Steel Stub
- 1130-017** Carbon Steel Stub Flange Mount
- 1130-020** Carbon Steel Stub with Bung Adapter

### TYPICAL APPLICATIONS:

- Automotive Dealerships
- Quick Lubes
- Transmission Centers
- Tire Centers
- Industrial Plants
- Mining

### SPECIFICATIONS

Eff. diameter	2.50"
Operating air pressure range	10-150 psi
Air consumption (SCFM per gal, 100 psi air)	3.6
Max fluid stall pressure @150 psi air	495 psi
Air inlet NPT(F)	1/4"
Fluid inlet NPT(F)	1" (F) 1-1/2" (M)
Fluid outlet NPT(F)	3/4"
Cycles per gallon	30
Wetted materials	Carbon Steel, Buna, SS, Nickel Plated Steel, Nylon, Ultrathane Zinc Plated Steel
Service bulletin	SB1064





## PANTHER® HP 3:1 OUTFITS



OUTFIT	1131-007	1131-009	1131-013
<b>DESCRIPTION</b>	Wall Mount Outfit	Drum Mount Outfit	16 Gallon Portable Outfit
<b>BARE PUMP</b>	1130-015	1130-015	1130-015
<b>ACCESSORY KIT</b>	4410-022	4410-027	
BUNG ADAPTER	4411-009	4411-009	4411-009
AIR HOSE	8121-003	8121-003	-
FLUID HOSE	8249-005	8249-005	8249-006
SUCTION TUBE OR KIT	4410-034	-	4412-006
WALL MOUNT BRACKET	4411-008	-	-
CONTROL HANDLE	-	-	3330-103
DRUM COVER	-	-	4420-005
DOLLY	-	-	4310-001

## ACCESSORIES (Pg. 18-19)

### SUCTION TUBES:

- 4412-006 1" NPT(M) x 20" for 16 gallon drum
- 4412-008 1" NPT(M) x 26-1/2" for 55 gallon drum
- 4412-012 1" NPT(M) Telescoping - 22 1/2"-42 1/2"

### SUCTION AIR ELIMINATOR/LOW LEVEL CUT-OFF:

- 4411-010 3/4" and/or 1" thread

### PUMP OVER-RUN CONTROL:

- 3241-002 1/4" NPT(F)

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented
- 4412-010 1" NPT(F), includes 22-1/2" Tube

### FILTER REGULATOR LUBRICATOR:

- 3260-049 1/4" NPT(F)

### DOLLY BASES:

- 4310-001 16 gallon
- 4310-003 16 gallon wide track
- 4310-004 55 gallon

### DRUM COVERS:

- 4420-005 16 gallon
- 4420-007 55 gallon

### DRUM CARTS:

- 4320-003 16 gallon/55 gallon
- 4320-004 16 gallon
- 4320-006 30 gallon

### BUNG ADAPTERS:

- 4411-009 Aluminum
- 4411-018 Double Tapped Bushing

### WALL MOUNT BRACKET:

- 4411-008

# PISTON PUMPS

## PANTHER® HP 5:1 PUMPS

### FEATURES:

- Pressure relief on carbon steel models - Built in safety feature reduces premature wear of hoses and seals
- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Extends compressor life
- Built in pump exhaust - Results in quiet operation and eliminates icing
- Stainless steel pump rod - Reduces corrosion and extends seal life
- Double acting pump lower - Delivers consistent fluid flow with greater dispensing accuracy



1130-016

### MODELS AVAILABLE:

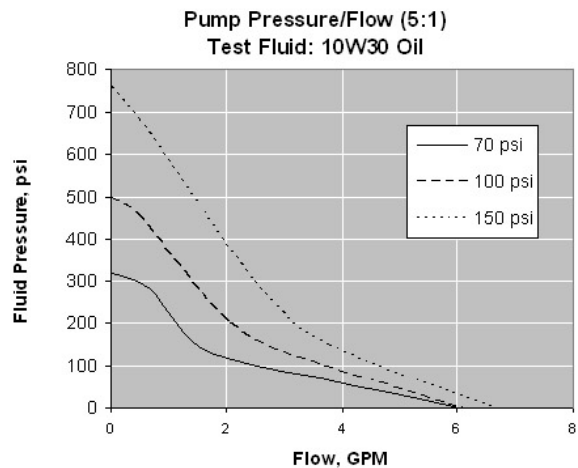
- 1130-016** Carbon Steel Stub
- 1130-018** Carbon Steel Stub Flange Mount
- 1130-021** Carbon Steel Stub with Bung Adapter

### TYPICAL APPLICATIONS:

- Automotive Dealerships
- Quick Lubes
- Transmission Centers
- Tire Centers
- Industrial Plants
- Mining

### SPECIFICATIONS

Eff. diameter	2.50"
Operating air pressure range	10-150 psi
Air consumption (SCFM per gal, 100 psi air)	5.7
Max fluid stall pressure @150 psi air	770 psi
Air inlet NPT(F)	1/4"
Fluid inlet NPT(F)	1" (F) 1-1/2" (M)
Fluid outlet NPT(F)	3/4"
Cycles per gallon	62
Wetted materials	Carbon Steel, Buna, SS, Nickel Plated Steel, Nylon, Ultrathane Zinc Plated Steel
Service bulletin	SB1064



## PANTHER® HP 5:1 OUTFITS



OUTFIT	1131-008	1131-010	1131-014
<b>DESCRIPTION</b>	Wall Mount Outfit	Drum Mount Outfit	16 Gallon Portable Outfit
<b>BARE PUMP</b>	1130-016	1130-016	1130-016
<b>ACCESSORY KIT</b>	4410-022	4410-027	
BUNG ADAPTER	4411-009	4411-009	-
AIR HOSE	8121-003	8121-003	-
FLUID HOSE	8249-005	8249-005	8249-006
SUCTION TUBE OR KIT	4410-034	-	4412-006
WALL MOUNT BRACKET	4411-008	-	-
CONTROL HANDLE	-	-	3330-103
DRUM COVER	-	-	4420-005
DOLLY	-	-	4310-001

## ACCESSORIES (Pg. 18-19)

### SUCTION TUBES:

- 4412-006 1" NPT(M) x 20" for 16 gallon drum
- 4412-008 1" NPT(M) x 26-1/2" for 55 gallon drum
- 4412-012 1" NPT(M) Telescoping - 22 1/2"-42 1/2"

### SUCTION AIR ELIMINATOR/LOW LEVEL CUT-OFF:

- 4411-010 3/4" and/or 1" thread

### PUMP OVER-RUN CONTROL:

- 3241-002 1/4" NPT(F)

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented
- 4412-010 1" NPT(F), includes 22-1/2" Tube

### FILTER REGULATOR LUBRICATOR:

- 3260-049 1/4" NPT(F)

### DOLLY BASES:

- 4310-001 16 gallon
- 4310-003 16 gallon wide track
- 4310-004 55 gallon

### DRUM COVERS:

- 4420-005 16 gallon
- 4420-007 55 gallon

### DRUM CARTS:

- 4320-003 16 gallon/55 gallon
- 4320-004 16 gallon
- 4320-006 30 gallon

### BUNG ADAPTERS:

- 4411-009 Aluminum
- 4411-018 Double Tapped Bushing

### WALL MOUNT BRACKET:

- 4411-008

# PISTON PUMPS

## TIGER® HP 5:1 PUMPS

### FEATURES:

- Pressure relief on carbon steel models - Built in safety feature reduces premature wear of hoses and seals
- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Extends compressor life
- Built in pump exhaust - Results in quiet operation and eliminates icing
- Stainless steel pump rod - Reduces corrosion and extends seal life
- Double acting pump lower - Delivers consistent fluid flow with greater dispensing accuracy



### MODELS AVAILABLE:

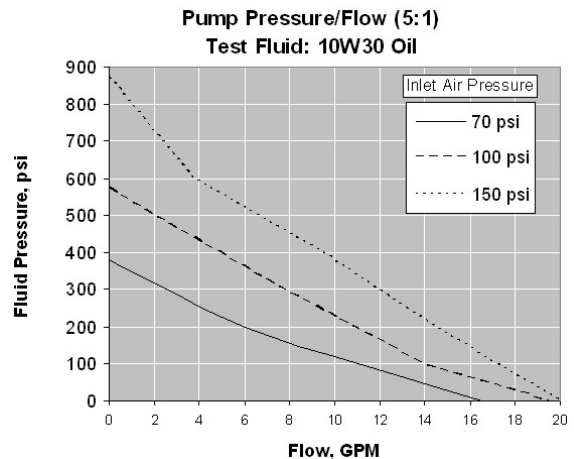
- 1130-019** Carbon Steel Stub
- 1130-025** Carbon Steel Stub Flange Mount
- 1130-026** Carbon Steel Stub with Bung Adapter
- 1160-007** Stainless Steel Stub (Pressure relief not built-in)

### TYPICAL APPLICATIONS:

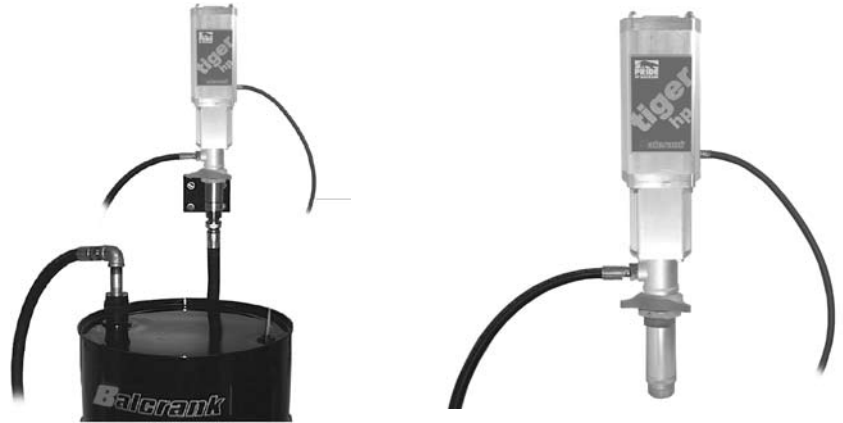
- Automotive Dealerships
- Fleet Service
- Quick Lubes
- Transmission Centers
- Tire Centers
- Industrial Plants
- Mining
- Mobile lube

### SPECIFICATIONS

Eff. diameter	3.20"
Operating air pressure range	40-150 psi
Air consumption (SCFM per gal, 100 psi air)	5.9
Max fluid stall pressure @150 psi air	790 psi
Air inlet NPT(F)	3/8"
Fluid inlet NPT(F)	1" (F) 1-1/2" (M)
Fluid outlet NPT(F)	3/4"
Cycles per gallon	26
Wetted materials	Carbon Steel, Buna, SS, Nickel Plated Steel, Ultrathane Viton, Nylon
Service bulletin	SB1065



## TIGER® HP 5:1 OUTFITS



OUTFIT	1131-054	1131-005
DESCRIPTION	Wall Mount Outfit	Drum Mount Outfit
BARE PUMP	1130-019	1130-019
ACCESSORY KIT	4410-045	4410-017
BUNG ADAPTER	4411-009	4411-009
AIR HOSE	8134-003	8134-003
FLUID HOSE	8261-005	8261-005
SUCTION TUBE OR KIT	4410-034	-
WALL MOUNT BRACKET	4411-008	-

## ACCESSORIES (Pg. 18-19)

### SUCTION TUBES:

- 4412-007 1" NPT(M) x 26-1/2" S/S for 55 gallon drum
- 4412-008 1" NPT(M) x 26-1/2" for 55 gallon drum
- 4412-012 1" NPT(M) Telescoping - 22 1/2"-42 1/2"

### SUCTION AIR ELIMINATOR/LOW LEVEL CUT-OFF:

- 4411-010 3/4" and/or 1" thread

### PUMP OVER-RUN CONTROL:

- 3241-001 1/2" NPT(F)

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented
- 4412-010 1" NPT(F), includes 22-1/2" Tube

### FILTER REGULATOR LUBRICATOR:

- 3260-050 3/8" NPT(F)

### DOLLY BASES:

- 4310-004 55 gallon

### DRUM COVERS:

- 4420-007 55 gallon

### DRUM CARTS:

- 4320-003 16 gallon/55 gallon
- 4320-006 30 gallon

### BUNG ADAPTERS:

- 4411-009 Aluminum
- 4411-017 Nickel Plated

### WALL MOUNT BRACKET:

- 4411-001

### PRESSURE RELIEF:

- 3120-019

# PISTON PUMPS

## LION™ HP 5:1 PUMP

### FEATURES:

- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Extends compressor life
- Built in pump exhaust - Results in quiet operation and eliminates icing
- Stainless steel pump rod - Reduces corrosion and extends seal life
- Double acting pump lower - Delivers consistent fluid flow with greater dispensing accuracy



### MODEL AVAILABLE:

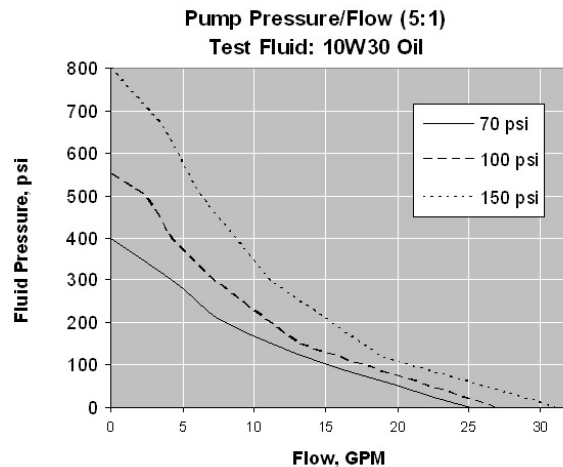
**1130-027** Carbon Steel Stub

### TYPICAL APPLICATIONS:

- Automotive Dealerships
- Fleet Service
- Quick Lubes
- Transmission Centers
- Tire Centers
- Industrial Plants
- Mining
- Mobile lube

### SPECIFICATIONS

Eff. diameter	4.25"
Operating air pressure range	30-150 psi
Air consumption (SCFM per gal, 100 psi air)	5.4
Max fluid stall pressure @150 psi air	800 psi
Air inlet NPT(F)	1/2"
Fluid inlet NPT(F)	1-1/2" (F)
Fluid outlet NPT(F)	3/4"
Cycles per gallon	13
Wetted materials	Carbon Steel, Buna, Brass, Nickel Plated Steel, Aluminum Polyurethane
Service bulletin	SB1073



## LION™ HP 5:1 OUTFIT



### OUTFIT

1131-025

### DESCRIPTION

Wall Mount Outfit

### BARE PUMP

1130-027

### ACCESSORY KIT

4410-037

BUNG ADAPTER

4411-007

AIR HOSE

8144-003

FLUID HOSE

8264-005

SUCTION TUBE

4412-016

SUCTION HOSE

831157

WALL MOUNT BRACKET

4411-001

## ACCESSORIES (Pg. 18-19)

### LOW LEVEL CUT-OFF:

4411-005 1-1/2" thread

### DOLLY BASES:

4310-004 55 gallon

### PUMP OVER-RUN CONTROL:

3241-001 1/2" NPT(F)

### WALL MOUNT BRACKET:

4411-001

### SUCTION CHECK VALVES AND KIT:

4411-015 1" NPT(F)

4412-010 1" NPT(F), includes 22-1/2" Tube

### PRESSURE RELIEF:

3120-019

### FILTER REGULATOR LUBRICATOR:

3260-051 1/2" NPT(F)

# PISTON PUMPS

## LION™ HP 10:1 PUMP

### FEATURES:

- Pressure relief on carbon steel models - Built in safety feature reduces premature wear of hoses and seals
- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Extends compressor life
- Built in pump exhaust - Results in quiet operation and eliminates icing
- Stainless steel pump rod - Reduces corrosion and extends seal life
- Double acting pump lower - Delivers consistent fluid flow with greater dispensing accuracy



### MODEL AVAILABLE:

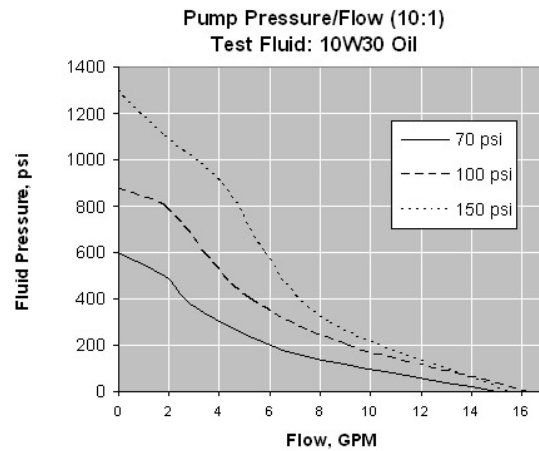
1130-024 Carbon Steel Stub

### TYPICAL APPLICATIONS:

- Automotive Dealerships
- Fleet Service
- Quick Lubes
- Transmission Centers
- Tire Centers
- Industrial Plants
- Mining
- Mobile lube

### SPECIFICATIONS

Eff. diameter	4.25"
Operating air pressure range	30-150 psi
Air consumption (SCFM per gal, 100 psi air)	5.4
Max fluid stall pressure @150 psi air	1,400 psi
Air inlet NPT(F)	1/2"
Fluid inlet NPT(F)	1" (F)
Fluid outlet NPT(F)	3/4"
Cycles per gallon	26
Wetted materials	Carbon Steel, Buna, Brass, Nickel Plated Steel, Aluminum Nylon, Ultrathane, Viton, SS
Service bulletin	SB1073





## LION™ HP 10:1 OUTFITS



**1131-054**



**1131-026**

OUTFIT	1131-054	1131-026
<b>DESCRIPTION</b>	Wall Mount Outfit	Drum Mount Outfit
<b>BARE PUMP</b>	1130-024	1130-024
<b>ACCESSORY KIT</b>	4410-004	4410-014
AIR HOSE	8144-003	8144-003
FLUID HOSE	8264-005	8264-005
SUCTION TUBE	4412-015	-
SUCTION HOSE	8181-006	-
WALL MOUNT BRACKET	4411-001	-

## ACCESSORIES (Pg. 18-19)

### SUCTION TUBES:

- 4412-008 1" NPT(M) x 26-1/2" for 55 gallon drum
- 4412-012 1" NPT(M) Telescoping - 22 1/2"-42 1/2"

### SUCTION AIR ELIMINATOR/LOW LEVEL CUT-OFF:

- 4411-010 3/4" and/or 1" thread

### PUMP OVER-RUN CONTROL:

- 3241-001 1/2" NPT(F)

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented
- 4412-010 1" NPT(F), includes 22-1/2" Tube

### FILTER REGULATOR LUBRICATOR:

- 3260-051 1/2" NPT(F)

### DOLLY BASE:

- 4310-004 55 gallon

### DRUM COVER:

- 4420-007 55 gallon

### DRUM CARTS:

- 4320-003 16 gallon/55 gallon
- 4320-006 30 gallon

### BUNG ADAPTER:

- 4411-007 Steel

### WALL MOUNT BRACKET:

- 4411-001

# PISTON PUMPS

## PUMP ACCESSORIES

### DOLLY BASES:

- 4310-001 16 gallon
- 4310-003 6 gallon wide track
- 4310-004 55 gallon



### DRUM COVERS:

- 4420-005 16 gallon
- 4420-007 55 gallon



### DRUM CARTS:

- 4320-003 16 gallon/55 gallon
- 4320-004 16 gallon
- 4320-006 30 gallon



### BUNG ADAPTERS:

- 4411-007 Steel - Lion 10:1
- 4411-009 Aluminum - Bobcat, Panther, Tiger
- 4411-017 Nickel Plated - Bobcat, Panther, Tiger
- 4411-018 Double Tapped Bushing



### WALL MOUNT BRACKET:

- 4411-001 Tiger, Lion
- 4411-008 Bobcat, Panther



### SUCTION TUBES:

- 4412-006 1" NPT(M) x 20" for 16 gallon drum
- 4412-007 1" NPT(M) x 26-1/2" S/S for 55 gallon drum
- 4412-008 1" NPT(M) x 26-1/2" for 55 gallon drum
- 4412-012 1" NPT(M) Telescoping - 22 1/2"-42 1/2"

### SUCTION AIR ELIMINATOR/LOW LEVEL CUT-OFF:

Prevents air intake when fluid runs out

- 4411-005 1-1/2" thread
- 4411-010 3/4" thread



### PUMP OVER-RUN CONTROL:

- 3241-001 1/2" NPT(F) - Tiger, Lion
- 3241-002 1/4" NPT(F) - Bobcat, Panther



### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented
- 4412-010 1" NPT(F), includes 22-1/2" Tube



## BOBCAT™ 130 KITS

### 4410-009 Spigot & Tube Kit

8121-005	5/16" x 5' Air Hose
3270-003	1/4" Air Coupler
3270-039	Nipple 1/4" NPT(M)
4200-004	3/4" Gooseneck Spigot
4412-008	1" Suction Tube
4411-009	Bung Adapter

### 4410-011 Hose & Tube Kit

8121-003	5/16" x 3' Air Hose
8261-005	3/4" X 5' Fluid Hose
3270-003	1/4" Air Coupler
3270-039	Nipple 1/4" NPT(M)
4412-012	1" Telescoping Tube
4411-009	Bung Adapter

## PANTHER® HP KITS

### 4410-022 Wall Mount Kit

4411-008	Wall Mount Bracket
8121-003	5/16" x 3' Air Hose
8249-005	1/2" x 5' Fluid Hose
4410-034	Suction Kit
828171	Nipple
815312	1" Coupler
4411-009	Bung Adapter
806463	Reducer
3270-003	Coupler
3270-039	Nipple

### 4410-027 Drum Mount Kit

8121-003	5/16" x 3' Air Hose
8249-005	1/2" x 5' Fluid Hose
4411-009	Bung Adapter
806463	Reducer
3270-003	Coupler
3270-039	Nipple

### 4410-034 Suction Kit

8181-006	1" Suction Hose
4411-006	Bung Adapter
827208	Bung Bushing
4411-010	Air Eliminator
4412-015	1" x 5' Suction Tube
819483	90° Elbow
815312	Coupler

