





## The History of Balcrank

Balcrank began in 1906 in the heart of Cincinnati, Ohio's "Machine Tool Colony" as the Cincinnati Ball Crank Company. The first products produced by Balcrank were handwheels and cranks used by the machine tool industry. That same year Balcrank became the first mass producer of starting cranks for automobiles. In 1908 Balcrank entered the automotive industry with the manufacturing of steering drag links. The steering drag links were an immediate hit. Almost every car manufacturer adopted these Balcrank drag links and for the first time, steering a car became an easy task, instead of a laborious chore.

To follow its drag links were ball-sockets for spark and throttle control. Next came the famous Balcrank "bumpers". From that time on, Balcrank's place in the automotive picture was set.

Always looking forward, in 1922 Balcrank entered the lubrication field. The company secured both the patents and services of Clyde Butler, one of the nation's leading lubrication engineers. His inventions made Balcrank a pioneer in the field. He left behind scores of inventions which the world has adopted and still uses today.

During World War II, Balcrank was one of the very first to offer its plant services and facilities for government use, and at the end of the war, Balcrank had an "E" flag with four stars, which was indeed an honor. People always referred to the company as Ball Crank, so in 1943 the Board of Directors voted to change the name of the company to Balcrank, Inc.

Balcrank is one of the oldest manufacturers of automotive products. Many of the methods and devices used in lubrication service today stem from the basic patents of Balcrank and its engineers.

Balcrank now resides in the Blue Ridge Mountains of Weaverville, NC, continuing its rich history, and is still at the heart of the American automotive industry. Since its beginning, Balcrank has been providing its customers with the best products for the ever changing automotive and industrial markets that exist today. Balcrank and its employees want to thank you for your business, and look forward to the opportunities of tomorrow.





## Balcrank's Achievements



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



- 1906 First in mass production of machine handles for the machine tool industry.
- 1908 First in the mass production of the ball-socket type of tie-rod and drag-link steering connections.
- 1909 First in mass production of starting cranks for automobiles
- 1920 First and only mass producer of tubular bumpers for automobiles
- 1923 First patents on hydraulic coupler and fittings now universally used
- 1923 First high pressure foot operated volume grease gun - Model D - known the world over
- 1924 First high pressure air operated volume grease gun
- 1926 First power driven lubricator dispensing from the original grease container
- 1927 First air operated, high pressure, single shot, 116 power gun, Model PC
- 1928 First multiple outlet super station grease systems with grease storage containers built in 100 and 500 lb. capacities, Model C and ML



- 1929 First consistent air primed high-pressure volume gun for viscous lubricants, Model ZZ
- 1933 First level gun for "in line" operation on push type fittings
- 1935 First drum shell covers with pumps mounted for housing and dispensing from original grease containers



- 1943 First complete pneumatic lubrication center housed underground.
- 1948 Engineered and released new Jet Power Pump
- 1952 First pressure-matic adapter for Hi and Lo pressure lubrication
- 1958 First large capacity reels offered in a deluxe cabinet
- 1963 First pre-set oil meters for large capacity crankcase fill
- 1979 First high pressure safety handle. Must be attached to fittings
- 1987 Introduced the Director Jr. simplified inventory control system
- 1996 Introduced the Roughneck self evacuating drain
- 1999 Introduced Panther 3:1 and 5:1 air operated pumps
- 2003 Introduced Tiger 5:1 pump
- 2006 Introduced inductor pumping systems for bulk grease dispensing
- 2007 Introduced Fusion Wireless Fluid Inventory Control Systems
- 2008 Introduced a full range of Diesel Exhaust Fluid (DEF) dispensing systems
- 2009 Balcrank acquired by the Moratiel Group, one of the largest and truly global enterprises focused on fluid transfer systems for the automotive and industrial markets.
- 2010 Introduced Lynx series of pumps and outfits. 1:1, 2:1, 3:1 & 5:1
- 2010 Introduced ILM (in-line metered) series handles in both analog and electronic display



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## Fluid Dispensing Systems

# PUMPS



# PISTON PUMPS | LYNX SERIES



LYNX 1:1



LYNX 2:1

SELECTION GUIDE	1110-010	1160-009
LINE LENGTH	100 ft	250 ft
FREE FLOW, GPM @150 PSI AIR	10.6	8.2
FLUID TYPES	Petroleum based oils Synthetic oils	Anti freeze Windshield fluids
TYPICAL APPLICATIONS	All Shops with Transfer fluid needs	Automotive Dealerships Transmission Centers Tire Centers Quick Lubes Industrial Plants Mobile Lube Mining
REFERENCE DATA		
CATALOG PAGES	8-9	9-10
SERVICE BULLETIN	SB1102	SB1105