## TIGER® HP KITS

### 4410-017 Hose & Tube Kit

8134-003	3/8" x 3' Air Hose
8261-005	3/4" x 5' Fluid Hose
3270-001	3/8" Air Coupler
3270-002	3/8" NPT(M) Nipple
4412-012	1" Telescoping Tube
4411-009	Bung Adapter

### 4410-045 Wall Mount Kit

8134-003	3/8" x 3' Air Hose
8264-005	3/4" x 5' Fluid Hose
4411-008	Wall Mount Bracket
4410-034	Suction Kit
4411-009	Bung Adapter

## LION™ HP KITS

### 4410-004 10:1 Wall Mount Kit

8181-006	1" x 6' Suction Hose
4412-015	1" x 5' Suction Tube
4411-007	Bung Adapter
819483	90° Elbow
4411-001	Wall Mount Bracket
8144-005	1/2" x 5' Air Hose
3270-002	3/8" Air Coupler
3270-001	Air Nipple
827208	Bung Bushing
8264-005	Hose Assembly

### 4410-014 Hose & Tube Kit

8144-003	1/2" x 3' Air Hose
8264-005	3/4" x 6' Fluid Hose
3270-002	3/8" Air Coupler
3270-001	Air Nipple

### 4410-037 5:1 Wall Mount Kit

4411-001	Wall Mount Bracket
831157	1-1/2" x 5' Suction Hose
829143	90° Elbow
3270-002	3/8" Air Coupler
3270-001	Air Nipple
4412-016	Tube

### 4410-039 10:1 Air Control Kit

8144-003	1/2" x 3' Air Hose
3260-051	1/2" FRL with Auto Drain
3270-001	3/8" Air Coupler
3270-002	Air Nipple

# PISTON PUMPS

## PORTABLE DISPENSERS



OUTFIT	1131-029	1131-030
DESCRIPTION	Portable Outfit	Deluxe Portable Outfit With Option for Hose Reel Mounting
BARE PUMP	1130-015	1130-015
ACCESSORIES		
BUNG ADAPTER	4411-009	4411-009
FLUID HOSE	8249-010	8249-010
SUCTION TUBE	4412-008	4412-008
MECHANICAL HANDLE	3330-103	3330-103
FRL	3260-048	3260-048
DOLLY	4310-004	4320-003

## PRESSURIZED DISPENSERS

### LUBE CADDY FEATURES:

- Completely portable, operates independent of air supply
- Tank holds up to 16 gallons of lubricant
- Fill cap and sight gauge
- 6' fluid hose
- Heavy duty wheels and caster
- Recommended option: Air Filter 3260-038 (use nipple 806826)
- Service bulletin SB1052

### MODELS AVAILABLE:

- 1200-001 With Mechanical Handle
- 1200-002 With Electronic Handle
- 1200-003 With Non-metered Handle



## PRESSURIZED DISPENSERS

### WATERSHIELD FEATURES:

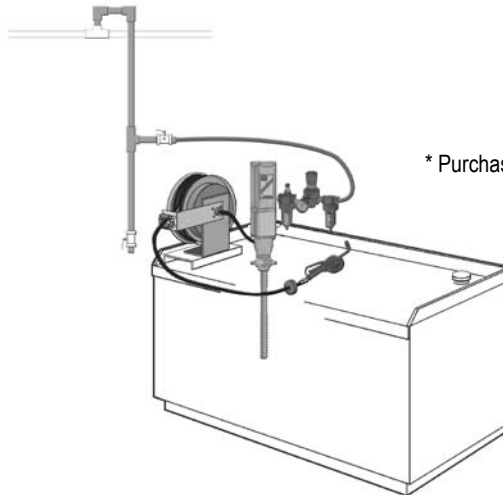
- Completely portable, operates independent of air supply
- Permanently charged
- Sealed air chamber separates air from fluid
- Quiet operation
- 14 gallon capacity
- 10' fluid hose
- Choice of mechanical or non-metered control handle with high flow semi-automatic extensions
- Heavy duty wheels and casters
- Service bulletin SB1048

### MODELS AVAILABLE:

- 1200-004** With Mechanical Handle  
**1200-011** With Non-metered Handle



## TANK PACKAGES KITS\*



\* Purchase tank separately.

OUTFIT	1132-006	1132-009	1132-007	1132-010
<b>DESCRIPTION</b>	3:1 Tank Package	3:1 Tank Package	5:1 Tank Package	5:1 Tank Package
<b>BARE PUMP</b>	1130-015	1130-015	1130-016	1130-016
<b>ACCESSORIES</b>				
BUNG ADAPTER	4411-009	4411-009	4411-009	4411-009
HOSE REEL	2120-011	2120-013	2120-011	2120-013
INLET HOSE	8249-002	8249-002	8249-002	8249-002
MECHANICAL HANDLE	3330-038	3330-038	3330-038	3330-038
FRL	3260-059	3260-059	3260-059	3260-059



# PISTON PUMPS

## ASSEMBLED TANK OUTFITS

### 165 GALLON WORKBENCH

	1134-001	1134-002	1134-003	1134-004
<b>DESCRIPTION</b>	3:1 Tank Package	3:1 Tank Package	3:1 Tank Package	3:1 Tank Package
<b>TANK TYPE</b>	Single Wall	Double Wall	Single Wall	Double Wall
<b>BARE PUMP</b>	1130-015	1130-015	T312	T312
<b>HOSE REEL</b>	2120-013	2120-013	2120-013	2120-013
<b>BARE HANDLE</b>	3330-103	3330-103	3330-103	3330-103
<b>EXTENSION</b>	Flex	Flex	Flex	Flex

### 250 GALLON WORKBENCH

	1134-005	1134-006	1134-007	1134-008
<b>DESCRIPTION</b>	3:1 Tank Package	3:1 Tank Package	3:1 Tank Package	3:1 Tank Package
<b>TANK TYPE</b>	Single Wall	Double Wall	Single Wall	Double Wall
<b>BARE PUMP</b>	1130-015	1130-015	T312	T312
<b>HOSE REEL</b>	2120-013	2120-013	2120-013	2120-013
<b>BARE HANDLE</b>	3330-103	3330-103	3330-103	3330-103
<b>EXTENSION</b>	Flex	Flex	Flex	Flex

### 275 GALLON OBOURD

	1134-009	1134-010	1134-011	1134-012
<b>DESCRIPTION</b>	3:1 Tank Package	3:1 Tank Package	3:1 Tank Package	3:1 Tank Package
<b>TANK TYPE</b>	Single Wall	Double Wall	Single Wall	Double Wall
<b>BARE PUMP</b>	1130-015	1130-015	T312	T312
<b>HOSE REEL</b>	2120-013	2120-013	2120-013	2120-013
<b>BARE HANDLE</b>	3330-103	3330-103	3330-103	3330-103
<b>EXTENSION</b>	Flex	Flex	Flex	Flex



All assembled tank outfits include a 3:1 pump, 30' x 1/2" reel and mechanical control handle.



# MANUAL PUMPS

## STATIONARY PUMPS



OUTFIT	1300-005	1300-010	1300-011	1300-009
DESCRIPTION	ATF Package	Gear Oil Package	Gear Oil Package	Grease Package
MAX PSI	600	600	600	10,000
TIP	Semi-auto	Auto	Auto	Grease Coupler
FLUID HOSE	6'	6'	6'	6'
METER	3120-042	-	3120-042	-
UNIT OF MEASURE	Quart	-	Pint	-
DRUM / KEG SIZE	16 Gallon	16 Gallon	16 Gallon	25-35 Lb
SERVICE BULLETIN	SB 1016	SB 1016	SB 1016	SB 1018

## PORTABLE PUMPS



OUTFIT	1300-014	1300-017	1300-018
DESCRIPTION	ATF Package	Gear Oil Package	Gear Oil Package
MAX PSI	600	600	600
TIP	Semi-auto	Auto	Auto
FLUID HOSE	6'	6'	6'
METER	3120-042	-	3120-042
UNIT OF MEASURE	Quart	-	Pint
DRUM / KEG SIZE	16 Gallon	16 Gallon	16 Gallon
DOLLY	4310-001	4310-001	4310-001
SERVICE BULLETIN	SB 1016	SB 1016	SB 1016



# DIAPHRAGM PUMPS

## DIAPHRAGM PUMPS



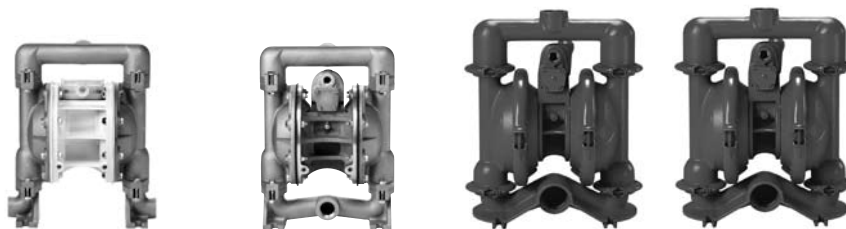
SPECIFICATIONS	1120-016	1120-011	1120-019	1120-013
SIZE	3/8"	1/2"	3/4"	1"
PRESSURE RATIO	1:1	1:1	1:1	1:1
PERFORMANCE				
MAX OPERATING AIR PRESSURE	100 psi	100 psi	100 psi	125 psi
AIR CONSUMPTION	5 SCFM	16 SCFM	16 SCFM	40 SCFM
FREE FLOW	6.8 gpm	14 gpm	14 gpm	35 gpm
MAX SUSPENDED SOLIDS	1/16"	1/16"	1/16"	1/8"
SUCTION LIFT (FT. WET)	11	20	25	25
KEY DIMENSIONS				
AIR INLET NPT(F)	1/4"	3/8"	3/8"	3/8"
FLUID INLET NPT(F)	3/8"	1/2"	3/4"	1"
FLUID OUTLET NPT(F)	3/8"	1/2"	3/4"	1"
MATERIALS				
CONSTRUCTION	Polypropylene	Polypropylene	Aluminum	Aluminum
DIAPHRAGMS	Santoprene	Buna	Buna	Buna
BALL CHECKS	Santoprene	Acetal	Acetal	Acetal
SEATS	Polypropylene	Polypropylene	Aluminum	Aluminum
REFERENCE DATA	SB1068	SB 1060	SB 1051	SB 1046





# DIAPHRAGM PUMPS

## DIAPHRAGM PUMPS



SPECIFICATIONS	1120-014	1120-015	1120-017	1120-018
SIZE	1" Mixing	1" UL	1-1/2"	1-1/2" Spark-free
PRESSURE RATIO	1:1	1:1	1:1	1:1
PERFORMANCE				
MAX OPERATING AIR PRESSURE	125 psi	50 psi	125 psi	125 psi
AIR CONSUMPTION	40 SCFM	20 SCFM	50 SCFM	50 SCFM
FREE FLOW	35 gpm	35 gpm	70 gpm	70 gpm
MAX SUSPENDED SOLIDS	1/8"	1/8"	1/8"	1/8"
SUCTION LIFT (FT. WET)	25	25	25	25
KEY DIMENSIONS				
AIR INLET NPT(F)	3/8"	3/8"	1/2"	1/2"
FLUID INLET NPT(F)	1"	1"	1-1/2"	1-1/2"
FLUID OUTLET NPT(F)	1"	1"	1-1/2"	1-1/2"
MATERIALS				
CONSTRUCTION	Aluminum	Aluminum	Aluminum	Aluminum
DIAPHRAGMS	Buna	Buna	Buna	Buna
BALL CHECKS	Acetal	Acetal	Acetal	Acetal
SEATS	Aluminum	Aluminum	Aluminum	Aluminum
REFERENCE DATA	SB 1058	SB 1059	SB 1069	SB 1070



# DIAPHRAGM PUMPS

## OUTFITS



OUTFIT	1121-001	1121-002	1121-003	1121-004
<b>DESCRIPTION</b>	Evacuation Outfit	Poly Drum Outfit	Aluminum Drum Outfit	Lube Caddy Fill Outfit
<b>BARE PUMP</b>	1120-011	1120-011	1120-012	1120-011
<b>ACCESSORIES</b>				
BUNG ADAPTER	-	Included	Included	-
MOUNTING BRACKET	829131	-	-	-
AIR HOSE	-	-	-	8121-005
FLUID HOSE	832094	-	-	830105
SUCTION TUBE	-	4412-012	4412-013	4412-012
FRL	3260-060	-	-	3260-034



OUTFIT	1121-005	1121-006	1121-007	1121-008
<b>DESCRIPTION</b>	Drum Dispense Outfit	1/2" W/Wash Outfit	WaterShield Refill Outfit	Antifreeze Mixing Outfit
<b>BARE PUMP</b>	1120-012	1120-011	1120-011	1120-014
<b>ACCESSORIES</b>				
BUNG ADAPTER	Included	-	-	-
MOUNTING BRACKET	-	4411-016	-	4411-016
AIR HOSE	-	8132-005	8121-005	8121-005
FLUID HOSE	-	831116	830105	831820
SUCTION TUBE	4412-013	831179	4412-013	831821
FRL	-	3260-060	3260-034	3260-034
SPIGOT	4200-007	-	-	-

## OUTFITS



OUTFIT	1121-009	1121-010	4140-002
<b>DESCRIPTION</b>	Antifreeze Outfit	3/8" W/Wash Outfit	Manifold Evac Outfit
<b>BARE PUMP</b>	1120-013	1120-016	-
<b>ACCESSORIES</b>			
MOUNTING BRACKET	4411-016	4411-016	-
AIR HOSE	8121-005	8121-005	8134-003
FLUID HOSE	831820	-	827600
SUCTION TUBE	831821	832380	-
FRL	3260-034	3260-060	-
SUCTION WAND	-	-	824249
MANIFOLD	-	-	824252

## ACCESSORIES

**SUCTION TUBES:**

- 4412-012 55 gallon drum poly assembly with bung adapter
- 4412-013 55 gallon drum aluminum assembly with bung adapter

**PRESSURE RELIEF KITS:**

- 3120-023 1/2" NPT, 125 psi
- 3120-024 1" NPT, 125 psi

**WALL MOUNT BRACKET:**

- 4411-016

# DIAPHRAGM PUMPS

## OVERFILL PREVENTION



OUTFIT	4520-001	4520-002
DESCRIPTION	Overfill Prevention	Overfill Prevention
FEATURES	Auto-shutoff Non-electric Sensing Tube Pump Controller -	Auto-shutoff Non-electric Sensing Tube Pump Controller Audible Alarm
	SB 4222	SB 4222



## ACCESSORY KITS

4410-019	1" Wall Mount Kit	4410-020	1/2" Wall Mount Kit	4140-015	Evacuation Kit
4411-016	Wall Mount Bracket	4411-016	Wall Mount Bracket	4411-016	Wall Mount Bracket
8134-003	3/8" x 3' Air Hose	8134-003	3/8" x 3' Air Hose	8134-003	3/8" x 3' Air Hose
8264-005	3/4" x 5' Fluid Hose (2)	8249-005	1/2" x 5' Fluid Hose	8264-005	3/4" x 5' Fluid Hose (2)
3230-006	3/8" Ball Valve	3230-003	1/4" Ball Valve	3230-006	3/8" Ball Valve
				8261-003	3/4" Suction Hose



# GREASE PUMPS

# GREASE PUMPS

## JET POWER™ 50:1 PUMPS

### FEATURES:

- Simple design - Few moving parts, detachable external air valve
- Mechanical driven air valve - More reliable, no stalling
- Low air consumption - Less wear and tear on compressor
- Precise machined finishes and hardened lower piston assembly - For reliable performance and long life
- Heavy duty pump lower - Produces 50:1 output pressure and accepts a 40-mesh inlet screen to remove foreign contaminants

### MODELS AVAILABLE:

- 1150-004** Bare Pump - 25-35 lb
- 1150-012** Bare Pump - 120 lb
- 1150-013** Bare Pump - 400 lb

### TYPICAL APPLICATIONS:

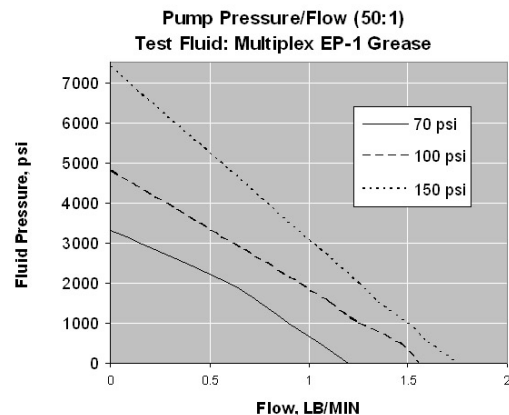
- High pressure, low volume
- 1 dispense handle operation
- Automotive Dealerships
- Quick Lubes
- Service Repair Shops
- Portable Dispensers

### SPECIFICATIONS:

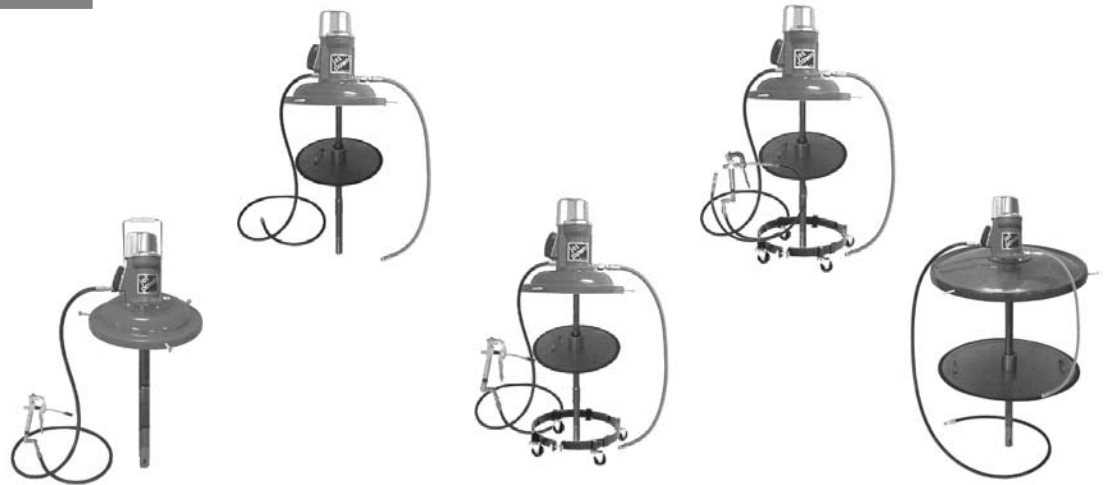
Pressure ratio	50:1
Eff. diameter	2.62"
Stroke	2.12"
Operating air pressure range	30-150 psi
Air consumption (SCFM per lb, 100 psi air)	6.5
Max delivery (free flow @ 100 psi)	2.0 lb/min
Air inlet NPT(F)	1/4"
Fluid outlet NPT(F)	3/8"
Service bulletin	SB1075



1150-012



## OUTFITS



OUTFIT	1151-014	1151-015	1151-016	1151-013	1151-017
<b>DESCRIPTION</b>	25-35 lb Portable	120 lb Stationary	120 lb Portable	120 lb Portable	400 lb Stationary
<b>BARE PUMP</b>	1150-004	1150-012	1150-012	1150-012	1150-013
<b>ACCESSORY KIT</b>		4410-031	4410-031	4410-031	4410-029
AIR HOSE	-	8132-003	8132-003	8132-003	8132-003
FLUID HOSE	8331-007	8331-007	8331-007	8331-007	8323-007
GREASE HANDLE	3310-026	-	3310-026	3310-028	-
DRUM COVER	4420-006	4420-002	4420-002	4420-002	4420-004
FOLLOWER PLATE	-	4440-010	4440-010	4440-010	4440-011
DOLLY	-	-	4310-001	4310-001	-

## ACCESSORIES

### DOLLY BASES:

4310-005	25-35 lb
4310-001	120 lb
4310-003	120 lb wide track
4310-004	400 lb

### DRUM COVERS:

4420-006	25-35 lb
4420-002	120 lb
4420-004	400 lb

### DRUM CARTS:

4320-003	120 lb/400 lb
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### PUMP OVER-RUN CONTROL:

3241-002	1/4" NPT(F)
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### FOLLOWER PLATES:

4440-006	25-35 lb tapered pail
4440-002	120 lb
4440-001	400 lb
4440-010	120 lb
4440-011	400 lb

### INLET SCREEN:

4430-001
----------

# GREASE PUMPS

## PANTHER HP® 50:1 PUMPS

### FEATURES:

- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Less wear and tear on the compressor
- Built in pump exhaust - Promotes quiet operation, eliminates icing
- Precise machined finishes and hardened lower piston assembly - For reliable performance and long life
- Double acting pump lower - Produces 50:1 output pressure and accepts a 40-mesh inlet screen to remove foreign contaminants

### MODELS AVAILABLE:

- 1150-009** Bare Pump - 25-35 lb
- 1150-010** Bare Pump - 120 lb
- 1150-011** Bare Pump - 400 lb
- 1150-017** Bare Pump - Tote

### TYPICAL APPLICATIONS:

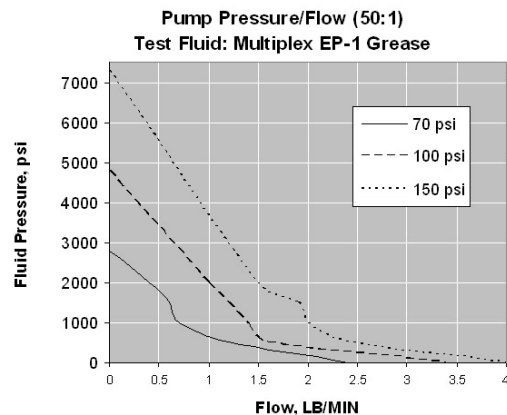
- High pressure, medium volume
- 1-3 dispense handles simultaneously
- Automotive Dealerships
- Fleet Service Facilities
- Service Repair Shops
- Portable Dispensers
- Lube Trucks
- Industrial
- Mining

### SPECIFICATIONS:

Pressure ratio	50:1
Eff. diameter	2.44"
Stroke	3.25"
Operating air pressure range	40-150 psi
Air consumption (SCFM per lb, 100 psi air)	18.5
Max delivery (free flow @ 100 psi)	3.5 lb/min
Air inlet NPT(F)	1/4"
Fluid outlet NPT(F)	1/4"
Service bulletin	SB1063