# SELECTION GUIDE



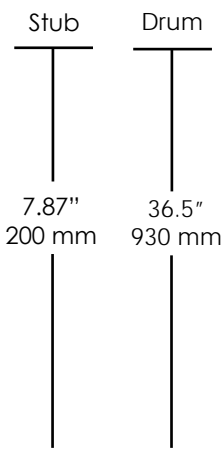
**LYNX 3:1**



**LYNX 5:1**

SELECTION GUIDE	1110-007	1110-011
LINE LENGTH	500 ft	700 ft
FREE FLOW, GPM @150 PSI AIR	6.6	5.3
FLUID TYPES	Petroleum based oils Synthetic oils	Petroleum based oils Synthetic oils
TYPICAL APPLICATIONS	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	11-12	31-14
SERVICE BULLETIN	SB1101	SB1106

# PISTON PUMPS | LYNX 1:1/ 2:1 PUMP



The Lynx 1:1 and 2:1 double action pumps are engineered for outstanding performance and reliability to transfer fluid from pails, drums, tanks, and totes. The Lynx pump provides fast delivery of cutting, synthetic, hydraulic, and mineral based lubricants.

The Lynx 2:1 multi-fluid pump is designed to provide the capabilities and versatility needed to transfer fluids to the point of application. Example of fluids: Detergents, cleaning fluids, synthetic hydraulic oil, antifreeze, windshield fluids, solvents, sealants or other corrosive fluids, etc, compatible with AISI 316, PTFE and Viton. NOTE: Warning! Do not use any Lynx series products with flammable fluids.

## FEATURES:

- Double acting positive displacement pump – delivers fast uniform, constant flow.
- Patented air valve – designed to operate with low air consumption and moist air.
- Air valve design has fewer components - for reliable operation; easy and economical maintenance.
- Factory lubricated air motor - no need for air lubricator.
- Built in sintered brass air filter – assures clean & quiet operation
- Anodized aluminum air piston – corrosion resistant, less sensitive to moisture in air system.
- Height adjustable 2" bung adapter – to fit all types of drums, drum covers, tanks, etc
- Pump inlet easily accepts a variety of extensions - to fit all types and sizes of tanks and containers.

## Technical data

Pump ratio: ..... 1:1 or 2:1  
 Operating air pressure range: ..... 45 -150 PSI (3 -10 bar)  
 Pump delivery with SAE 10-30 oil,  
 68° F, 150 PSI air pressure and free flow:  
 ..... 1:1 -10.6 GPM (40L/min)  
 ..... 2:1 - 8.2 GPM (30L/min)  
 Air inlet: ..... 1/4" NPT (F)  
 Pump outlet: ..... 1:1 - 3/4" NPT (F)  
 ..... 2:1 - 3/4" NPT (M)  
 Pump inlet: (stub only) ..... 1" NPT (F)  
 Pump tube diameter: ..... 2" / 51 mm  
 Wetted materials:  
 1:1 pumps..... steel, brass, aluminum, NBR and polyurethane  
 2:1 drum ..... 316SS, Viton, & PTFE

## MODELS AVAILABLE

- |          |  |
|----------|--|
| 1110-010 | 1:1 Bare stub pump with bung adapter                 |
| 1110-009 | 1:1 Bare drum pump with bung adapter                 |
| 1160-009 | 2:1 Bare stainless steel drum pump with bung adapter |



# PISTON PUMPS | LYNX 1:1 / 2:1 OUTFITS

## Stationary Outfit:



	1111 - 010	1111 - 011	1111 - 009	1161 - 003
Description	Pump & Hose Outfit (Stub)	Pump & Hose Outfit (Drum)	Pump & Spigot Outfit (Drum)	2:1 SS Pump & Hose Outfit (Drum)
Outfit Includes:				
Bare Pump	1110-010	1110-009	1110-009	1160-009
Bung Adapter	4411-021	4411-021	4411-021	4411-021
Air Hose (5' x 3/8")	8132-005	8132-005	-	8132-005
Fluid Hose (5' x 3/4")	8261-005	8261-005	-	8261-005
Spigot	-	-	4200-013	-

## Portable Outfit:



	1111 - 012	1111 - 013	1111 - 014
Description	55 Gal. Drum Outfit (Dolly)	16 Gal. Drum Outfit (Dolly)	55 Gal. Drum Outfit (Cart)
Outfit Includes:			
Bare Pump	1110-009	1110-010	1110-009
Bung Adapter	4411-021	4411-021	4411-021
Filter Regulator (1/4")	3260-033	3260-033	3260-033
Fluid Hose (10' x 3/4")	8263-010	8263-010	8263-010
High Flow Handle	3320-019	3320-019	3320-019
Suction Tube or Kit	-	832967	-
Dolly / Cart	4310-004	4310-003	4320-008

# PISTON PUMPS | LYNX 3:1 PUMP



The Lynx 3:1 ratio double action pump is engineered for outstanding performance and reliability to dispense lubricating oils and similar products up to SAE 90 in piped systems

## FEATURES:

- Double acting positive displacement pump – delivers fast uniform, constant flow.
- Patented air valve – designed to operate with low air consumption and moist air.
- Air valve design has fewer components - for reliable operation; easy and economical maintenance.
- Factory lubricated air motor - no need for air lubricator.
- Built in sintered brass air filter – assures clean & quiet operation
- Anodized aluminum air piston – corrosion resistant, less sensitive to moisture in air system.
- Height adjustable 2" bung adapter – to fit all types of drums, drum covers, tanks, etc
- Pump inlet easily accepts a variety of extensions - to fit all types and sizes of tanks and containers.

## Technical data

Pump ratio: ..... 3:1  
 Operating air pressure range: ..... 45 -150 PSI (3 -10 bar)  
 Pump delivery with SAE 10-30 oil, 68° F, 150 PSI air pressure and free flow: ..... 6.6 GPM (25L/min)  
 Air inlet: ..... 1/4" NPT (F)  
 Pump outlet: ..... 3/4" NPT (F)  
 Pump inlet: ..... 3/4" NPT (F)  
 Pump tube diameter: ..... 1 1/4" / 32 mm  
 Wetted materials:  
 ..... steel, brass, aluminum, NBR and polyurethane

**Note:** Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage fluid distribution system components. Pressure relief valve, 3120-019 is recommended.

## MODELS AVAILABLE

1110-007      Bare stub pump with bung adapter

# PISTON PUMPS | LYNX 3:1 OUTFITS

## Stationary Outfits:



\*Drum Not Included

	1111- 015	1111-016
Description	Pump & Hose Outfit	Pump & Wall Mount Outfit
Outfit Includes		
Bare Pump	1110-007	1110-007
Bung Adapter	4411-022	4411-022
Air Hose (5' x 3/8")	8132-005	8132-005
Fluid Hose (5' x 3/4")	8261-005	8261-005
Wall Mount Bracket	-	4411-008
Suction Side Bung Adapter	-	4411-011

## Portable Outfits:



\*Drum Not Included

\*Drum Not Included

\*Drum Not Included

\*Drum Not Included

\*Hose Reel Optional

	1111- 005	1111- 007	1111- 006	1111- 008	1111- 021
Description	16 Gal. Drum Outfit	55 Gal. Drum Outfit	16 Gal. Drum Outfit	55 Gal. Drum Outfit	24 Gal Mini Bulk Outfit
Includes	(Dolly)	(Dolly)	(Cart)	(Cart)	
Bare Pump	1110-007	1110-007	1110-007	1110-007	1110-007
Bung Adapter	4411-022	4411-022	4411-022	4411-022	4411-022
Filter Regulator (1/4")	3260-033	3260-033	3260-033	3260-033	3260-033
Fluid Hose (10' x 1/2")	8249-010	8249-010	8249-010	8249-010	8249-010
Analog Control Handle	3330-146	3330-146	3330-146	3330-146	3330-146
Suction Tube or Kit	832884	832916	832844	832916	832959
Dolly / Cart	4310-003	4310-004	4320-009	4320-008	-



The Lynx 5:1 ratio double action pump is engineered for outstanding performance and reliability. The Lynx 5:1 pump is designed to dispense lubricating oils and similar products up to SAE 140 in piped systems

#### FEATURES:

- Double acting positive displacement pump – delivers fast uniform, constant flow.
- Patented air valve – designed to operate with low air consumption and moist air.
- Air valve design has fewer components - for reliable operation; easy and economical maintenance.
- Factory lubricated air motor - no need for air lubricator.
- Built in sintered brass air filter – assures clean & quiet operation
- Anodized aluminum air piston – corrosion resistant, less sensitive to moisture in air system.
- Height adjustable 2" bung adapter – to fit all types of drums, drum covers, tanks, etc
- Pump inlet easily accepts a variety of extensions - to fit all types and sizes of tanks and containers.