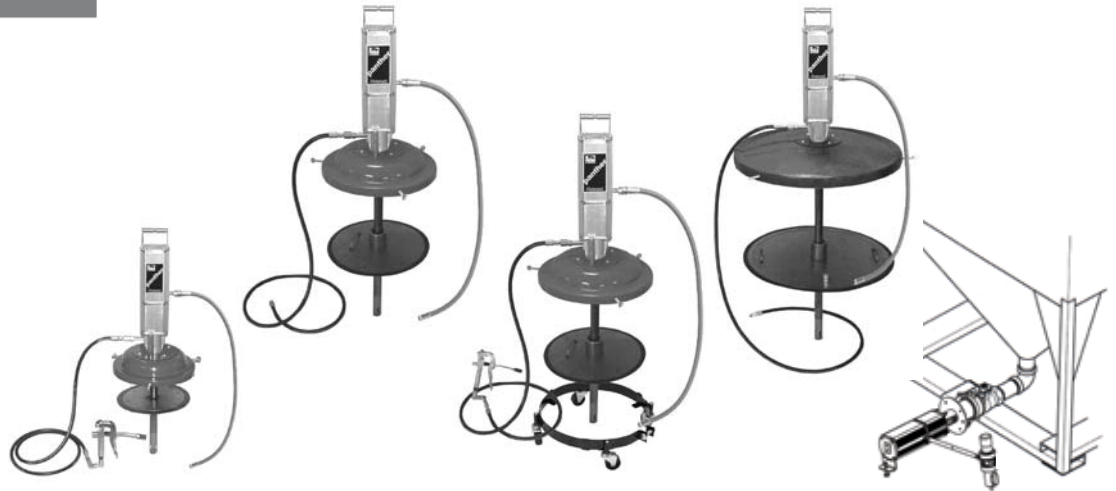


1150-010





## OUTFITS



OUTFIT	1151-003	1151-004	1151-005	1151-006	1151-020
<b>DESCRIPTION</b>	25-35 lb Portable	120 lb Stationary	120 lb Portable	400 lb Stationary	Tote
<b>BARE PUMP</b>	1150-009	1150-010	1150-010	1150-011	1150-017
<b>ACCESSORY KIT</b>	4410-035	4410-036	4410-035	4410-036	-
AIR HOSE	-	8132-003	8132-003	8132-003	-
FLUID HOSE	8331-007	8331-007	8331-007	8331-007	-
GREASE HANDLE	3310-026	-	3310-026	3310-028	-
DRUM COVER	4420-008	4420-009	4420-009	4420-004	-
FOLLOWER PLATE	-	4440-008	4440-008	4440-009	-
DOLLY	-	-	4310-001	-	-
FRL	-	-	-	-	3260-034

## ACCESSORIES

### DOLLY BASES:

4310-005	25-35 lb
4310-001	120 lb
4310-003	120 lb wide track
4310-004	400 lb

### DRUM COVERS:

4420-008	25-35 lb
4420-009	120 lb
4420-004	400 lb

### DRUM CARTS:

4320-003	120 lb/400 lb
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### PUMP OVER-RUN CONTROL:

3241-002	1/4" NPT(F)
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### FOLLOWER PLATES:

4440-007	25-35 lb
4440-008	120 lb
4440-009	400 lb

### INLET SCREEN:

4430-004
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### AIR OPERATED PUMP LIFT:

4450-001	Lift
4451-001	Valve

# GREASE PUMPS

## LION™ HP 50:1 PUMPS

### FEATURES:

- Mechanical driven air valve - More reliable, no stalling
- Designed for lower air consumption - Less wear and tear on the compressor
- Built in pump exhaust - Promotes quiet operation, eliminates icing
- Precise machined finishes and hardened lower piston assembly - For reliable performance and long life
- Double acting pump lower - Produces 50:1 output pressure and accepts a 40-mesh inlet screen to remove foreign contaminants

### MODELS AVAILABLE:

**1150-015** Bare Pump - 400 lb

**1150-018** Bare Pump - Tote

### TYPICAL APPLICATIONS:

High pressure, heavy volume

1-6 dispense handles simultaneously

Automotive Dealerships

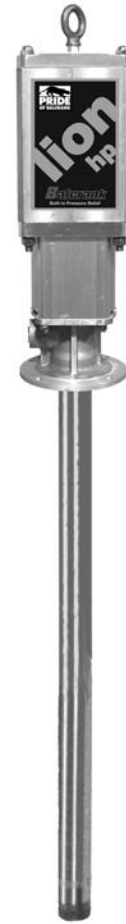
Heavy Fleet Service Facilities

Service Repair Shops

Lube Trucks

Industrial

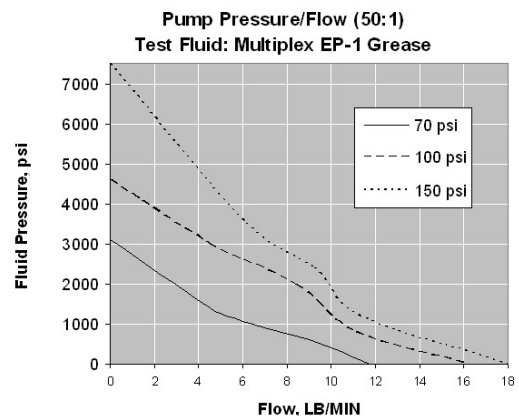
Mining



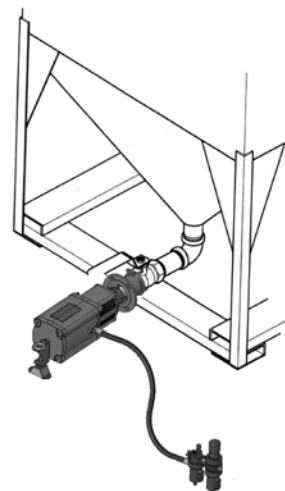
1150-015

### SPECIFICATIONS:

Pressure ratio	50:1
Eff. diameter	4.25"
Stroke	3.25"
Operating air pressure range	10-150 psi
Air consumption (SCFM per lb, 100 psi air)	14.7
Max delivery (free flow @ 100 psi)	16 lb/min
Air inlet NPT(F)	1/2"
Fluid outlet NPT(F)	3/8"
Service bulletin	SB1074



## OUTFITS



OUTFIT	1151-018	1151-022
DESCRIPTION	400 lb Stationary	Tote
BARE PUMP	1150-015	1150-018
ACCESSORY KIT	4410-030	-
AIR HOSE	8134-003	-
FLUID HOSE	8333-005	-
DRUM COVER	4420-003	-
FOLLOWER PLATE	4440-012	-
FRL	-	3260-051

## ACCESSORIES

### DOLLY BASE:

4310-004 400 lb

### DRUM COVER:

4420-003 400 lb

### DRUM CART:

4320-003 120 lb/400 lb

### PUMP OVER-RUN CONTROL:

3241-001 1/2" NPT(F)

### FOLLOWER PLATE:

4440-012 400 lb

### INLET SCREEN:

4430-003

### AIR OPERATED PUMP LIFT:

4450-001 Lift  
4451-001 Valve

# GREASE PUMPS

## GREASE INDUCTORS

### FEATURES:

- Handles thicker #3 and #4 greases more easily than follower plate models
- Conical shaped inductor allows for better flow to pump inlet
- Inductor mounted pump applies weight to allow for better grease flow to pump inlet
- Eliminates contamination of pump and inductor plate when changing drum

### MODELS AVAILABLE:

- 1151-009** Panther HP Inductor  
**1151-010** Lion HP Inductor  
**1151-011** Panther HP Inductor with Low Level Shutoff  
**1151-012** Lion HP Inductor with Low Level Shutoff

NOTE: Low level shutoff models recommended for remote pump room applications



1151-009



1151-010



## JET POWER™ KITS

4410-029	Hose Kit 400 lb	4410-031	Hose Kit 120 lb
8132-003	3/8" x 3' Air Hose	8132-003	3/8" x 3' Air Hose
8323-007	1/4" X 7' Fluid Hose	8331-007	3/8" X 7' Fluid Hose
812110	Swivel/Union	812111	Swivel/Union

## PANTHER® HP KITS

4410-035	Hose Kit	4410-036	Hose Kit
8132-003	3/8" x 3' Air Hose	8132-003	3/8" x 3' Air Hose
8331-007	3/8" x 7' Fluid Hose	8331-007	3/8" x 7' Fluid Hose
3270-003	1/4" Air Coupler	3270-003	1/4" Air Coupler
3270-004	Nipple	3270-004	Nipple
3310-026	Grease Handle		

## LION® HP KITS

4410-030	Hose Kit 400 lb
8134-003	3/8" x 3' Air Hose
8333-005	3/8" x 5' Fluid Hose
3270-001	Coupler
3270-002	Nipple

# MOBILE LUBE EQUIPMENT

## MOBILE OIL OUTFITS

OUTFIT	7120-018	7120-017	7120-001
DESCRIPTION	Panther® HP 3:1 Outfit	Tiger® HP 5:1 Outfit	Lion™ HP 10:1 Outfit
BARE PUMP	1130-017	1130-025	1130-024
ACCESSORIES			
AIR HOSE	8132-005	8144-005	8144-005
FLUID HOSE	8262-010	8261-010	810659
SUCTION TUBE	4412-008	4412-008	4412-008
DRUM COVER	7120-012	7120-012	-
DRUM SIZE	55 gallon	55 gallon	55 gallon
HOLD DOWN RODS	7120-004	7120-004	7120-004

## MOBILE GREASE OUTFITS

OUTFIT	7120-022	7120-015	7120-016	7120-014
DESCRIPTION	Jet Power™ 50:1 Outfit	Panther® HP 50:1 Outfit	Panther® HP 50:1 Outfit	Lion™ HP 50:1 Outfit
BARE PUMP	1150-001	1150-010	1150-011	1150-015
ACCESSORIES				
AIR HOSE	8132-005	8132-005	8132-005	8144-005
FLUID HOSE	8331-010	8331-005	8331-010	8331-010
DRUM COVER	4420-004	7120-020	4420-004	7120-012
KEG SIZE	400 lb	120 lb	400 lb	400 lb
HOLD DOWN RODS	7120-004	7120-005	7120-004	7120-004

## MOBILE DRUM COVERS

MODEL	7120-012	7120-020	7120-013
PUMP SERIES	Panther®, Tiger®, Lion™	Jet Power™	Panther®, Tiger®, Lion™
LUBRICANT	Oil	Grease	Grease
HOLE	Offset	Center	Center
DRUM SIZE	55 gallon	120 lb	400 lb

## HOLD DOWN RODS

MODEL	7120-004	7120-005
DRUM SIZE	400 lb	120 lb

## HOLD DOWN ROD SET

MODEL	7120-008
PUMP SERIES	Jet Power™
DRUM SIZE	120 lb

# REPAIR KITS

## BOBCAT™ PUMPS

- 827711** - Air valve and seals kit for all Bobcat™ 130 & 300 pumps.
- 827712** - Fluid seals kit for Bobcat™ 300 pumps.
- 828069** - Fluid seals kit for Bobcat™ series pumps 1110-001, 1110-003, 1110-004.
- 828070** - Fluid seals kit for 1160-002 & 1160-003 Bobcat™ series stainless pumps.
- 900020** - Fluid seals kit for 1110-005 & 1110-006 Bobcat™ 130 pumps.

## JET POWER™ PUMPS

- 811305** - For Jet Power™ 45:1 grease pumps, converts 45:1 to 50:1 pumps below serial #267561.
- 816348** - For Jet Power™ 45:1 grease pumps, converts 45:1 to 50:1 pumps serial #267561 and above
- 822862** - For 1130-002, 42101, 42104, Jet Power™ 4:1 Fluid Pumps.
- 810071** - Air Valve Kit for Jet Power™ 4:1 Fluid Pumps and 50:1 Grease Pumps.

## PANTHER® HP PUMPS

- 831014** - Complete air motor for Panther® Series pumps 1130-010 & 1130-011.
- 831614** - Complete air motor for Panther® HP Series pumps.
- 900009** - Fluid seals kit for Panther® 1130-010 pumps.
- 900010** - Fluid seals kit for Panther® 1130-011 pumps.
- 900011** - Air motor repair kit for 1130-010 & 1130-011 Panther® pumps with Delrin inserts.
- 900014** - Air motor repair kit for 1130-010 & 1130-011 Panther® pumps without Delrin inserts.
- 900015** - Air motor repair kit for Panther® grease pumps 1150-006, 1150-007, & 1150-008. (Does not include piston.)
- 900016** - Repair kit for lower assembly for Panther® grease pumps 1150-006, 1150-007, & 1150-008.
- 900019** - Air motor repair kit for 1130-015 & 1130-016 Panther® pumps.
- 900020** - Fluid seals kit for Panther® 1130-015 pumps.
- 900021** - Fluid seals kit for Panther® 1130-016 pumps.
- 900022** - Repair kit for lower assembly for Panther® grease pumps 1150-009, 1150-010, & 1150-011.

## TIGER® HP PUMPS

- 826280** - Air seals kit for Tiger® pumps.
- 826290** - Fluid seals kit for Tiger® pumps.
- 829298** - Fluid seals kit for Tiger® Stainless Steel pumps.
- 900020** - Fluid seals kit for Tiger® HP pumps.
- 900027** - Air Motor kit for Tiger® HP pumps.
- 900028** - Soft Parts kit for Tiger® HP pumps.

## GIANT JET™ PUMPS

- 828045** - Air and fluid seals kit for 1130-009 Giant Jet™ 5:1 pumps.
- 829604** - Air motor seals kit for 1150-002 Giant Jet™ grease pumps above serial #262403.
- 829605** - Fluid seals kit for 1150-002, 963, 1063, & 1064 Giant Jet™ pumps.
- 900001** - Air motor seals kit for 5:1 and 10:1 Giant Jet™ pumps.
- 900002** - Fluid seals kit for 1130-008 10:1 Giant Jet™ pumps.

## LION® HP PUMPS

- 900020** - Fluid seals kit for Lion® HP@10:1 pumps.
- 900027** - Air Motor kit for Lion® HP pumps.
- 900028** - Soft Parts kit for Lion® HP pumps.
- 900029** - Fluid seals kit for Lion® HP 5:1 pumps.

## DIAPHRAGM PUMPS

- 828863** - Fluid kit for 1120-006 & 1120-010 pumps.
- 828864** - Fluid kit for 1120-007, 1120-008, and 1120-009 pumps.
- 828866** - Air kit for 1120-006 & 1120-010 pumps.
- 828867** - Air kit for 1120-007, 1120-008, 1120-009 pumps.
- 831589** - Air kit for 1120-011 and 1120-012 pumps.
- 831590** - Air kit for 1120-013, 1120-014, and 1120-015 pumps.
- 831591** - Fluid kit for 1120-011 and 1120-012 pumps.
- 831592** - Fluid kit for 1120-013, 1120-014, and 1120-015 pumps.

For a complete list of all Balcrank repair kits see the Technical Support section of [www.balcrank.com](http://www.balcrank.com).

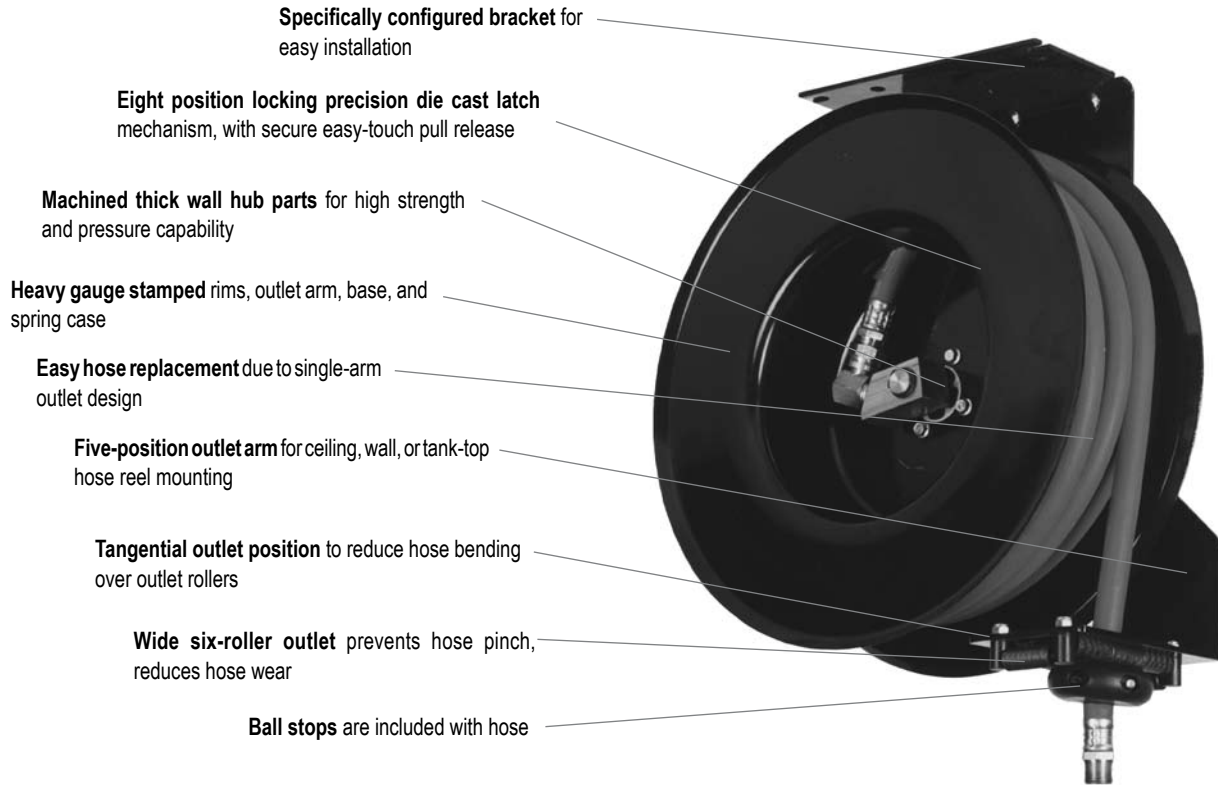


# Hose Reels

# HOSE REELS

## SIGNATURE™ SERIES

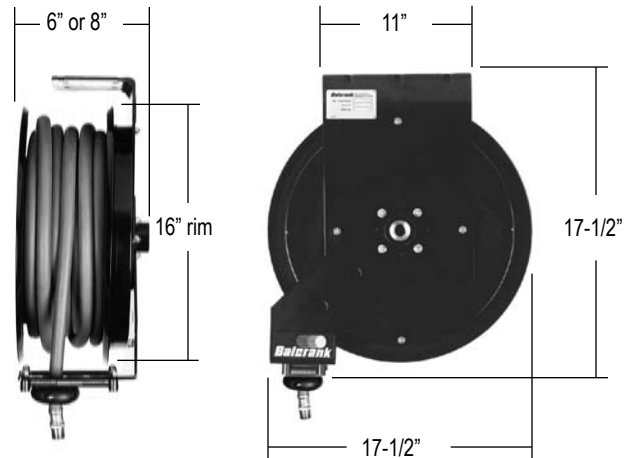
### FEATURES



### BENEFITS

- Easy to install  
Compact design to fit small spaces  
Ceiling, wall, tank mount, cabinet or mobile lube
- Proven design  
Excess spring torque assures a reliable hose return  
Power spring is designed for high reliability
- Built to last  
Thick wall fluid swivel and hub  
Heavy gauge stamped rims, arms, and base  
Wide-beam structural design for stiffness
- Full range of model choices  
30-, 40-, and 50- ft hose lengths available  
Styles for air, water, oil, and grease  
Custom powder coat paint colors available (Pg. 45)

### DIMENSIONS



Reference SB2002





## SIGNATURE™ SERIES

### AIR/WATER/COOLANT/WW

3/8" Hose: Max. WP - 300 psi

Outlet Thread - 1/4" NPT(M)

1/2" Hose: Max. WP - 300 psi

Outlet Thread - 1/2" NPT(M)

\*\* Nitrogen Green Hose: Max. WP - 250 psi

Outlet Thread - 1/4" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
<b>2120-014</b>	30' x 3/8"	2120-016	8134-030	8141-002 <sup>(1)(2)</sup>
<b>2120-005</b>	40' x 3/8"	2120-016	8134-040	8141-002 <sup>(1)(2)</sup>
<b>2120-015</b>	50' x 3/8"	2120-017	8134-050	8141-002 <sup>(1)(2)</sup>
<b>2120-021*</b>	30' x 3/8"	2120-016	8134-030	8141-002 <sup>(1)(2)</sup>
<b>2120-020</b>	50' x 1/2"	2120-017	8141-050	8141-002 <sup>(1)(2)</sup>
<b>2120-025**</b>	30' x 3/8"	2120-016	8135-030	8141-002 <sup>(1)(2)</sup>

### OIL, ATF

1/2" Hose: Max. WP - 3,000 psi

Outlet Thread - 1/2" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
<b>2120-011</b>	30' x 1/2"	2120-016	8241-030	8249-002 <sup>(1)(2)</sup>
<b>2120-012</b>	40' x 1/2"	2120-016	8241-040	8249-002 <sup>(1)(2)</sup>
<b>2120-013</b>	50' x 1/2"	2120-017	8241-050	8249-002 <sup>(1)(2)</sup>
<b>2120-022*</b>	16' x 1/2"	2120-016	8241-016	8249-002 <sup>(1)(2)</sup>

### GREASE

1/4" Hose: Max. WP - 5,000 psi

Outlet Thread - 1/4" NPT(M)

3/8" Hose: Max. WP - 4,000 psi

Outlet Thread - 1/4" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
<b>2120-001</b>	30' x 1/4"	2120-018	8321-030	8332-002 <sup>(1)</sup>
<b>2120-002</b>	40' x 1/4"	2120-018	8321-040	8332-002 <sup>(1)</sup>
<b>2120-006</b>	50' x 1/4"	2120-019	8321-050	8332-002 <sup>(1)</sup>
<b>2120-003</b>	30' x 3/8"	2120-018	8331-030	8332-002 <sup>(1)</sup>
<b>2120-004</b>	40' x 3/8"	2120-018	8331-040	8332-002 <sup>(1)</sup>
<b>2120-007</b>	50' x 3/8"	2120-019	8331-050	8332-002 <sup>(1)</sup>

### DIESEL FUEL

3/4" Hose: Max. WP - 50 psi

Outlet Thread - 3/4" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
<b>2120-024</b>	30' x 3/4"	2120-027	8466-030	8466-002

### BARE REELS

Model Number	Max Hose Capacity		Bare Reel WP (psi)	Thread Size NPT(F)		Reel Dimensions		
	Lgth.	Dia.		Inlet	Outlet	L	W	H
<b>2120-016</b>	40'	1/2"	3,000	1/2"	1/2"	16"	6"	17.5"
<b>2120-017</b>	50'	1/2"	3,000	1/2"	1/2"	16"	8"	17.5"
<b>2120-018</b>	40'	3/8"	5,000	3/8"	1/4"	16"	6"	17.5"
<b>2120-019</b>	50'	3/8"	5,000	3/8"	1/4"	16"	8"	17.5"
<b>2120-027</b>	30'	3/4"	3,000	3/4"	3/4"	16"	8"	17.5"

\* Signature™ Series Reels less Outlet Arm for workbench mounting.

(1).... Inlet hoses are not included with Signature™ Series Open Hose Reels.  
Be sure to order inlet hoses separately.

(2).... Use 90° swivel union model 3270-051.

**Roller Outlet Kits** - For use on Signature™ Series Reels without outlet arms mounted in workbenches.

831372 - 4 roller kit

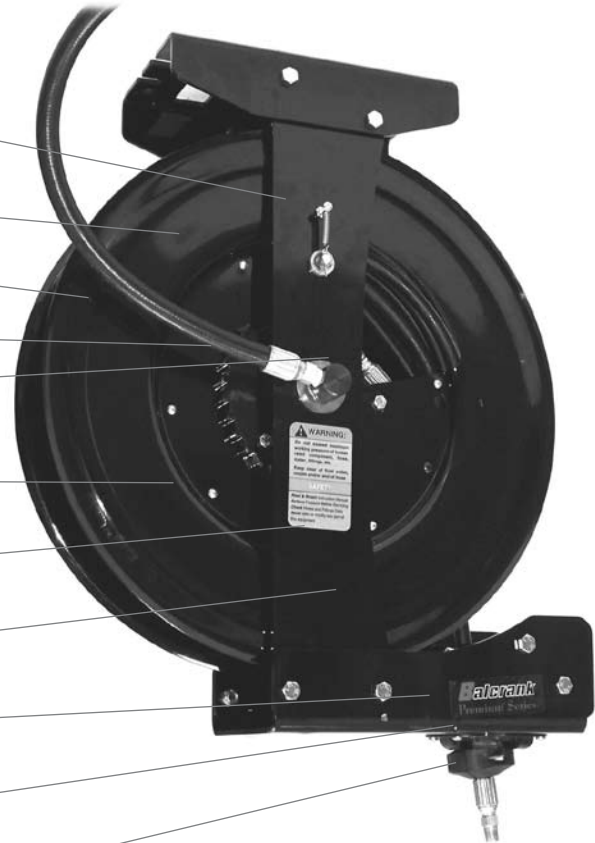
831315 - 6 roller kit

# HOSE REELS

## PREMIUM™ SERIES

### FEATURES

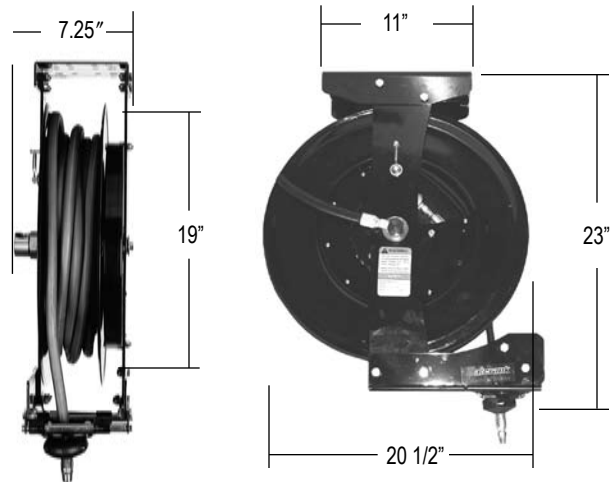
- 16-position locking heavy duty cast latch mechanism** with secure easy-touch pull release
- Heavy gauge stamped rims** and plate steel structural parts
- Machined thick wall hub** parts for strength and high pressure capability
- Ready to install:** a 2 ft. inlet hose is included with each complete reel
- Dual outlet arm** for strength and rigidity
- Spool supported on both sides** by a unitized heavy duty frame and long-life journal bearings.
- Powder coated for corrosion resistance;** custom colors available
- Adjustable outlet arm** for ceiling, wall, or tank-top reel mounting
- Sliding roller outlet** prevents hose stack-up
- Circular, six-roller outlet** prevents hose pinch, reduces hose wear
- Ball stops** are included with hose



### BENEFITS

- Dependable performance
  - Excess spring torque assures a reliable hose return
  - Power spring is designed for high reliability
  - Full flow porting through the hub
  - Durable, heavy duty latch mechanism
  - Six-roller outlet protects against hose pinch
- Heavy duty design
  - Thick wall swivel hub.
  - Double journal bearings
  - Heavy gauge stamped rims
  - Structural plate steel frame
  - Double side arm support
  - High-strength roller outlet
- Full range of model choices
  - 40-, 50-, and 60- ft hose lengths available
  - Styles for air, water, oil, and grease
  - Custom powder coat paint colors available (Pg. 45)
  - Ceiling, wall, tank mount, or mobile lube

### DIMENSIONS



Reference SB2001



## PREMIUM™ SERIES

### AIR/WATER/COOLANT/WW

3/8" Hose: Max. WP - 300 psi

Outlet Thread - 1/4" NPT(M)

1/2" Hose: Max. WP - 300 psi

Outlet Thread - 1/2" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
2111-014	40' x 3/8"	2111-024	8134-040	8141-002
2111-015	50' x 3/8"	2111-023	8134-050	8141-002
2111-016	60' x 3/8"	2111-023	8134-060	8141-002
2111-018	40' x 1/2"	2111-024	8141-040	8141-002
2111-019	50' x 1/2"	2111-022	8141-050	8141-002
2111-020	60' x 1/2"	2111-022	8141-060	8141-002

### OIL/ATF

1/2" Hose: Max. WP - 3,000 psi

Outlet Thread - 1/2" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
2111-010	40' x 1/2"	2111-024	8241-040	8249-002
2111-011	50' x 1/2"	2111-022	8241-050	8249-002
2111-012	60' x 1/2"	2111-022	8241-060	8249-002

### GREASE

1/4" Hose: Max. WP - 5,000 psi

Outlet Thread - 1/4" NPT(M)

3/8" Hose: Max. WP - 4,000 psi

Outlet Thread - 1/4" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
2111-002	40' x 1/4"	2111-025	8321-040	8332-002
2111-003	50' x 1/4"	2111-021	8321-050	8332-002
2111-004	60' x 1/4"	2111-021	8321-060	8332-002
2111-006	40' x 3/8"	2111-025	8331-040	8332-002
2111-007	50' x 3/8"	2111-021	8331-050	8332-002
2111-008	60' x 3/8"	2111-021	8331-060	8332-002

### BARE REELS

Model Number	Max Hose Capacity		Bare Reel WP (psi)	Thread Size NPT(F)		Reel Dimensions		
	Lgth.	Dia.		Inlet	Outlet	L	W	H
2111-021	60'	3/8"	8,000	3/8"	1/4"	19"	7.5"	23"
2111-022	60'	1/2"	3,000	1/2"	1/2"	19"	7.5"	23"
2111-023 <sup>(1)</sup>	60'	1/2"	3,000	1/2"	1/2"	19"	7.5"	23"
2111-024	40'	1/2"	3,000	1/2"	1/2"	19"	7.5"	23"
2111-025	40'	3/8"	8,000	3/8"	1/4"	19"	7.5"	23"

(1).... Air/Water applications only.

# HOSE REELS

## PREMIUM™ EV SERIES

### FEATURES

**16-position locking heavy duty cast latch mechanism, with secure easy-touch pull release**

**Heavy gauge stamped rims**

**Machined thick wall swivel and hub parts for high strength and pressure toughness**

**Plate steel structural parts for strength and rigidity**

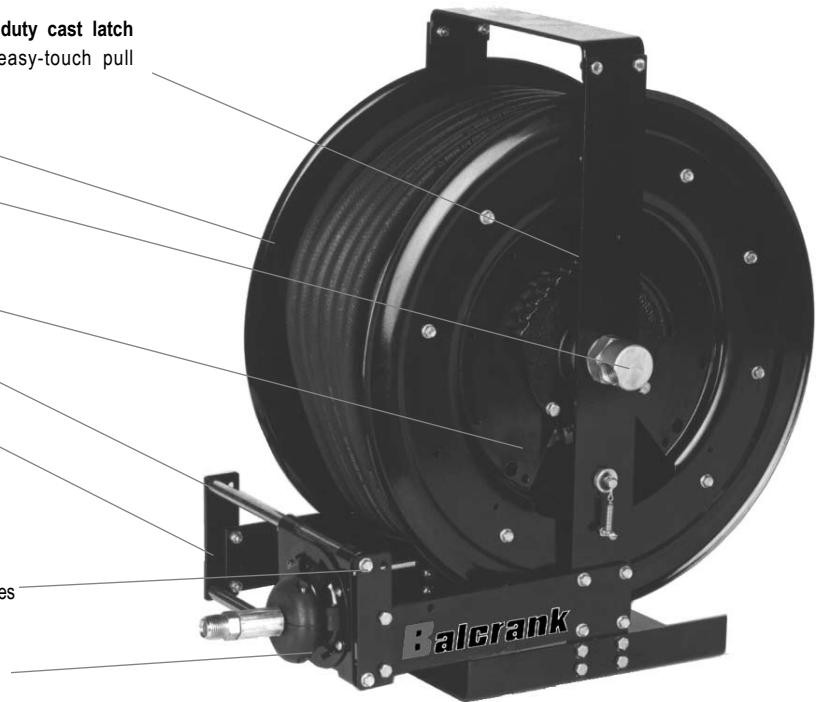
**Tangential outlet arm to reduce hose bending over outlet rollers**

**Adjustable outlet arm for ceiling, wall, or tank-top reel mounting**

**Sliding roller outlet prevents hose stack-up**

**Circular, 6-roller outlet prevents hose pinch, reduces hose wear**

**Ball stops are included with hose**



### AIR/WATER/COOLANT/WW

3/4" Hose: Max. WP - 300 psi

Outlet Thread - 3/4" NPT(M)

1" Hose: Max. WP - 250 psi

Outlet Thread - 1" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
<b>2310-013</b>	70' x 3/4"	2310-001	8161-070	8266-002
<b>2310-010</b>	50' x 1"	2310-001	8181-050	8181-002

### OIL, ATF

3/4" Hose: Max. WP - 1,250 psi

Outlet Thread - 3/4" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
<b>2310-007</b>	50' x 3/4"	2310-001	8263-050	8266-002
<b>2310-008</b>	60' x 3/4"	2310-001	8263-060	8266-002

### DIESEL FUEL

3/4" Hose: Max. WP - 50 psi

Outlet Thread - 3/4" NPT(M)

1" Hose: Max. WP - 50 psi

Outlet Thread - 1" NPT(M)

Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
<b>2310-014</b>	50' x 3/4"	2310-001	8466-050	8466-002
<b>2310-016</b>	50' x 1"	2310-001	8481-050	8481-002

### BARE REEL

Model Number	Max Hose Capacity		Bare Reel WP (psi)	Thread Size NPT(F)		Reel Dimensions		
	Lgth.	Dia.		Inlet	Outlet	L	W	H
<b>2310-001</b>	50'	1"	3,000	1"	1"	19.25"	14"	24.5"

Reference SB2004

## ENCLOSED HOSE REELS

### FEATURES AND BENEFITS

- 30' to 60' styles of Signature™ and Premium™ Series available
- All steel cabinet has high quality, powder coat finish prevents corrosion
- Custom paint colors available upon request to match lifts and work benches
- All-directional hose outlets prevent hose pinch
- Strong, rigid steel mounting structure
- Inlet hoses and ball stops are included tfor quick and easy installation



Side enclosure panels and reel inlet hoses are included with all Deluxe cabinet reels; model choices are listed in the table below. Refer to page 46 to select end panels and mounting accessories. Reference SB2009.

### AIR/WATER/COOLANT/WW

3/8" Hose: Max. WP - 300 psi  
Outlet Thread - 1/4" NPT(M)

Signature Series	Premium Series	Hose Size	Outlet Hose	Inlet Hose
<b>2220-010</b>		30' x 3/8"	8134-030	8141-002
<b>2220-011</b>		40' x 3/8"	8134-040	8141-002
	<b>2211-012</b>	50' x 3/8"	8134-050	8141-002
	<b>2211-013</b>	60' x 3/8"	8134-060	8141-002

### OIL, ATF

1/2" Hose: Max. WP - 3,000 psi  
Outlet Thread - 1/4" NPT(M)

Signature Series	Premium Series	Hose Size	Outlet Hose	Inlet Hose
<b>2220-008</b>		30' x 1/2"	8241-030	8249-002
<b>2220-005</b>		40' x 1/2"	8241-040	8249-002
	<b>2211-009</b>	50' x 1/2"	8241-050	8249-002

### GREASE

1/4" Hose: Max. WP - 5,000 psi  
Outlet Thread - 1/4" NPT(M)  
3/8" Hose: Max. WP - 4,000 psi  
Outlet Thread - 1/4" NPT(M)

Signature Series	Premium Series	Hose Size	Outlet Hose	Inlet Hose
<b>2220-001</b>	<b>2211-001</b>	30 x 1/4"	8321-030	8332-002
<b>2220-004</b>		40 x 1/4"	8321-050	8332-002
	<b>2211-016</b>	60' x 1/4"	8321-060	8332-002
	<b>2211-017</b>	60' x 3/8"	8331-060	8332-002

### ELECTRIC LIGHT CORD\*

Model Number	Cord Size	Cord* Reel
<b>2530-001</b>	50' x 18 gauge	2510-010
<b>2530-002</b>	50' x 18 gauge	2510-010 (2)

\* For details on light cord reels, please see pg. 88

## CUSTOM PAINT COLORS

CUSTOM and SPECIAL color painted reels can add character to an installation and set it apart from others!

Custom colors are available on all open and enclosed reels. Balcrank's STANDARD paint colors for reels are gloss and textured black. A SPECIAL color is the customer's choice of the other colors in Balcrank's inventory. These paint colors are: yellow, white, blue, silver, red, and green. All SPECIAL color reel orders will require a minimum of 2 week lead time. CUSTOM colors are also available on open and enclosed reels. Balcrank will purchase these CUSTOM colors based on specifications supplied by the customer. All CUSTOM colors will require a minimum of 6 week lead time.

# HOSE REELS

## REEL ACCESSORIES

- 2230-001 - End Panels Black Poly
- 2230-022 - End Panels Metal - see custom paint colors pg. 45
- 2230-023 - End Panels White Poly



Includes two panels.

### 2230-002 - Mounting Bracket

Mounting Bracket Kit: Attaches channel to facility mounting structure. Use two bracket kits for 2, 3 or 4 reels. Use 3 brackets for 5 or 6 reels.



### Mounting Channels

For 1- to 6-Reel Banks: Use selection table shown below.



Model	No. of Reels	Dimensions
2230-003	one	7 3/4" x 9 3/4"
2230-004	two	7 3/4" x 19 1/2"
2230-005	three	7 3/4" x 29 1/4"
2230-006	four	7 3/4" x 39"
2230-007	five	7 3/4" x 48 3/4"
2230-008	six	7 3/4" x 58 1/2"

## TANK SADDLE



4520-006



4520-007

Use our exclusive saddle bracket, Model 4520-006, to quickly attach Balcrank hose reels to any 275 gallon oval or 550 gallon cylindrical tank. One step attachment, no welding or tank rework required. Order separate vent kit, Model 4520-007, to attach saddle to standard oval tanks at the vent cap location. Reference SB4013

## MOUNTING PLATES

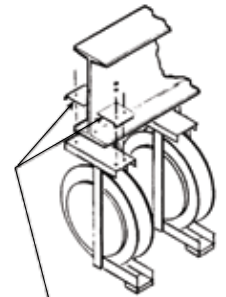
### 2230-017 - Signature™ Mounting Plate Kit

This specially configured mounting plate kit was designed to facilitate simple, one person field installation of Signature™ Series Hose Reels to structural beams.



### 2230-013 - Signature™/Premium Mounting Plate Kit

Attaches single Premium Series reels directly to structural beams with 4-1/2" to 6-1/2" flange widths. Model 2230-013 may be used to mount Premium Series reels to Balcrank hose reel mounting channels. (NOTE: Not to be used with Premium Extra Volume Hose Reels)



2230-013 mounting bracket pair

### 2230-014 - Signature™/Premium Mounting Plate

Simplified system for using open hose reels with a Balcrank mounting channel. One person installation is made easy, as this lighter weight plate is bolted to the mounting channel, providing a plug & stay mounting of Signature or Premium open reels.



## 2600-001 LUBE CONSOLE

The reliable alternative to hose reels. For quick lubes or other installations where a basement pit space is available. Reference SB2005.

- **Compact Design, Small Space Requirement**

Dimensions: 42" x 9" x 32"  
 Floor space - 2.6 sq. ft.  
 Reduced loss of work space

- **Premium Features & Finish Quality**

Heavy gauge welded steel cabinet  
 Durable powder coat finish  
 Premium hose outlets  
 Quality-styled to enhance a service area  
 Ships with 5 console stops and two hose stops  
 Includes lower hose guide assembly

- **Simple and Reliable Hose Management**

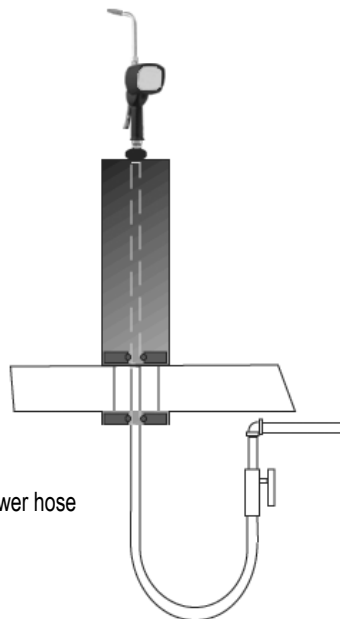
Low cost alternative to hose reels  
 Uses shorter hoses than overhead reels  
 Gravity hose tethering uses basement pit  
 Low maintenance, less downtime

- **Two-Bay Service Capability**

Install between bays for two-station service  
 Seven hose outlets  
 Use for any automotive service fluids  
 Higher equipment utilization

## INSTALLATION

Select recommended 16-ft length hoses from the hose table on page 46. Be sure to add hand shutoff valves and hose tethering space as shown in the diagram. Follow architect's guidelines for floor opening. For more information, see SB2005.



Optional second lower hose guide assembly



**2600-003 Lower Hose Guide Assembly**  
 (one included)



## 2600-005 - LUBE CONSOLE EXTENSION

Add-on unit with two hose outlets conveniently installs next to Balcrank's 2600-001 Island Lube Console for added capacity. Ships with 2 console stops. Reference SB2006.



## 2600-007 - CEILING PLATE

Basement ceiling plate with two hose outlets.

## 2600-006 - FLOOR PLATE HOSE GUIDE

Designed as a floor air station, this hose guide is made of 1/8" brushed aluminum and painted steel. Use with 2230-015 console stop.



## 2230-015 - CONSOLE STOP

Unique console stop is designed to attach around the hose of any control handle and fit snugly into the roller hose outlets of the Island Lube Console, Console Extension, and Floor Plate.



# HOSE REELS

## REPLACEMENT HOSES

For complete hose model specification, combine "Model Prefix" in column 1 with a "Length Suffix" in column 1 with a "Length Suffix" in the right-hand table. Example: Model 8134-030, 3/8" Air/Water Hose, 30 ft. length.

Model Prefix	Hose Type	Hose I.D.	Hose Max WP (psi)	Hose End Threads (NPT)	2	3	5	6-7	10	16	20	30	40	50	60	70	Length Suffix, Ft.	
																	10	16
8121	Air/Water	5/16"	250	1/4" M...1/4" M	-002	-003	-005					-030					-050	
8131	Air/Water	3/8"	300	3/8" M...1/4" M		-003												
8132	Air/Water	3/8"	300	1/4" M...1/4" M		-003	-005					-030						-050
8133	Air/Water	3/8"	300	1/2" M...3/8" M		-003						-030	-040					-050
8134	Air/Water	3/8"	300	3/8" M...3/8" M		-003						-030						-060
8135	Air/Water	3/8"	300	1/4" M...1/2" M		-003	-005	-006	-010	-016	-020	-030	-040					-050
8141	Air/Water	1/2"	300	1/2" M...1/2" M	-002	-003	-005	-006	-010	-016	-020	-030	-040					-060
8142	Air/Water	1/2"	300	1/4" M...1/2" M		-003	-005					-030						-050
8144	Air/Water	1/2"	300	1/2" M...3/8" M		-003	-005											
8161	Air/Water	3/4"	315	3/4" M...3/4" M		-005	-005											-060 070
8181	Air/Water	1"	250	1" MSW...1" MSW	-002	-003	-005	-006										-050
8231	Oil	3/8"	3,000	3/8" M...3/8" M		-003	-005	-006										
8232	Oil	3/8"	3,000	3/8" M...1/4" M									-040					-050
8233	Oil	3/8"	3,000	1/2" M...1/2" M								-030						-050
8241	Oil	1/2"	3,000	1/2" M...1/2" M				-006	-016	-016	-020	-030	-040					-070
8242	Oil	1/2"	3,000	3/8" M...3/8" M	-002	-003	-005	-006	-010	-016	-020	-030	-040					-050
8249	Oil	1/2"	3,000	1/2" M...1/2" MSW	-002	-004	-005	-006										
8261	Oil	3/4"	1,250	3/4" M...3/4" M		-005	-005	-007	-010	-010								-050
8262	Oil	3/4"	1,250	1/2" M...1/2" M		-005	-005		-010	-010	-020	-030						-050
8263	Oil	3/4"	1,250	3/4" M...1/2" M		-005	-005		-010	-020	-020							-050
8264	Oil	3/4"	2,250	3/4" M...3/4" MSW		-005	-005											-060
8266	Oil	3/4"	2,250	3/4" M...1" M	-002		-006											
8321	Grease	1/4"	5,000	1/4" M...1/4" MSW		-003	-005	-007	-010	-016	-020	-030	-040					-060
8322	Grease	1/4"	5,000	1/2-27 F...1/2-27 F	-002	-003	-005	-007	-010	-016	-020							-050
8323	Grease	1/4"	5,000	1/4" M...3/8" M			-007											
8331	Grease	3/8"	4,000	1/4" M...1/4" MSW		-005	-005		-016	-016		-030	-040					-060
8332	Grease	3/8"	4,000	1/4" M...3/8" M	-002	-005	-005											
8333	Grease	3/8"	4,000	3/8" M...3/8" M	-002	-005	-005	-007				-030						-050





# CONTROL HANDLES

# PROFESSIONAL SERIES CONTROL HANDLES

## ELECTRONIC

### FEATURES

- Heavy duty, one piece metal construction
- Two outlet nozzle position (in-line or pistol grip)
- Oval gears for optimum accuracy
- Resettable batch totalizer; non-resettable totalizer
- Resettable third totalizer to track daily or weekly usage
- Free-moving, ball bearing swivel
- Up to 8 gallons per minute (bare handle)
- Trigger guard included
- Models available with automatic and semi-automatic tip



### SPECIFICATIONS

#### Units of Measure:

Quarts, gallons, or liters. Field adjustable to pints.

#### Dispense Quantity:

4 digit LCD display to decimal hundredth units (xx.xx).

#### Totalizer Quantity:

Separate 6 digit LCD display to integer units (xxxxxx.). Non resettable displays total volume meter dispensed. Third totalizer resettable in gallons or liters to track daily or weekly usage.

#### Pressure:

1,500 psi max. operating pressure.

#### Operating Temperature:

32-120 deg. F.

#### Fluid Viscosity:

Up to SAE 140 (includes ATF, antifreeze, motor oils and gear oils)

#### Wetted Parts:

Aluminum, Buna-N, polyphenylene sulfide.

#### Flow Rate:

0.5-8 GPM operating range (bare handle).

#### Measuring Accuracy:

Error less than 0.5 percent at flow rates  $\geq$  0.5 GPM.

#### Battery Type:

Two size AA batteries; replaceable by user with no loss of memory.

Inlet: 1/2" NPT.

Outlet: 3/8" NPS

### MODELS AVAILABLE

Model	Type	Extension	Tip
3330-054	Rigid	3332-040	Automatic
3330-055	Flex	3332-041	Automatic
3330-057	Flex 90	3332-043	Automatic
3330-059	Straight*	3332-044	Automatic
3330-063	Rigid	3332-048	Semi-automatic
3330-065	Flex	3332-049	Semi-automatic
3330-067	Flex 90	3332-051	Semi-automatic
3330-064	Straight*	3332-052	Semi-automatic
3330-058	Bare		

Reference SB3026

\*Pistol Grip

### 831992 - COLORED SHROUDS

Customize your fluids with colored shrouds. Shrouds also guard against shock damage of meter body and dial face. Standard colors are red, blue, green, and yellow.



# PROFESSIONAL SERIES CONTROL HANDLES

## ELECTRONIC PRESET

### FEATURES

- Heavy duty, one-piece metal construction
- Two outlet nozzle position (in-line or pistol grip)
- Oval gears for optimum accuracy
- Resettable batch totalizer 6 digits
- Selectable alarm
- Free-moving, ball bearing swivel
- Up to 8 gallons per minute (bare handle)
- Automatic shutoff for hands free operation
- Standard with high flow semi-automatic tip



3331-014

### SPECIFICATIONS

**Units of Measure:**

Quarts, gallons, or liters. Field adjustable to pints.

**Dispense Quantity:**

6 digit LCD display to decimal hundredth units (xx.xx).

**Totalizer Quantity:**

Separate 6 digit LCD display to integer units (xxxxxx.). Resettable in gallons.

**Pressure:**

1,500 psi max. operating pressure.

**Memory:**

Five pre-programmed dispense volumes

**Operating Temperature:**

32-120 deg. F

**Fluid Viscosity:**

Up to SAE 140 (includes ATF, antifreeze, motor oils and gear oils)

**Wetted Parts:**

Aluminum, Buna-N, polyphenylene sulfide.

**Flow Rate:**

0.5-8 GPM operating range

**Measuring Accuracy:**

Error less than 0.5 percent at flow rates  $\geq$  0.5 GPM

**Battery Type:**

Two size AA batteries; replaceable by user with no loss of memory.

**Inlet:** 1/2" NPT

**Outlet:** 3/8" NPS

### MODELS AVAILABLE

Model	Type	Extension	Tip
3331-014	Straight	3332-045	Semi-automatic
3331-020	Flex	3332-046	Semi-automatic
3331-012	Bare		

Reference SB3021

### 831992 - COLORED SHROUDS

Customize your fluids with colored shrouds. Shrouds also guard against shock damage of meter body and dial face. Standard colors are red, blue, green, and yellow.



# PROFESSIONAL SERIES CONTROL HANDLES

## MECHANICAL

### FEATURES

- Heavy duty, one piece metal construction
- Two outlet nozzle position (in-line or pistol grip)
- Oval gears for optimum accuracy
- Simple, one button operation
- No batteries to replace, no LCD display to crack or fail
- 4 digit totalizer with 6 digit non-resettable totalizer
- Free-moving, ball bearing swivel
- Up to 8 gallons per minute (bare handle)
- Trigger guard included
- Models available in quarts or liters with automatic or semi-automatic tip



### SPECIFICATIONS

**Units of Measure:**

Quarts or liters

**Dispense Quantity:**

Mechanical 4 digit counter

**Totalizer Quantity:**

Mechanical 6 digit counter

**Pressure:**

1,500 psi max. operating pressure.

**Operating Temperature:**

0-120 deg. F

**Fluid Viscosity:**

Up to SAE 140 (includes ATF, antifreeze, motor oils and gear oils)

**Wetted Parts:**

Steel, Aluminum, Acetal, Nitrile rubber

**Flow Rate:**

0.5-8 GPM operating range

**Measuring Accuracy:**

Error less than  $\pm 0.5$  percent over operating range

**Inlet:** 1/2" NPT

**Outlet:** 3/8" NPS

### 831969 - COLORED SHROUDS

Customize your fluids with colored shrouds. Shrouds also guard against shock damage of meter body and dial face. Standard colors are red, blue, green, and yellow.



### MODELS AVAILABLE

Model	Type	Extension	Tip
3330-037	Rigid - Qt	3332-040	Automatic
3330-038	Flex - Qt	3332-041	Automatic
3330-039	Flex 90 - Qt	3332-043	Automatic
3330-060	Straight - Qt*	3332-044	Automatic
3330-040	Rigid - Lt	3332-040	Automatic
3330-041	Flex - Lt	3332-041	Automatic
3330-042	Flex 90 - Lt	3332-043	Automatic
3330-061	Straight - Lt*	3332-044	Automatic
3330-071	Rigid - Qt	3332-048	Semi-automatic
3330-073	Flex - Qt	3332-049	Semi-automatic
3330-074	Flex 90 - Qt	3332-051	Semi-automatic
3330-072	Straight - Qt*	3332-052	Semi-automatic
3330-075	Rigid - Lt	3332-048	Semi-automatic
3330-077	Flex - Lt	3332-049	Semi-automatic
3330-078	Flex 90 - Lt	3332-051	Semi-automatic
3330-076	Straight - Lt*	3332-052	Semi-automatic
3330-049	Bare - Qt		
3330-050	Bare - Lt		

Reference SB3022

\*Pistol Grip

# PREMIUM CONTROL HANDLES

## MECHANICAL

### FEATURES

- Rugged die-cast aluminum body construction
- Fluid-tight design
- Includes internal filter
- Well balanced, comfortable styling
- Accuracy to  $\pm 0.65$  percent
- No batteries to replace
- Models available in quarts or liters with automatic or semi-automatic tip



### SPECIFICATIONS

**Units of Measure:**

Quarts or liters

**Dispense Quantity:**

Dial face with rotary pointer

**Totalizer Quantity:**

Mechanical 4 digit counter in dispense unit of measure

**Pressure:**

1,000 psi max. operating pressure.

**Operating Temperature:**

0-110 deg. F

**Fluid Viscosity:**

Up to SAE 140 (includes ATF, antifreeze, motor oils and gear oils)

**Wetted Parts:**

Steel, Aluminum, Buna-N

**Flow Rate:**

0.5-4 GPM operating range

**Measuring Accuracy:**

Error less than  $\pm 0.65$  percent over operating range

**Inlet:** 1/2" NPT

**Outlet:** 1/2" NPT

### MODELS AVAILABLE

Model	Type	Extension	Tip
3330-007	Flex 90 - Pt	3332-019	Automatic
3330-008	Straight - Qt	3332-024	Automatic
3330-009	Flex - Qt	3332-067	Automatic
3330-010*	Straight - Qt	3332-024	Automatic
3330-016	Flex 90 - Lt	3332-019	Automatic
3330-017	Straight - Lt	3332-024	Automatic
3330-019	Flex - Lt	3332-067	Automatic
3330-080	Flex 90 - Pt	3332-070	Semi-automatic
3330-081	Straight - Qt	3332-058	Semi-automatic
3330-082	Flex - Qt	3332-060	Semi-automatic
3330-083*	Straight - Qt	3332-058	Semi-automatic
3330-084	Flex 90 - Lt	3332-070	Semi-automatic
3330-085	Straight - Lt	3332-058	Semi-automatic
3330-086	Flex - Lt	3332-060	Semi-automatic
3330-051	Bare - Qt		
3330-052	Bare - Lt		

### 3332-005 - Meter Body Shroud

Protective elastomer sleeve fits all Classic Pistol Grip Mechanical and Mechanical Preset Series metered control handles. Guards against shock damage of meter body and dial face.



Reference SB3025

\*Models 3330-010 & 3330-083 compatible with antifreeze.



# PREMIUM CONTROL HANDLES

## MECHANICAL PRESET

### FEATURES

- Rugged die-cast aluminum body construction
- Fluid-tight design
- Includes internal filter
- Well balanced, comfortable styling
- Automatically shuts off when preset quantity has been dispensed
- No batteries to replace
- Standard with high flow semi-automatic tip



3331-001

### SPECIFICATIONS

**Units of Measure:**

Quarts or pints

**Dispense Quantity:**

Dial face with rotary pointer

**Totalizer Quantity:**

Mechanical 4 digit counter in dispense unit of measure

**Pressure:**

1,000 psi max. operating pressure.

**Operating Temperature:**

0-110 deg. F

**Fluid Viscosity:**

Up to SAE 140 (includes ATF, antifreeze\*, motor oils and gear oils)

**Wetted Parts:**

Steel, Aluminum, Buna-N

**Flow Rate:**

0.5-4 GPM operating range

**Measuring Accuracy:**

Error less than 0.65 percent over operating range. Dial resolution:

1/4 x unit of measure

**Inlet:** 1/2" NPT

**Outlet:** 1/2" NPT

### MODELS AVAILABLE

Model	Unit of Measure	Extension
3331-001	60 quarts	3332-030
3331-003	60 gallons	3332-030
3331-004	16 quarts	3332-030
3331-006*	60 quarts	3332-030
3331-015	16 liters	3332-030

Reference SB3035

\*Model 3331-006 compatible with antifreeze.

### 3332-005 - Meter Body Shroud

Protective elastomer sleeve fits all Classic Pistol Grip Mechanical and Mechanical Preset Series metered control handles. Guards against shock damage of meter body and dial face.



## ELECTRONIC

### FEATURES

- 1,500 psi meter with oval gears
- Electronic register with replaceable AAA batteries
- Four extra valve covers for fluid identification: red, blue, yellow, green (standard, black)
- Programmable to dispense in pints, quarts, gallons, and liters
- Calibration held in memory during battery change
- Inlet screen included
- Built in trigger guard
- Accuracy to  $\pm 0.5$  percent
- Manual tip
- Inlet - 1/2" NPT
- Outlet - 1/2" NPT



Model	Type	Extension	Tip
<b>3330-091</b>	Rigid	832190	Manual
<b>3330-093</b>	Flex	832199	Manual
<b>3330-092</b>	Flex 90	831789	Manual

Reference SB3046

## MECHANICAL

### FEATURES

- 1,500 psi meter with oval gears
- Four extra valve covers for fluid identification: red, blue, yellow, green (standard, black)
- Dispenses in quarts, totalizes in gallons
- Inlet screen included
- Built in trigger guard
- No batteries to replace, no LCD screens to crack or fail
- Simple, one button operation
- Accuracy to  $\pm 0.5$  percent
- Manual tip
- Inlet - 1/2" NPT
- Outlet - 1/2" NPT



Model	Type	Extension	Tip
<b>3330-102</b>	Rigid	832190	Manual
<b>3330-103</b>	Flex	832199	Manual
<b>3330-104</b>	Flex 90	831789	Manual

Reference SB3051

# CONTROL HANDLES

## NON-METERED

### FEATURES

- Balanced ergonomic design
- Four extra valve covers for fluid identification: red, blue, yellow, green (standard - black)
- Locking models available recommended for use with fluid inventory control systems only
- Inlet screen included
- Choice of extensions
- Available with manual, automatic or semi-automatic tip
- Compatible with motor oils, gear oils, synthetics, ATF, antifreeze, and windshield washer fluid
- Inlet - 1/2" NPT
- Outlet - 3/8" NPS



Model	Type	Extension	Tip
<b>3320-001</b>	Rigid	3332-066	Automatic
<b>3320-003</b>	Flex	3332-067	Automatic
<b>3320-005</b>	Flex 90	3332-019	Automatic
<b>3320-006</b>	Rigid - locking	3332-066	Automatic
<b>3320-007</b>	Flex - locking	3332-067	Automatic
<b>3320-014</b>	Rigid	3332-069	Semi-automatic
<b>3320-010</b>	Flex	3332-060	Semi-automatic
<b>3320-011</b>	Flex 90	3332-070	Semi-automatic
<b>3320-012</b>	Rigid - locking	3332-069	Semi-automatic
<b>3320-013</b>	Flex - locking	3332-060	Semi-automatic
<b>3320-015</b>	Rigid	832190	Manual
<b>3320-021</b>	Flex	832199	Manual
<b>3320-016</b>	Flex 90	831789	Manual
<b>3320-017</b>	Rigid High Flow	3332-063	Semi-automatic
<b>3320-018</b>	Flex High Flow	3332-046	Semi-automatic
<b>3320-019</b>	Rigid HF - lock	3332-063	Semi-automatic
<b>3320-020</b>	Flex HF - lock	3332-046	Semi-automatic

Reference SB3008



# IN-LINE METERS & HANDLE ACCESSORIES

## IN-LINE METERS

### FEATURES

- Designed for in-line mounting with 1/2" Npt threads
- Models for all automotive service fluids: motor oil, gear oil, ATF, engine coolant
- Mechanical or digital models available
- Choice of units of measure



3120-001



3120-042



3120-054

Model	Fluid Type	Unit of Measure
3120-001	Oil, ATF	Liter, dial
3120-002	Gear Oil	Pint, dial
3120-004	Oil, ATF	Gallon, no dial
3120-042	Oil, ATF	Gal, Qt, Pt, Lt
3120-054	Oil, ATF	Qt, Mechanical

Reference SB3036 or SB3046

## EXTENSIONS & TIPS

Inlet	Thread (M)	Type	Tip	Model
3/8"	NPT	Rigid	Automatic	3332-014
3/8"	NPT	Flex	Automatic	3332-015
3/8"	NPT	Straight	Automatic	3332-027
3/8"	NPT	Rigid	Semi-automatic	3332-053
3/8"	NPT	Flex	Semi-automatic	3332-054
3/8"	NPT	Straight	Semi-automatic	3332-057
3/8"	NPS	Rigid High Flow	Semi-automatic	3332-063
3/8"	NPT	Flex High Flow	Semi-automatic	3332-038
3/8"	NPT	Elbow High Flow	Semi-automatic	3332-064
3/8"	NPT	Flex 90 High Flow	Semi-automatic	3332-065



### 3332-028 - Automatic Tip

- Steel construction
- Zinc plating
- 4.8 gpm max. flow rate
- 3/8" NPT



### 3332-047 - Semi-automatic Tip

- Steel construction
- Zinc plating
- 5.5 gpm max. flow rate
- 3/8" NPT



### 3332-039 - High-Flow Semi-automatic Tip

- Steel construction
- Zinc plating
- 15.5 gpm max. flow
- 3/8" NPT

# GREASE HANDLES

## PREMIUM SERIES

### FEATURES

- Boosting and non-boosting models available
- All steel construction and forged valve body
- Precise, proportional trigger action
- Six inch curved extension stem and hydraulic coupler
- Inlet screen included
- 1/4" NPT(F) threads on handle body and z-swivel
- 5,000 psi working pressure on non-boosting models
- 10,000 psi can be obtained on boosting models by pumping hand trigger (not for use with whip hose)
- Service bulletin SB3018



### MODELS AVAILABLE:

- 3310-007** Premium Series Booster Grease Handle
- 3310-008** Premium Series Grease Handle
- 3310-009** Premium Series Booster Grease Handle with Z-swivel
- 3310-010** Premium Series Grease Handle with Z-swivel
- 3310-020** Premium Series Grease Handle with 36" Whip Hose and Z-swivel
- 3310-025** Premium Series Grease Handle with 18" Whip Hose and Z-swivel

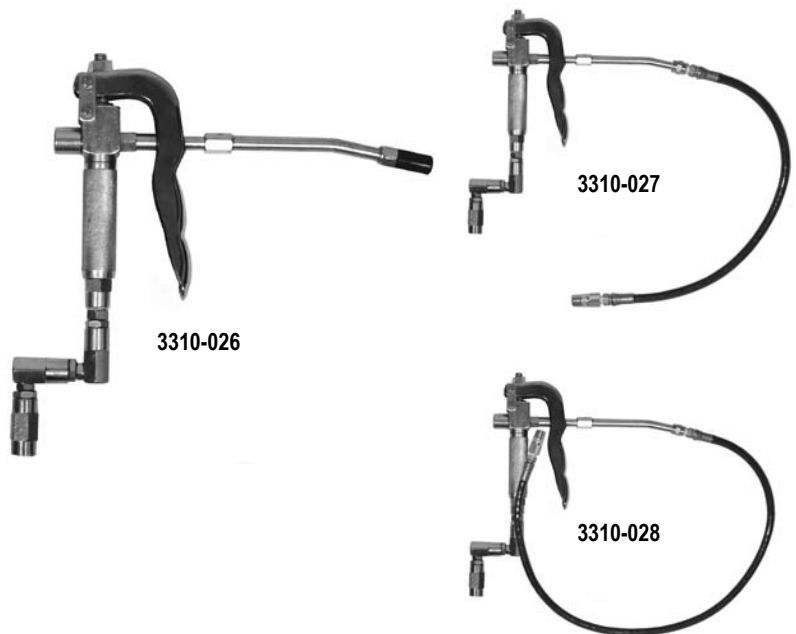


## HEAVY DUTY

### FEATURES

- 5,000 psi working pressure
- Rigid outlet or flex hose models available
- 1/4" NPT(F) grease inlet
- Includes z-swivel
- Service bulletin SB3044

avail-



### MODELS AVAILABLE:

- 3310-026** Non-boosting Grease Handle
- 3310-027** Non-boosting Grease Handle with 18" Whip Hose
- 3310-028** Non-boosting Grease Handle with 36" Whip Hose

## GREASE ACCESSORIES

### 5310-020 - Grease Coupler

Standard supergrip coupler. 10,000 psi working pressure. 1/8-27 NPT threads.



### 8390-002 - 18" Flexible Extension

### 8390-003 - 36" Flexible Extension

Flexible whip hose extensions with crimped 1/8" NPT(M) fittings on each end. For grease applications up to 5,000 psi. Includes adapter to attach to grease control handle.



## Z-SWIVELS

### FEATURES

- Swivel action for better control
- Installed between grease handle and fluid hose for freedom of motion
- Low friction ball bearing swivels
- All steel construction
- High pressure packings
- 6,000 psi working pressure

### MODEL AVAILABLE:

- 5310-017** - 1/4" NPT(F) x 1/8" NPT(M)
- 5310-018** - 1/4" NPT(F) x 1/4" NPT(M)



# OIL BARS

## OIL BARS

**4200-008 Oil Bar:** Features four dispense points, heavy duty, molded polyethylene body, drain with steel screen and 1/2" NPT hose connection, holes for installing Spectrum Ready Lights. Easily incorporated into Spectrum FIC systems. Dimensions: 13.25" deep x 28" wide x 35" high. 4200-008 oil bar ships with one spigot. For two-, three-, and four-spigot oil bars, order additional 4200-005 spigots. Shipped with fluid identification stickers. Service bulletin SB4033.



**4200-009 Oil Bar:** Features two dispense points, heavy gauge steel construction, drain with steel screen, holes for installing Spectrum Ready Lights. Easily incorporated into Spectrum FIC systems. Dimensions: 15" deep x 12" wide x 24" high. 4200-009 oil bar ships with one spigot. For two spigot oil bars, order an additional 4200-005 spigot. Shipped with fluid identification stickers. Service bulletin SB4034.



## SPIGOTS

**Dispenser Spigots:** Featuring smooth trigger action, anti-splash flow diffuser and shutoff valve. 750 psi. Available in gooseneck style for transfer pumps and straight stem style (1" M, 3/8" F) for oil bars. Service bulletin SB4005.

- 4200-004 Gooseneck 3/4" NPT(M)
- 4200-005 Straight Stem for Oil Bars
- 4200-006 Spigot Only
- 4200-007 Gooseneck 1/2" NPT(M)



## TANK ACCESSORIES

**Tank Level Gauges:** Mount on tank bung fitting. Display dial shows the remaining fluid depth in inches as the attached float level changes. For stationary tanks only. Not recommended for mobile lubers.

- 4520-003 60"
- 4520-004 36"
- 4520-005 32"
- 4520-009 72"





# Fluid Inventory Control

# FLUID INVENTORY CONTROL

## fusion

### fusion CENTRAL (CCS):

- Wirelessly control and manages up to 8 fluids and 48 handles
- Easy entry of authorized PIN codes and job information on the Central Dispense Keypad
- Fast completion of jobs
- Built-in ticket printer produces a detailed written record for each job
- Allows for future expansion of the system

### MODELS AVAILABLE:

- 3110-012** Central Dispense Keypad
- 3331-018\*** Handle for petroleum based fluids
- 3331-019\*** Handle for water based solutions, brake fluid



3110-012

3331-018

\* Lance sold separately

### fusion DISTRIBUTED CONTROL SYSTEM (DCS):

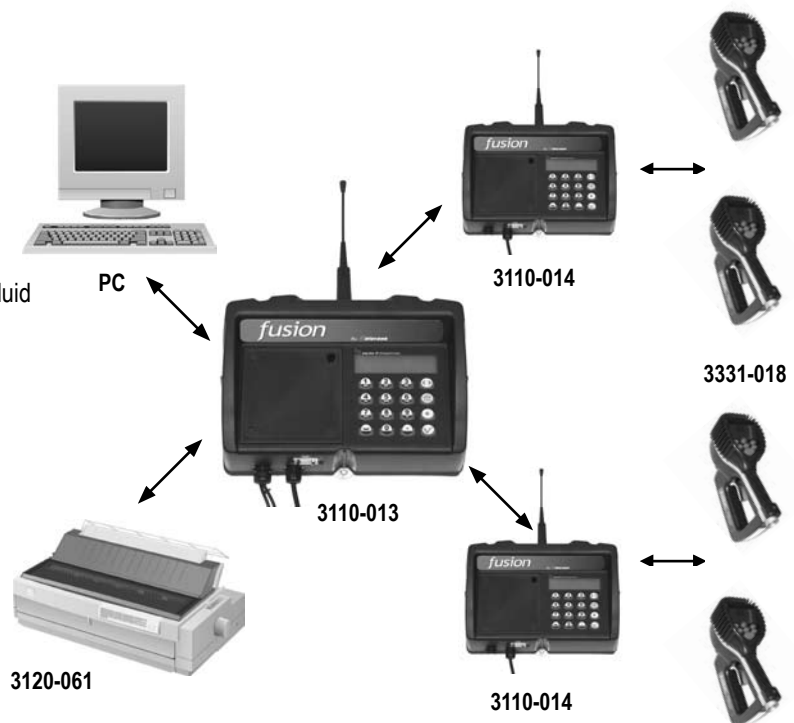
- Increase system capacity to 16 fluids and 250 dispense points
- Add capacity at any time
- fusion Central handles are building blocks of the fusion DCS
- Generate reports by product, operator, or customer
- Monitor inventory levels
- Two separate security levels
- Optional external printer for job tickets

### LANCES AVAILABLE:

- 3332-060** Rigid, Semi-automatic
- 3332-069** Flex, Semi-automatic
- 3332-083** Rigid, High Flow Semi-automatic
- 3332-083** Flex, High Flow Semi-automatic

### MODELS AVAILABLE:

- 3110-013** Master Keypad
- 3110-014** Dispense Keypad
- 3331-018\*** Handle for petroleum based fluids
- 3331-019\*** Handle for water based solutions, brake fluid
- 3120-055** Remote antenna with 17" cable
- 3120-056** Remote antenna with 30' cable
- 3120-057** Antenna Splitter
- 3120-058** 25' RS 232 Cable
- 3120-059** 50' RS 232 Cable
- 3120-060** 100' RS 232 Cable
- 3120-061** Optional External Printer with cable
- 3140-001** ADP Interface
- 3140-002** Reynolds & Reynolds Interface



## fusion

### fusion SYSTEM SPECIFICATIONS:

#### fusion Central

Wireless Keypad	1
Wireless Metered Control Handles	1 – 48
Number of Fluids	1 – 8
Serial Printer Port	1
User IDs	1 – 50

#### fusion DCS, Distributed Control System

Wireless Master Keypad	1
Dispense Keypad	1 – 36
Wireless Metered Control Handles	1 – 250
Number of Fluids	1 – 16
Serial Printer Port	1
ADP / R&R Interface Program	Optional



#### fusion, Console/Keypad Specifications

Supervisor Accounts	1
Supervisory Authority	Initialization, Configuration, Communication, & Reporting
User IDs	1 – 250
Operator Authority	Dispense Orders
Tanks Calibration	Quarts, Liters, Pints, and Gallons
CPU	TI MSP430 8-bit
Communications – USA	2-way 902-928MHz Frequency hopping spread spectrum
Power requirements	120 VAC, 60 Hz
Operating Temperature range	14 deg F to 140 deg F

#### fusion, Wireless Control Handle Specifications

Minimum and Maximum Flow	.5 – 10 gpm
Maximum Operating Pressure	1000 psi
Meter Accuracy	+/- 0.5%
LCD Display	5 char; 10mm H x 5mm W
Unit of Measurement	Quarts, Liters, Pints, and Gallons
Inlet/Outlet Connections	½ NPT (Order Extensions Separately)

# FLUID INVENTORY CONTROL

## SPECTRUM 1000™

### FEATURES

- Capacity: Up to 16 fluids dispatched to a maximum 384 dispense points
- Electronic queuing of up to 900 dispenses from a PC
- User-friendly PC data interface with reporting and tank monitoring capabilities
- Job ticket printer, available with keypad, clearly reports all dispensing data
- PIN identification for up to 999 operators with separate management passwords
- Monitors and controls up to 16 tanks, 12 with sensor probes
- Dispenses in quarts, pints, liters, or gallons
- Totalizes tank levels in gallons or liters
- Simultaneous dispenses, one per zone or keypad
- Easy installation and flexible configuration for today's shop and for tomorrow's expansion
- Accurate dispense measurements - 0.5 to 8.0 gpm -  $\pm 5\%$
- Large LED display - better than ready lights
- Operated by low voltage dc power
- Service fluids: motor oils, ATF, gear oil, anti-freeze, and WW fluid



### INSTALLATION CABLE

**Installation Cable** - Three types of installation cable for Spectrum 1000 are available: Main Input/Output, Meter Valve, and Signal. Custom bundled wires reduce installation time. Factory cable required for warranty.

3124-XXX	Main I/O Cable
3126-XXX	Meter Valve Cable
3127-XXX	Signal Cable*

Prefix	50 ft.	100 ft.	150 ft.	250 ft.
3124	-050	-100	-150	-250
3126	-050	-100	-150	-250
3127	-050	-100	-150	-250

\* Signal Cable is also used for Tank Guardian p. 68.



## SYSTEM COMPONENTS



**1 3110-011 Keypad.** Fluid control console for system zone. Pint, quart, liter, or gallon units of measure are program selectable. By means of a few simple inputs the operator can be recognized by the keypad, select the product to be dispensed, and preset the quantity to be dispensed. Optional ticket printer clearly reports all dispensing data. Keypad can control up to a maximum 12 dispense points per zone using two expansion power units. Model 3110-010 Keypad available with a built-in printer. SB 3050.



**2 Power Unit.** Included with Spectrum keypads, the Power Unit supplies low voltage electricity to all system components. All electrical connections of the system are located on the large and sturdy housing of the unit to simplify and speed up the installation procedure. The Power Unit can directly control up to 4 reels. Attaches to 110 VAC source power.



**3 3120-046 - Expansion Power Unit.** An optional component, the Expansion Power Unit is connected to the main Power unit. It controls 4 additional reels by means of the same keypad. A maximum of two Expansion Power Units can be connected to the main PU increasing the maximum number of reels controlled by the same keypad to 12.



**4 3120-044 - LED Remote Display.** Clear and back-lighted 4" digits for high precision and convenient dispensing even away from the keypad. Blinking display alerts operator when fluid has been enabled for dispensing. On-going display of the batch total during dispense. Order one LED Remote Display per zone.

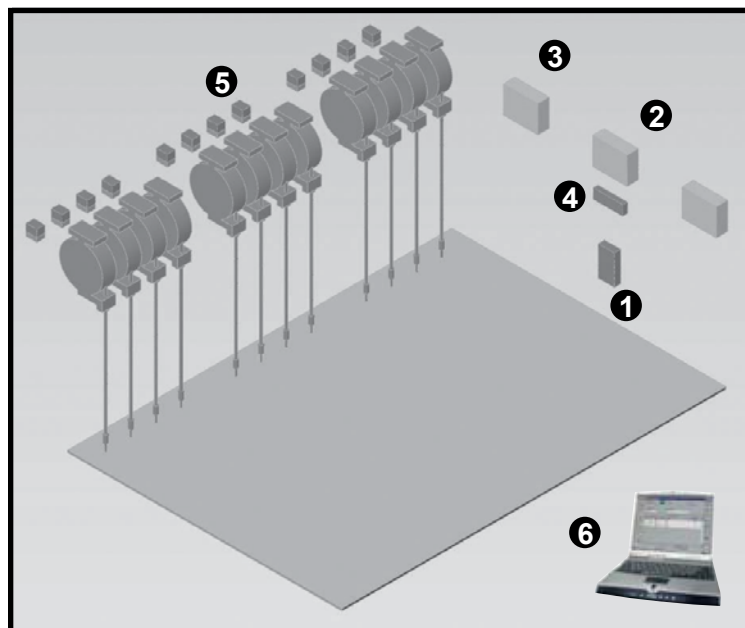


**5 3120-045 - Meter Valve Unit.** This unit takes the place of the impulse meter, fluid solenoid valve, and y-strainer. With this one unit, installation is simplified because system has fewer components. Install one Meter Valve Unit per reel. Order 3120-050 for WWF.



**6 3120-047 - PC Interface Software.** User-friendly and developed for the Windows XP environment. Software enables the activation of any dispenser from the PC; optimizes printing output; applies filters and/or orders the output of the operations performed; organizes and prints reports relevant to products, operators, or jobs. Performs tank level management; updates and displays levels of each tank; warns manager of low level conditions. Order one per system.

## DISPENSE ZONE WITH MAXIMUM EQUIPMENT



## TANK GUARDIAN



The Tank Guardian is used for real time tank monitoring on the Spectrum 1000 FIC system. Information is found on pg. 68.

# FLUID INVENTORY CONTROL

## SPECTRUM 100™

### FEATURES

- Spectrum 100™ Capacity: up to 4 fluids to 16 stations, 2 fluids to 32 stations, or 1 fluid to 64 stations
- Electronic queuing of up to five dispenses per fluid
- Automated priority assignment of dispense in the queue
- Optional job ticket printer capable of printing a record of each transaction, as well as daily and monthly historic dispense-log reports
- Self-test diagnostic procedure at each power-up of the system
- PIN identification of up to 32 operators with separate protected ID for up to 5 program management functions
- Tank level management including current tank level, tank capacity, and tank low-level alert
- Small console footprint: 7" L x 5" W x 1-3/8" H
- Input power 110 volt AC supplies 24 volt DC output to power system components
- Fluid measurement: pints, quarts, gallons, or liters
- Service fluids: motor oils, synthetics, ATF, gear oil, anti-freeze
- Preprogrammed and tested before leaving the factory
- Service bulletin SB3039



### MODEL AVAILABLE:

**3110-006P** Preprogrammed Spectrum 100™ Queuing Console

### INSTALLATION CABLE FOR SPECTRUM 100

**Installation Cable** - Three types of installation cable are available: Communication/Power, Solenoid Valve, and Impulse Meter. Custom bundled wires reduce installation time.

<b>3121-XXX</b>	Communication Power Cable
<b>3122-XXX</b>	Impulse Meter Cable
<b>3123-XXX</b>	Solenoid Valve Cable

### 832057 - Wire Prep Kit

**Wire Prep Kit:** Kit assists installers in providing premium quality wiring hook-ups for Spectrum 100. Kit includes cable jacket remover, wire stripper, and pin crimper. Ferrules for use on Spectrum cable are also included.

Prefix	50 ft.	100 ft.	150 ft.	200 ft.	250 ft.	500 ft.	1000 ft.
3121	-050	-100	-150	-200	-250	-500	-000
3122	-050	-100	-150	-200	-250	-500	-000
3123	-050	-100	-150	-200	-250	-500	

## SYSTEM COMPONENTS

### 3120-030 - Smart Controller

**Smart Controller:** Input/output communication module required to provide distributed control and communication to up to four air or fluid solenoids using the Spectrum™ Queuing Consoles. Wall or ceiling mounted near pumps and hose reels.



### 3120-035 - Ticket Printer

**Printer:** Small desktop ticket printer uses standard 2.2" paper tape. Locate adjacent to the console to print data reports directly from the queuing console. Includes signal cable, power adapter, and cord for 110 VAC outlet. For use with Spectrum™ 100.



### 3120-039 - Printer Extension Cord

**Extension Cord:** 250 Ft. length cable connects communications port from Model 3120-026 Ticket Printer to Model 3110-006 Queuing Console, allowing remote viewing of printer reports. Up to two extensions may be used in series to provide printer operating distance up to 500 feet.

### 3120-034 - Spectrum Impulse Meter

**Universal Impulse Meter:** In-line meter measures dispensed fluid and generates a digital pulse signal used by the console to determine pumped fluid quantities. Wiring connects directly to the console. 1,000 psi pressure rating, 1/2" NPT ports, measuring accuracy +/- 0.5%. Enhanced accuracy available by custom calibration during installation. Specify one per pump.



### 3120-032 - Fluid Solenoid

**Fluid Solenoids:** Stops the flow of fluids instantly at the preset quantity. Pressure rating 1500 psi; port thread size 1/2" NPT(F); 24 Volt DC power. Order one per dispensing reel/handle.



### 3120-033 - Air Solenoid

**Air Solenoids:** Provides for the remote shutdown of dispensing pumps from the fluid control console. Pressure rating 200 psi; port thread size 3/8" NPT(F); 24 Volt DC power. Order one per controlled pump.



### 3120-031 - Ready Light

**Ready Light:** Alerts the bay technician when fluid batch is available for dispensing. Bright green light is powered and operated through the Smart Controller. Ready light can be installed in 1/2" hole in arm of both Signature and Premium Series hose reels or Balcrank's Model 4200-008 Oil Bar. For use with Spectrum™ 100 system. (24 VDC)



### 3120-051 - Y-Strainer - 1/2"

### 3120-010 - Y-Strainer - 3/4"

### 3120-040 - Y-Strainer - 1"

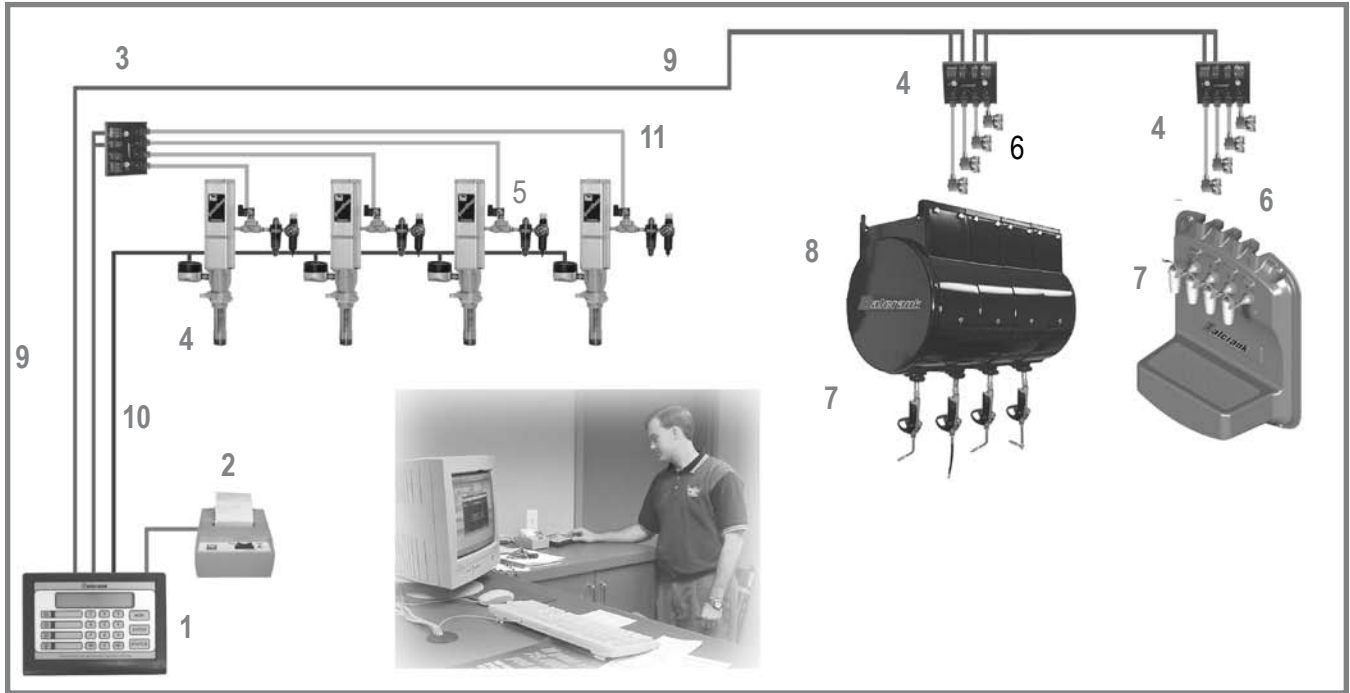
**Y-Strainer:** For use in the fluid line prior to fluid solenoids to assure reliable solenoid valve operation. Filter element is easily cleaned. Order one per dispensing station.



# FLUID INVENTORY CONTROL

## SPECTRUM 100™

### TYPICAL SPECTRUM SYSTEM LAYOUT - FOUR FLUIDS TO TWO STATIONS



### SYSTEM COMPONENTS

1. Spectrum 100™ Queuing Console
2. Printer
3. Smart Controller
4. Universal Impulse Meter
5. Air Solenoid Valve
6. Fluid Solenoid
7. Ready Light
8. Y-Strainer
9. Communication Power Cable
10. Impulse Meter Cable
11. Solenoid Cable

### TANK LEVEL MONITORING



**4520-010 Tank Guardian.** Monitors the fluid level of tanks by detecting the static pressure generated by the fluid height. A tube is inserted in the tank and the fluid level or volume is displayed on the Tank Guardian screen. Displays in gallons or liters. Tank Guardian can be used as a stand alone monitoring system or with any of Balcrank's FIC systems.

**Tank Guardian Software.** Multi Tank -4, -8, and -12. This software interface enables the user to connect up to 12 Tank Guardian level gauges. It saves historical tank level records according to time interval, level change, and volume change. With the recorded data, a diagram can be displayed showing the historical tank level records. High and low level prompts are included in the display.

- 4520-011** Multi Tank 4
- 4520-012** Multi Tank 8
- 4520-013** Multi Tank 12

## DIRECTOR JR.

### FEATURES

- Capacity: 1 fluid to 10 stations
- Large LED information display
- Packaged in compact, attractive cabinet
- Totalizing feature for ease of fluid inventory record-keeping
- Input power 110 volt AC supplies 24 volt AC output to power system components
- Fluid measurement: pints, quarts, gallons, or liters
- Service fluids: motor oils, synthetics, ATF, gear oil, anti-freeze
- Service bulletin SB3045



### MODEL AVAILABLE:

3110-008 Director Jr.. FIC Console

## SYSTEM COMPONENTS

### IMPULSE METERS

- 3120-005 - Liters
- 3120-006 - Pints
- 3120-007 - Quarts
- 3120-008 - Gallons
- 3120-016 - Quarts, Coolant



Impulse meters convert fluid movement into a pulse count signal. Order one per pump. Select meters to match the unit of measure desired for the installed system. For use in 12V, 24V, and 120V systems. Wetted parts compatible with petroleum products and engine coolant. 10 pulses per unit of measure. Service bulletin SB3003..

- 3120-051 - Y-Strainer - 1/2"
- 3120-010 - Y-Strainer - 3/4"
- 3120-040 - Y-Strainer - 1"

**Y-Strainer:** For use in the fluid line prior to fluid solenoids to assure reliable solenoid valve operation. Filter element is easily cleaned. Order one per dispensing station.



### 3120-011 - Air Solenoid Valve

**Air Solenoids:** Provides for the remote shutdown of dispensing pumps from the fluid control console. Pressure rating 200 psi; port thread size 3/8" NPT(F); 24 Volt AC power. Order one per controlled pump.



### 3120-012 - Fluid Solenoid Valve

**Fluid Solenoids:** Stops the flow of fluids instantly at the preset quantity. Pressure rating 1500 psi; port thread size 1/2" NPT(F); 24 Volt AC power. Order one per dispensing reel/handle.



### 3120-009 - Ready Light

**Ready Light:** Alerts operator when the fluid has been enabled for dispensing. For 24 volt AC operation. Order one per dispensing station.



# FLUID INVENTORY CONTROL

## PUMP SENTINEL

### FEATURES

- 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
- Allows for controlled dispensing of fluids
- Capable of preventing fluid theft by using switches to enable or disable up to six pumps
- Master key needed to turn system on
- Ideally suited to improve existing FIC systems that have been installed without the protection of air solenoids
- 6' cable to run to junction box
- Small Console footprint: 6.5" L x 5" W x 3" H
- Service bulletin SB3048
- Patent applied for



### MODEL AVAILABLE:

**3110-009** Pump Sentinel Console

### SYSTEM SPECIFICATIONS:

Power Required . . . . . 120 VAC, 60/50 Hz, 50 Watts  
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 feet

Air Solenoid . . . . . 3120-033 (sold separately)

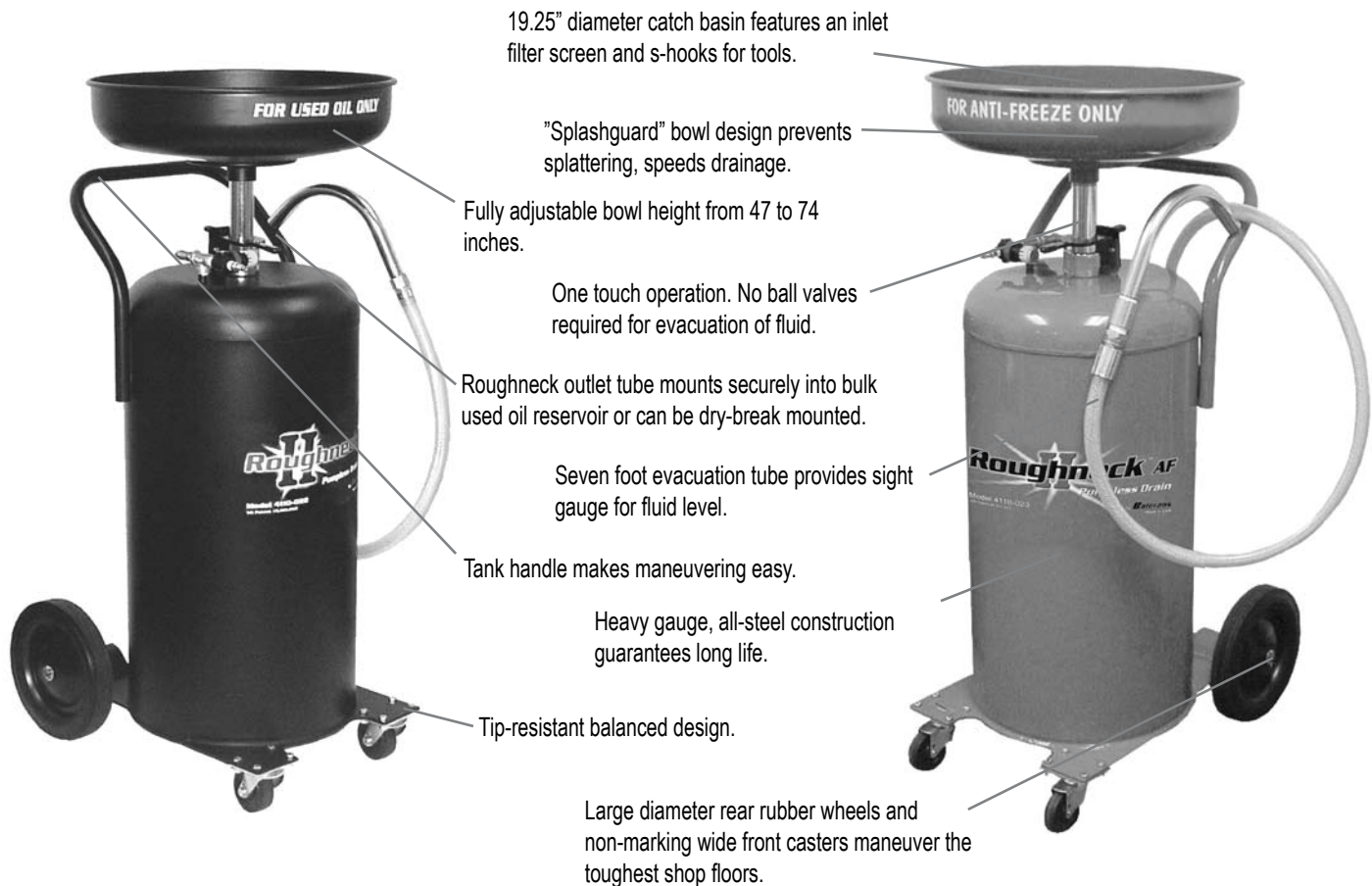
No. 18 AWG wire is recommended for all runs less than 400 feet. For runs from 400 to 625 feet, use wire no. 16 AWG or larger. Normally the 24 VAC wiring can be run around the overhead structure of the building without using conduit.



# USED FLUID EQUIPMENT

## ROUGHNECK II™ SERIES

The Roughneck II™ Series drain is the fast, affordable way to capture, used oil and transfer it into any bulk storage tank or drum using regular shop air. The Roughneck II™ has a patented automatic fluid evacuation valve (US Patent 5,921,262) which eliminates gravity draining, pouring, or the need for an evacuation pump. A seven-foot, quick-disconnect hose remains with the 23 gallon storage tank, keeping it out of the way until it is ready to be used again. A low pressure safety valve prevents over-pressurization, s-hooks provided allow for hanging tool from bowl for quick retrieval and the clear evacuation-hose doubles as a sight level tube showing the fluid level in the steel tank. The Roughneck II™ features non-marking large 10-inch rubber wheels and extra-wide rubber 4-inch front casters to maneuver over the toughest shop floors. The Roughneck II™ is a NFPA approved design. It is delivered in Black for used oils and Green for used antifreeze unless otherwise requested. Other colors available are blue, yellow, white and red, (two-week lead time requested on special color requests). Reference SB4027.



### MODELS AVAILABLE:

- 4110-022 Used Oil Drain
- 4110-023 Used Antifreeze Drain





## PREMIUM DUTY SERIES

### FEATURES

- Capacity: 23 gallons
- 47" to 74" telescoping bowl height
- 19.25" bowl with screen
- Large diameter rubber wheels and wide casters
- Heavy gauge, all steel construction
- Tip resistant balanced design
- Level gauge
- Antifreeze drains painted with green powder coat
- Service bulletin SB4022

### MODELS AVAILABLE:

- 4110-012** Used Oil Drain  
**4110-017** Used Antifreeze Drain



4110-012



4110-017

## SPILLGUARD SERIES

### FEATURES

- Capacity: 16 gallons
- 41" to 65" telescoping bowl height
- 19.25" bowl with screen
- Male drybreak coupler included for top port evacuation
- Drum dolly included
- Level gauge
- Antifreeze drains painted with green powder coat
- Service bulletin SB4020

### MODELS AVAILABLE:

- 4110-010** Used Oil Drain  
**4110-018** Used Antifreeze Drain  
**4110-011** Drumless Used Oil Drain  
**4110-019** Drumless Used Antifreeze Drain



4110-010



4110-018



4110-011

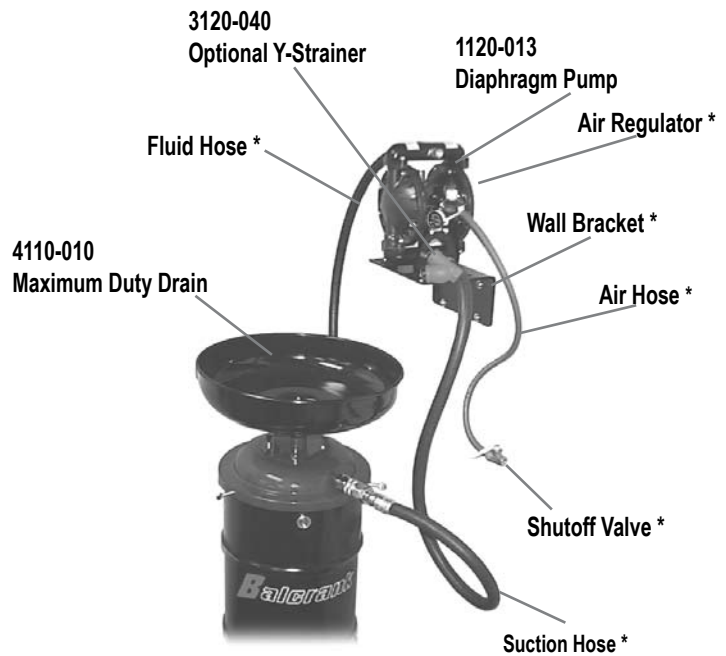


# USED FLUID EQUIPMENT

## USED OIL SYSTEM

### FEATURES

- **1120-013** - 1" Diaphragm Pump (see pg. 24)
- **4140-015** - Used Oil Kit - When used with Balcrank's diaphragm pump 1120-013, this kit provides suction evacuation for the 4110-010 Spillguard Drain. Includes wall bracket, air hose, suction hose, fluid hose with dry-break coupler, air regulator, and air shutoff valve.
- **4110-010** - Spillguard Drain (see pg. 73)



\* Included in Kit 4140-015

## OVERFILL PREVENTION



OUTFIT	4520-001	4520-002
DESCRIPTION	Overfill Prevention	Overfill Prevention
FEATURES	Auto-shutoff Non-electric Sensing Tube Pump Controller -	Auto-shutoff Non-electric Sensing Tube Pump Controller Audible Alarm

## TANK ACCESSORIES

**Tank Level Gauges:** Mount on tank bung fitting. Display dial shows the remaining fluid depth in inches as the attached float level changes. For stationary tanks only. Not recommended for mobile lubers.

4520-003	60"
4520-004	36"
4520-005	32"
4520-009	72"



## USED OIL DRAINS



### 4110-006 - Five Gallon Lift Oil Drain.

#### Features:

- 5 gallon capacity
- Set screw to hold adjustable funnel in place up to 64" height

4310-006 - Dolly for 4110-006 drain.

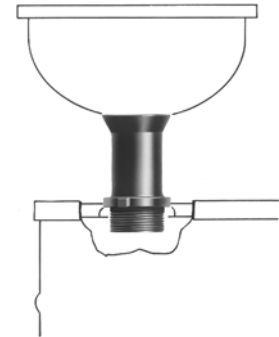
4111-001 - Replacement funnel and tube assembly for 4110-006.



### 4110-005 - Pedestal Drain.

#### Features:

- Light weight portable design
- Large four gallon bowl
- 56" to 86" telescoping stand with convenient latch lock
- Bowl outlet has resistant neoprene seal to prevent leakage



### 4111-002 - Oil Drain Adapter.

For draining oil into 2" piping systems or into containers with 2" bung thread fittings. For use with model 4110-005 Pedestal Drain.



### 4140-006 - Transmission Drain Pan.

#### Features:

- 23.5" x 21.5" x 5"
- Durable impact and heat resistant plastic
- Used with any lift drain having 7" or larger funnel



### 831886 - Replacement Drain Bowl

#### Features:

- Strainer included
- Splashguard design
- 19 1/4" diameter
- Black high density polyethylene construction



4140-016



4140-023

### 4140-016 - Coupler

### 4140-023 - Nipple

Quick disconnect coupling rated for vacuum or up to 3,000 psi fluid pressure, with liquid-tight sealing of both halves when disconnected. 3/4" NPT line size.

# USED FLUID EQUIPMENT

## TRUCK DRAINS

### FEATURES:

- Capacity: 26 gallons
- Dimensions: 9"H x 24"W x 36"L
- 1" NPT drain port with plug
- Large 8" diameter primary wheels for easy rolling
- Front caster plus large steel tubular U-handle for excellent under the vehicle maneuvering
- Upper screen with perimeter splash plate and recessed lift handle
- Double baffles to stabilize fluid during movement
- Premium quality powder coat finish (safety yellow)
- Evacuation kit 4120-002 with nipple and male dry break coupler available



4120-002

### MODEL AVAILABLE:

4120-006 Truck Drain



## ROLLING PIT DRAIN

### FEATURES

- Capacity: 38 gallons
- Features metal catch screen and anti-splash baffle
- Two outlet ports with ball drain valve and cam-lock coupler
- 3" diameter rollers are mounted to **safely** accommodate a pit width of 34.5" to 48"
- SB 4049

### MODEL AVAILABLE:

4140-028 Pit Drain



### 4140-012 - Tandem Pit Drain Connector.

2' x 1" connector hose with female cam lock connectors on both ends. Used to connect two rolling pit drains for evacuation from one side.



### 4140-013 - Evacuation Hose. 2' x 1"

evacuation hose with female cam lock connectors to attach to rolling pit drain and 1" NPT(M) to attach to the used oil evacuation manifold or used oil pump.



**4140-014 - Tandem Pit Drain Kit.** Connects two tandem Pit Bosses in a common pit for flow-through evacuation. Consists of connector hose, shutoff valve, pipe nipple, bushing, cam lock nipple, and cam lock cover.



**4140-029 - Outfit Kit.** Includes ball valve with nipple, quick couplers, and a dust cap.



## FLUID EVACUATORS

### FEATURES

- Capacity: 17 gallons
- 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 six 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
- Clear bowl capacity: 2 gallons
- Service bulletin SB4045



### MODELS AVAILABLE:

- 4140-024** Oil Evacuator
- 4140-025** Oil Evacuator with Clear Dome and Mercedes Adapter

### SPECIFICATIONS

Tank capacity . . . . .	17 gallons
Max. draining capacity . . . . .	12 gallons
Air pressure for vacuum . . . . .	100 psi
Depressurization time . . . . .	2-2.5 minutes
Noise level . . . . .	75 DbA
Suction rate . . . . .	0.4-0.5 gpm
Suction hose . . . . .	6.5 ft.
Draining hose . . . . .	6.5 ft.
Dimensions . . . . .	23" x 15" x 34"



# USED FLUID EQUIPMENT

## evac FLUID EVACUATOR

The Balcrank **evac** is an environmentally friendly product, designed for high volume shops. The **evac** removes petroleum based products through any fill plug or dipstick. Top of the engine evacuation offers a speedy alternative to removing skid plates, splash guards, differential covers as well as eliminating potential problems that stripped drain plugs with aluminum engine pans may cause. The technician simply replaces the vehicle's dipstick or fill cap with the evacuation wand that best fits the opening. He then presses the start button and moves on to his next task; the **evac** system automatically removes the fluid, shuts itself off and sounds an end of cycle tone. The used oil is pumped directly to a bulk storage tank and is never handled by the technician or exposed to the atmosphere. The oil change can be completed while the one technician is completing the other automobile maintenance services, all without a pit or a lift. **evac** will reduce your overhead, is a green product and will pay for itself typically within 3 to 6 months.

### FEATURES

- Uses less than 1/5 the energy of air operated devices
- Includes four evacuation wands (metal and flexible), wall mounting kit, 20' suction hose
- Evacuation wands equipped with quick-disconnect couplers
- Service bulletin SB4050



### MODELS AVAILABLE:

- 4140-040** evac Fluid Evacuator
- 4140-042** Optional .315" x 4' Evacuation Wand for large fleet applications
- 4140-043** Replacement evacuation wand kit



### SPECIFICATIONS

Electric motor . . . . .	110 VAC/60Hz
Max. draining capacity . . . . .	1.6 qts per minute
Horizontal suction . . . . .	33'
Vertical suction . . . . .	5'
Horizontal delivery . . . . .	160'
Vertical delivery . . . . .	10'
Noise level . . . . .	Less than 70 DbA
Fluid inlet . . . . .	.3/4"
Fluid outlet . . . . .	.3/4"
Dimensions . . . . .	13.7" x 11.6" x 13.3"
Suitable fluids . . . . .	Motor Oil, ATF





# ACCESSORIES

# ACCESSORIES

## FILTER REGULATOR LUBRICATOR

### FEATURES AND BENEFITS

#### Compressed Air Preparation Means Better System Performance

- Use filters to clean air and remove moisture.
- Lubricators inject oil mist into compressed air to improve performance and life of air-operated pumps.
- Use pressure regulators to control fluid flow rates and to set correct system operating pressures.

#### 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 psig 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 psig.
- Optional automatic drains available for Filters.
- Available as individual units or assembled.
- In line mounting using standard piping and nipples.

F-R-L Size Series	Recommended Max. SCFM
1/4" NPT(F) (mini)	15
1/4" NPT(F)	40
3/8" NPT(F)	60
1/2" NPT(F)	90
3/4" NPT(F)	100

### SPECIFICATIONS

#### STANDARD SERIES

##### Filters:

40 micron depth style filter  
Large filter element surface  
Heavy duty zinc die cast body  
Metal bowl with sight glass  
Max. primary pressure 250 psi  
Optional automatic filter drain

##### Regulators:

Heavy duty zinc die cast body  
Max. primary pressure 250 psi  
2-125 psig adjustment range  
Pressure gauge standard  
Two high flow 1/4" gauge ports

##### Lubricators:

Heavy duty zinc die cast body  
Max. primary pressure 250 psi  
Metal bowl with sight glass  
Proportional oil delivery  
Precision needle valve  
Bowl can be filled while air line is under pressure  
Transparent sight dome for 360° visibility

##### 1-Piece Combo Units:

Excellent water removal efficiency  
40 micron depth style filter  
Large filter element surface  
Heavy duty zinc die cast body  
Metal bowl with sight glass  
Max primary pressure 250 psi  
2-125 psig adjustment range  
Pressure gauge standard  
Two high flow 1/4" gauge ports

### SPECIFICATIONS

#### MINI SERIES

##### Filters:

Excellent water removal efficiency  
5 micron depth style filter element  
Heavy duty zinc die cast body  
0-250 psi pressure rating - Zinc die cast bowl  
0-150 psi pressure rating - Poly bowl  
Auto drain

##### Regulators:

Heavy duty zinc die cast body  
Max. primary pressure 250 psi  
2-125 psig regulation range  
Pressure gauge standard  
Full flow gauge ports

##### Lubricators:

Heavy duty zinc die cast body  
0-150 psi pressure rating  
Proportional oil delivery  
Precision needle valve  
Transparent sight dome for 360° visibility  
High strength polycarbonate bowl

### F-R-L ACCESSORIES

Model	Accessory
3260-058	Auto Drain Kit
3261-005	Gauge 0-300 1/4" NPT(M)
3261-006	Gauge 0-160 1/8" NPT(M) (For mini only)
3261-007	Mounting Bracket - 1/4" Mini Models
3261-008	Mounting Bracket - 1/4", 3/8", 1/2" Filters, Regulators, or Lubricators
3261-009	Mounting Bracket - 3/8" 1/2", 3/8" Filters, Regulators, or Lubricators
3261-010	Mounting Bracket - 1/4", 3/8", 1/2" 2- or 3-Unit Combos
3261-011	Mounting Bracket - 3/8" 1/2", 3/8" 2- or 3-Unit Combos



## F-R-L

### 1-PIECE FILTER/REGULATORS

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.



Model	Line Size
3260-060	1/4" NPT(F) mini, poly bowl
3260-033	1/4" NPT(F) mini, zinc bowl
3260-034	1/4" NPT(F)
3260-035	3/8" NPT(F)
3260-036	1/2" NPT(F)
3260-037	3/4" NPT(F)

### 2-PIECE PIGGYBACK F-R-L UNITS

See complete specification on opposite page. Features automatic drain all sizes.



Model	Line Size
3260-059	1/4" NPT(F) mini, poly bowl
3260-048	1/4" NPT(F) mini, zinc bowl
3260-049	1/4" NPT(F)
3260-050	3/8" NPT(F)
3260-051	1/2" NPT(F)
3260-052	3/4" NPT(F)

### 3-PIECE COMBO F-R-L UNITS

Full air line control and conditioning for pump operation. Select from 1/4" through 3/4" and miniature sizes. Manual drain. (Automatic on mini).



Model	Line Size
3260-053	1/4" NPT(F) mini
3260-054	1/4" NPT(F)
3260-055	3/8" NPT(F)
3260-056	1/2" NPT(F)
3260-057	3/4" NPT(F)

### AIR LINE FILTERS

Use air filters to remove moisture and particulate solids from air supply lines. Manual drain. (Automatic on mini).



Model	Line Size
3260-038	1/4" NPT(F) mini
3260-039	1/4" NPT(F)
3260-040	3/8" NPT(F)
3260-041	1/2" NPT(F)
3260-042	3/4" NPT(F)

### AIR REGULATORS

Use air regulators to individually adjust supply pressure to air-operated pumps. Includes gauge.



Model	Line Size
3260-028	1/4" NPT(F) mini
3260-029	1/4" NPT(F)
3260-030	3/8" NPT(F)
3260-031	1/2" NPT(F)
3260-032	3/4" NPT(F)

### AIR LUBRICATORS

Use air lubricators to maintain airborne oil mist for pumps to prolong operating life and reduce wear.



Model	Line Size
3260-043	1/4" NPT(F) mini, poly bowl
3260-044	1/4" NPT(F)
3260-045	3/8" NPT(F)
3260-046	1/2" NPT(F)
3260-047	3/4" NPT(F)

# ACCESSORIES

## HOSE END CONTROLS



Model	3340-006	3340-007	3340-010	3340-009
Description	Air Chuck	Radiator Faucet	Double Chuck Tire Inflator	Single Chuck Tire Inflator
Style	Short Stub Length Single Chuck Ball Foot	Thumb Valve Aluminum Spout	Double Outlet Chuck	Straight-On Single Outlet Chuck
Thread Size	1/4" NPT(F)	1/4" NPT(F)	1/4" NPT(F)	1/4" NPT(F)
Maximum Operating Pressure	300 psi	300 psi	300 psi	300 psi
Hose Length	—	—	12"	12"
Tire Pressure Gauge	—	—	10-90 psi	10-90 psi

## 2230-015 - CONSOLE STOP



Unique console stop is designed to attach around the hose of any control handle and fit snugly into the roller hose outlets of the Island Lube Console and Lube Console Extension.

## AIR LINE QUICK COUPLERS

1/4" and 3/8" automotive standard styles. For quick connection and detachment of pump air supply hoses. Also acts as a swivel to prevent hose twisting.

3270-005



3270-004



3270-003

3270-001



3270-002

## HOSE STOPS

**Hose End Stops:** Cushion hose return prevent excessive retraction.



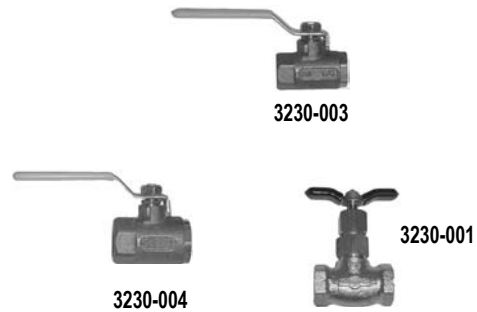
Model	Hose I.D.	Reel Series
2230-009	1/4"	Signature/Premium
2230-010	3/8", 1/2"	Signature/Premium
2230-011	3/4"	Premium Extra Volume
2230-012	1"	Premium Extra Volume

Model	Description	Thread Size
3270-001	Nipple	3/8" NPT(M)
3270-002	Coupler	3/8" NPT(F)
3270-003	Coupler	1/4" NPT(F)
3270-004	Nipple	1/4" NPT(M)
3270-005	Nipple	1/4" NPT(F)

## VALVES

### IN-LINE HAND OPERATED VALVES

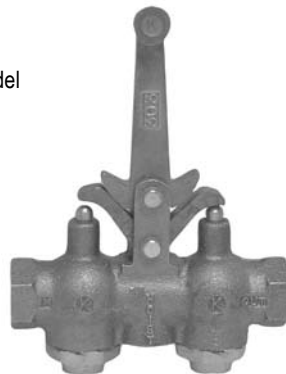
Model	Pressure Rating psi	Thread Size
3230-003	200 (air)*	1/4" NPT(F)
3230-004	200 (air)*	1/2" NPT(F)
3230-006	2,000	3/8" NPT(F)
3230-002	2,000	1/2" NPT(F)
3230-007	2,000	3/4" NPT(F)
3230-001	10,000	1/2" NPT(F)
3230-008	2,000	1" NPT(F)



\*Safety bleed type valves. Air exhausts on outlet side when valve is closed.

### 4451-001 - HOIST VALVE

Valve for raising and lowering air lift Model 4450-001 (page 33).



# ACCESSORIES

## FITTINGS

### Swivel Unions



Model	3270-025	3270-046	3270-047	3270-048
Material	Steel	Steel	Steel	Steel
Max. W.P.	4,000	3,900	3,800	3,800
Thread Size (M)	1/4" NPT	3/8" NPT	1/2" NPT	1" NPT
Thread Size (F)	1/4" NPT	1/2" NPT	3/4" NPT	3/4" NPT

### Hex Nipples



Model	3270-041	3270-043	3270-045
Material	Brass	Brass	Brass
Max. W.P.	1,000	1,000	1,000
Thread Size (M)	1/4" NPT	1/2" NPT	1" NPT

### Bushings



Model	3270-016	3270-052	3270-053	3270-054
Material	Steel	Steel	Steel	Steel
Max. W.P.	3,000	3,000	3,000	3,000
Thread Size (F)	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT
Thread Size (M)	1/2" NPT	1/2" NPT	3/4" NPT	1" NPT

### 90° Swivel Unions



Model	3270-050	3270-051
Material	Steel	Steel
Max. W.P.	4,000	4,000
Thread Size (A)	3/8" NPT(M)	1/2" NPT(M)
Thread Size (B)	3/8" NPT(F) Sw	1/2" NPT(F) Sw

### Adapters - Male 1/2" - 27 Threads



Model	3270-007	3270-033
Material	Brass	Brass
Max. W.P.	2,500	3,400
Thread Size	1/2" - 27 (M)	1/2" - 27 (M)
Thread Size	1/8" NPT(F)	1/2" - 27 (M)

### Adapters - Female 1/2" - 27 Threads



Model	3270-022	3270-021	3270-032	3270-013
Material	Steel	Steel	Steel	Steel
Max. W.P.	3,400	2,500	2,200	4,900
Thread Size	1/2" - 27 (F)	1/2" - 27 (F)	1/2" - 27 (F)	1/2" - 27 (F)
Thread Size	1/8" NPT(F)	1/4" NPT(M)	3/8" NPT(M)	1/2" NPT(M)



# OIL PUMPS

## AIR OPERATED

### FEATURES

- 2" adjustable bung adapter included
- Built-in pressure relief
- Quiet operation
- Low air consumption
- Compact design for tight installations

### SPECIFICATIONS

Air motor bore . . . . .	2.75"
Stroke . . . . .	2"
Operating air pressure range. . . . .	60-145 psi
Air consumption (SCFM, 120 psi air). . . . .	10
Noise level. . . . .	85 DbA
Air inlet NPT(F) . . . . .	1/4"
Fluid inlet NPT(F) . . . . .	1"
Fluid outlet NPT(F) . . . . .	3/4"
Wetted materials . . . . .	Zinc Plated Carbon Steel, Aluminum, Nitrile, Brass



### MODELS AVAILABLE:

<b>T112</b>	1:1 - 16 gpm
<b>T312</b>	3:1 - 6.5 gpm
<b>T512</b>	5:1 - 4 gpm

### 6910-003 - 3:1 Mobile Dispense Outfit.

#### Features:

- 3:1 Bare Pump
- Bung Adapter
- Mechanical Control Handle
- 8' Fluid Hose
- 23" Suction Tube
- Filter-Regulator
- 16 Gallon Drum Cart

### 6910-004 - 3:1 Mobile Dispense Outfit with 30 Gallon Drum Cart

Same features as 6910-003 with 30-gallon cart



## AIR & HAND OPERATED



### 1131-020 - 1/2:1 Air Operated Pump.

#### Features:

- 1/4" air regulator with on/off trigger
- Suction Tube
- 30-100 psi operating range
- For diesel, engine oils, hydraulic oils, gear oils, anti freeze, degreasers
- Polypropylene, stainless steel, buna



### 1300-001 - Economy Barrel Pump.

#### Features:

- 16 strokes per gal
- Suction Tube
- Bung Adapter
- For noncorrosive lubricants, solvents, agricultural and industrial chemicals
- Steel and brass



### 1300-019 - Piston Hand Operated Pump.

#### Features:

- 12 strokes per gal
- Suction Tube
- Bung Adapter
- For diesel, engine oils, hydraulic oils, gear oils, antifreeze, degreasers, w/ washer fluid
- Polypropylene, stainless steel, buna



### 1300-021 - Hand Operated Pump.

#### Features:

- 4' fluid hose
- Suction Tube
- 5 gal drum size
- For machine oils, gear oils, antifreeze



### 1300-022 - High Flow Rotary Pump.

#### Features:

- 15 gal. of fluid per 135 revolutions
- Suction Tube
- Bung Adapter
- Cast iron, steel, buna

### 1300-020 - Rotary Pump.

#### Features:

- 7 gal. of fluid per 100 revolutions



### 1300-023 - Hand Operated Pump.

#### Features:

- 4' fluid hose
- Includes Bung Adapter and Rieke Adapter
- Suction Tube
- 5 gal drum size
- For engine oils, gear oils, diesel, anti-freeze



### 1300-026 - Suction Gun.

#### Features:

- Heavy duty construction
- Needs no priming
- 11" flexible hose included
- Used for all purpose draining or filling



### P-3 - Air Operated Power-Lube.

#### Features:

- 50:1 ratio
- Includes follower plate, drum cover, and booster handle with z-swivel
- 13' fluid hose
- 25-35 lb keg size
- 1/2 lb./min max. flow
- Quiet operation - 85 DbA
- Low air consumption - 9 SCFM



### P-6 - Air Operated Maxi-Lube.

#### Features:

- 50:1 ratio
- Includes follower plate, drum cover, and booster handle with z-swivel
- 13' fluid hose
- 120 lb keg size
- 1/2 lb./min max. flow
- Quiet operation - 85 DbA
- Low air consumption - 9 SCFM

# HOSE REELS

## RETRACTA REELS

### FEATURES

- Easy, low cost installation - no need for heavy installation brackets
- Safe storage system that keeps hoses off the floor
- Lightweight - approximately 22 lbs with hose
- Low rewind tension allows for easy hose "pull out"
- 10 year limited warranty

### BB100 - Bracket

Optional bracket for mounting Retracta reels on a tank, floor, or high wall.



### AW100 - Air/Water Reel.

#### Features:

- 3/8" x 55'
- 250 psi working pressure
- 3/8" NPT(F) inlet
- 1/4" NPT(M) outlet
- 3 1/2" inlet hose



### CW100 - Cold Water Reel.

#### Features:

- 1/2" x 50'
- 150 psi working pressure
- 3/8" NPT(F) inlet
- Hose nozzle outlet
- 3 1/2" inlet hose

## LIGHT CORD REELS



### 2510-009 - Light Cord Reel.

#### Features:

- 50' cord length, 16 gauge
- **Unique mounting design which allows for portability if needed**
- Impact resistant construction
- Rough service lamp
- 10 amp electrical outlet
- 13 watt fluorescent lamp
- Adjustable cord stop
- Reset-able circuit breaker
- UL & CUL listed



### 2510-010 - Light Cord Reel.

#### Features:

- 50' cord length, 18 gauge
- Powder coated steel housing
- Protected on/off switch
- Rough service lamp
- Adjustable spring steel hook
- Adjustable cord stop
- Reset-able circuit breaker

832556 - Replacement light kit for 2510-009

832557 - Replacement light kit for 2510-010



## GREASE GUNS



### 5200-006 - Lever Style Grease Gun.

Features:

- 14 oz capacity
- Filling options: cartridge or bulk grease
- 10,000 max working pressure



### 5200-007 - Pistol Style Grease Gun.

Features:

- 14 oz capacity
- Filling options: cartridge or bulk grease
- 5,000 max working pressure



### 5200-010- Air Operated Continuous Feed Grease Gun.

Features:

- Patented 360° rotating cartridge
- Heavy duty professional grade construction
- Three way filling
- Includes air vent and filler plug
- 2,400-6,000 psi max working pressure



### 5200-011- Battery Operated Grease Gun.

Features:

- Powerful 18 volt batteries (#832352)
- 1-hour Quick Charger (#832351)
- Three way filling
- 42" Whip hose with coupler
- Bend restrictors on hose
- Shoulder strap included
- Carrying case
- 9,500 psi max working pressure



### 5200-012- Professional Series Grease Gun.

Features:

- Short stroke grip action for easy use
- Heavy duty professional grade construction
- Three way filling
- Includes air vent and filler plug
- Whip hose and metal spout standard



### 5200-013- Mini Grease Gun.

Features:

- Short stroke grip action for easy use
- Heavy duty professional grade construction
- Three way filling
- Includes air vent and filler plug
- Whip hose, straight spout and metal hose extension standard



### 5400-003- Bearing Packer.

Features:

- Easy to use with hand or air operated grease guns
- Bearing capacity: minimum 25/64" ID; maximum 5-5/16" OD

### 5320-001 - 18" Flexible Extension

Flexible whip hose extensions with crimped 1/8" NPT(M) fittings on each end. For grease applications up to 3,000 psi.



# MEASURES, FILLERS & DRAINS

## MEASURES



### 6110-001 - 5 qt Measure

Features:

- 13.5" flex spout
- 24 gauge galv. steel
- Black powder coat finish



### 6110-002 - 8 qt Measure

Features:

- 13.5" flex spout
- 24 gauge galv. steel
- Black powder coat finish

## USED OIL DRAINS



### 6330-004 - Drain

Features:

- 6 gal capacity
- 19 1/4" x 5 1/2"
- Galvanized metal



### 6330-005 - Drain

Features:

- 3 1/4 gal capacity
- 16" x 4"
- Galvanized metal

## FILLERS



### 6110-017 - Battery Filler

Features:

- 2 1/4 qt capacity
- Bronze plastic finish



### 6111-002 - Replacement Spout for Battery Filler

Features:

- Black plastic



### 6110-010 - Radiator Filler

Features:

- 12 qt capacity
- Black plastic

## BOTTLES



### 6420-008 - Oil Bottle Kit

Features:

- 1 qt capacity per bottle
- 8 bottles with spouts and dust caps
- Metal basket



### 6420-009 - Metal Basket

Features:

- Holds 8 1 qt bottles



### 6420-007 - Spout and Dust Cap

Features:

- 8 spouts and dust caps for 1 qt bottles



### 6420-006 - Plastic Bottle

Features:

- 1 qt capacity

# PIPING SPECIFICATIONS

## PIPING SPECIFICATIONS

Use these guidelines for selecting line sizes (recommended minimum diameters are given), tubing wall thickness and piping schedules for lubrication distribution systems. Air and water recommendations are for supply of air/water hose reels or for supply 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. Grease pump maximum pressures are reduced because they are pressure-limited by tubing strength and hose working pressure, as described in the footnotes.

### Air & Water 0-200 ft.

Maximum Pressure	Tubing		Pipe	
	OD. <sup>(3)</sup>	Wall <sup>(2)</sup>	Size <sup>(3)</sup>	Type
150 psi	5/8"	0.025"	1/2"	Sch. 40
250 psi	5/8"	0.025"	1/2"	Sch. 40

### Air & Water over 200 ft.

Maximum Pressure	Tubing		Pipe	
	OD. <sup>(3)</sup>	Wall <sup>(2)</sup>	Size <sup>(3)</sup>	Type
150 psi	3/4"	0.025"	3/4"	Sch. 40
250 psi	3/4"	0.025"	3/4"	Sch. 40

### Motor Oil, Gear Oil, & ATF 0-200 ft.

Pump	Ratio	Max Pressure <sup>(4)(5)</sup>	Tubing		Pipe	
			OD.	Wall <sup>(2)</sup>	Size	Type
Diaphragm	1:1	120 psi	3/4"	0.025"	3/4"	Sch. 40
Bobcat™	1.3:1	200 psi	3/4"	0.025"	3/4"	Sch. 40
Panther®	3:1	450 psi	3/4"	0.025"	3/4"	Sch. 40
Panther®	5:1	750 psi	3/4"	0.025"	3/4"	Sch. 40
Tiger®	5:1	750 psi	1"	0.025"	1"	Sch. 40
Lion™	5:1	750 psi	1-1/4"	0.025"	1-1/2"	Sch. 40
Lion™	10:1	1500 psi	3/4"	0.042"	3/4"	Sch. 40

### Motor Oil, Gear Oil, & ATF over 200 ft.

Pump	Ratio	Max Pressure <sup>(4)(5)</sup>	Tubing		Pipe	
			OD.	Wall <sup>(2)</sup>	Size	Type
Panther®	3:1	450 psi	1"	0.035"	1"	Sch. 40
Panther®	5:1	750 psi	1"	0.035"	1"	Sch. 40
Tiger®	5:1	750 psi	1-1/4"	0.035"	1-1/4"	Sch. 40
Lion™	5:1	750 psi	1-1/2"	0.035"	1-1/2"	Sch. 40
Lion™	10:1	1500 psi	1"	0.049"	3/4"	Sch. 40

### Grease 0-200 ft.

Pump	Ratio	Max Pressure <sup>(4)(5)</sup>	Tubing		Pipe	
			OD.	Wall <sup>(2)</sup>	Size	Type
Jet Power™	50:1	6000 psi	5/8"	0.083"	Not Recommended	
Lion™	50:1	5000 psi	3/4"	0.125"	Not Recommended	

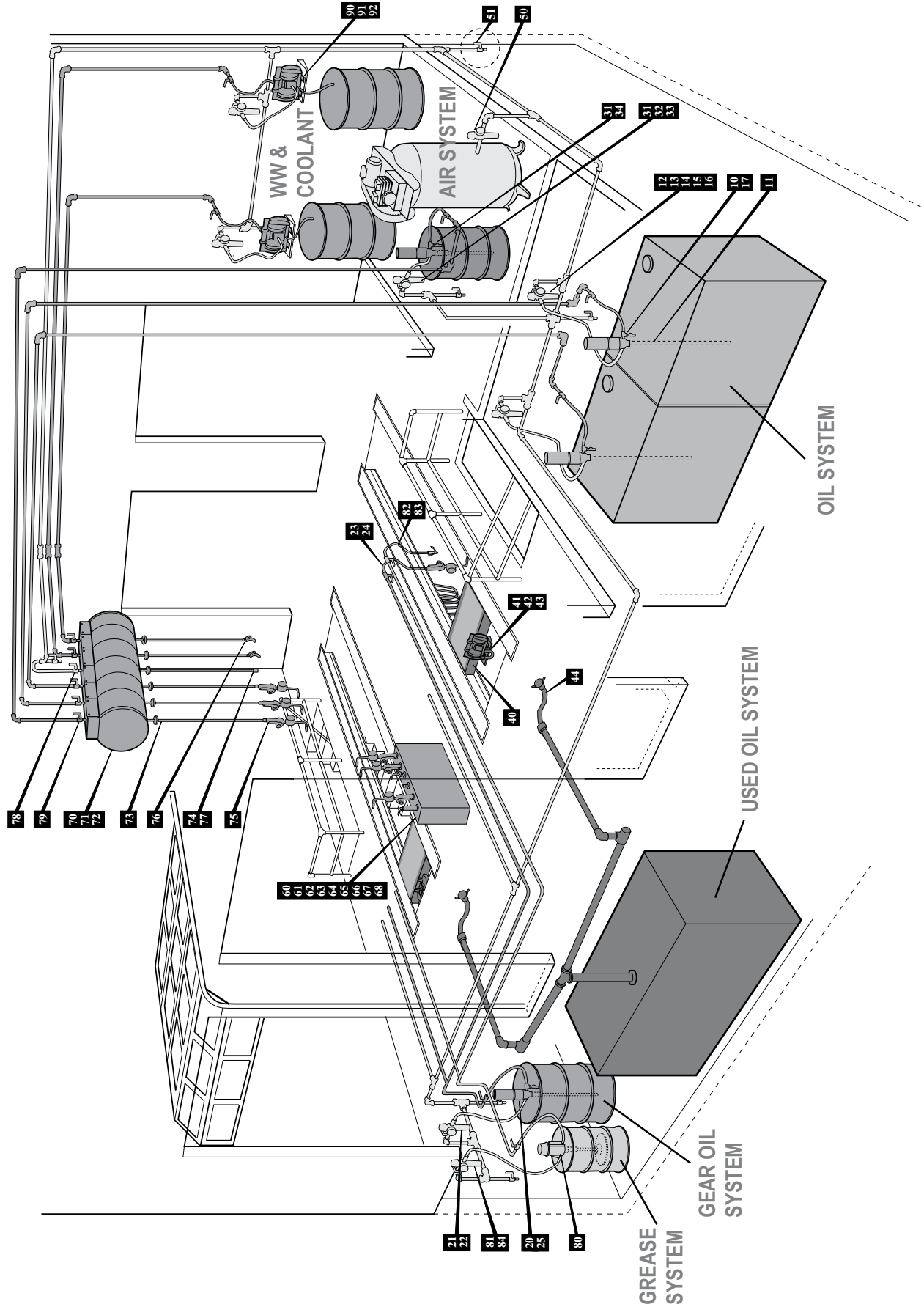
### Grease over 200 ft.

Pump	Ratio	Max Pressure <sup>(4)(5)</sup>	Tubing		Pipe	
			OD.	Wall <sup>(2)</sup>	Size	Type
Jet Power™	50:1	5000 psi	3/4"	0.125"	Not Recommended	
Lion™	50:1	5000 psi	3/4"	0.125"	Not Recommended	



- (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 yield strength.
- (3)....Multiple air-operated pumps supplied by a common air line may require larger line sizes. Consult your Balcrank distributor for efficient size recommendations.
- (4)....Minimize the number of Elbows in grease line to reduce pressure drop. Use radius bends in preference to Elbows where installation permits.
- (5)....When thermal expansion of oil may be present, use a pump pressure relief valve.

# TYPICAL 2-BAY QUICK LUBE LAYOUT



# TYPICAL 2-BAY EQUIPMENT LIST

## OIL PUMP SYSTEMS

Item	Model	Description	Qty.
10	1130-015	Panther HP® 3:1 Pump	2
11	4410-027	Hose & Tube Kit	2
12	3260-049	1/4" FRL	2
13	3230-002	1/2" Fluid Shut-off Valve	2
14	3270-003	1/4" Air Coupler	2
15	3270-039	1/4" Air Nipple	2
16	3230-003	1/4" Air Shut-off Valve	2

## HOSE CONSOLE DISPENSING<sup>1</sup>

Item	Model	Description	Qty.
60	2600-001	Hose Console	1
61	8134-030	3/8" Air/Water Hose	2
62	8241-030	1/2" Oil Hose	5
63	2230-010	Hose Stop	2
64	3330-037	PGM-40 Control Handle	5
65	3340-007	WW/Antifreeze Bibb	1
66	3340-006	Air Chuck	1
67	3230-003	1/4" Air Shut-off Valve	1
68	3230-002	1/2" Fluid Shut-off Valve	6

## GEAR OIL PUMP SYSTEMS

Item	Model	Description	Qty.
20	1130-016	Panther HP® 5:1 Pump	1
21	3260-049	1/4" FRL	1
22	3230-002	1/2" Fluid Shut-off Valve	3
23	3320-002	Non-metered Handle	2
24	3230-003	1/4" Air Shut-off Valve	1

## HOSE REEL DISPENSING<sup>1</sup>

Item	Model	Description	Qty.
70	2230-001	End Panel Set	1
71	2230-008	Channel for 6 Reels	1
72	2230-002	Mounting Bracket	3
73	2220-008	Sig. Oil Reel 30' x 1/2"	5
74	2220-010	Sig. Air/W Reel 30' x 3/8"	1
75	3330-054	PGE-55 Control Handle	3
76	3340-007	WW/Antifreeze Bibb	2
77	3340-006	Air Chuck	1
78	3230-003	1/4" Air Shut-off Valve	1
79	3230-002	1/2" Fluid Shut-off Valve	5

## ATF PUMP SYSTEMS

Item	Model	Description	Qty.
30	1130-015	Panther HP® 3:1 Pump	1
31	3260-049	1/4" FRL	1
32	3230-002	1/2" Fluid Shut-off Valve	1
33	3230-003	1/4" Air Shut-off Valve	1

## GREASE PUMP SYSTEMS

Item	Model	Description	Qty.
80	1151-004	Panther HP® 50:1 Pump	1
81	3260-034	1/4" Filter-Regulator	1
82	3230-001	1/2" HP Shut-off Valve	3
83	3310-026	Grease Handle	2
84	3230-003	1/4" Air Shut-off Valve	1

## USED OIL SYSTEMS

Item	Model	Description	Qty.
40	4140-011	Rolling Pit Drain	2
41	1121-001	Used Oil Evac Kit	1
42	3260-034	1/4" Filter-Regulator	1
43	3230-003	1/4" Air Shut-off Valve	1
44	4140-013	Evacuation Hose	2

## WW & COOLANT SYSTEMS

Item	Model	Description	Qty.
90	1121-006	1/2" Diaphragm Pump Outfit	2

## COMPRESSED AIR SYSTEMS

Item	Model	Description	Qty.
50	3260-037	3/4" Filter-Regulator	1
51	3230-003	LP Air Bleed Valves	?

Note 1: Select hose console or hose reel dispensing based on facility needs and/or user preference

# NOTES

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