#### Technical data

Pump ratio: .....	5:1
Maximum air pressure:.....	150 PSI (10 bar)
Minimum air pressure: .....	45 PSI (3 bar)
Pump delivery with SAE 10-30 oil, 68°F, 150 PSI air pressure and free flow: .....	5.3 GPM (20L/min)
Air inlet:.....	1/4"NPT (F)
Pump outlet: .....	3/4"NPT (F)
Pump inlet:.....	3/4"NPT (F)
Pump tube diameter:.....	1 1/4" / 32mm
Wetted materials: .....	steel, brass, aluminum, NBR and polyurethane

**Note:** Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage fluid distribution system components. Pressure relief valve, 3120-019 is recommended.

#### MODELS AVAILABLE

1110-011      Bare stub pump with bung adapter

# PISTON PUMPS | LYNX 5:1 OUTFITS

## Stationary Outfits:



\*Drum Not Included

	1111-017	1111-018
Description	Pump & Hose Outfit (Stub)	Pump & Wall Mount Outfit
Outfit Includes:		
Bare Pump	1110-011	1110-011
Bung Adapter	4411-022	4411-022
Air Hose (5' x 3/8")	8132-005	8132-005
Fluid Hose (5' x 3/4")	8261-005	8261-005
Wall Mount Kit	-	4411-008
Suction Side Bung Adapter	-	4411-011

## Portable Outfits:



\*Drum Not Included

\*Drum Not Included

\*Drum Not Included

\*Drum Not Included

\*Hose Reel Optional

	1111-019	1111-020	1111-022	1111-023	1111-024
Description	16 Gal. Drum Outfit	55 Gal. Drum Outfit	16 Gal. Drum Outfit	55 Gal. Drum Outfit	24 Gal Mini Bulk Outfit
Includes	(Dolly)	(Dolly)	(Cart)	(Cart)	
Bare Pump	1110-011	1110-011	1110-011	1110-011	1110-011
Bung Adapter	4411-022	4411-022	4411-022	4411-022	4411-022
Filter Regulator (1/4")	3260-033	3260-033	3260-033	3260-033	3260-033
Fluid Hose (10' x 1/2")	8249-010	8249-010	8249-010	8249-010	8263-010
Analog Control Handle	3330-146	3330-146	3330-146	3330-146	3330-146
Suction Tube or Kit	832884	832916	832884	832916	832959
Dolly / Cart	4310-003	4310-004	4320-009	4320-008	-

# PISTON PUMPS | PRIDE SERIES



PANTHER® HP 3:1



PANTHER® HP 5:1

SELECTION GUIDE	1130-015	1130-016
LINE LENGTH	500 ft	700 ft
DISPENSE POINTS (SIMULTANEOUS)	3	2
FREE FLOW, GPM @ 100 PSI AIR	7.5	5.5
FLUID TYPES	Petroleum based oils Synthetic oils	Petroleum based oils Synthetic oils
TYPICAL APPLICATIONS	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	16-17	18-19
SERVICE BULLETIN	SB 1064	SB 1064

# SELECTION GUIDE



**TIGER® HP 6:1**



**LION™ HP 5:1**



**LION™ HP 10:1**

SELECTION GUIDE	1130-019	1130-027	1130-024
LINE LENGTH	700 ft	700 ft	1,000 ft
DISPENSE POINTS (SIMULTANEOUS)	6	10	6
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	20-21	22-23	24-25
SERVICE BULLETIN	SB1065	SB 1073	SB 1073

# PISTON PUMPS | PANTHER® HP 3:1 PUMPS



## FEATURES:

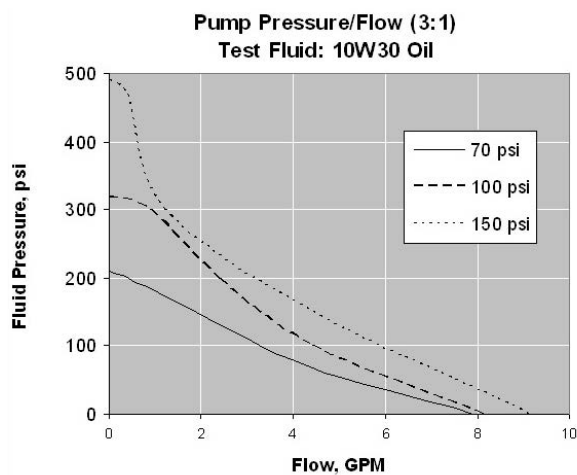
- Pressure relief on carbon steel models - Built in safety feature reduces premature wear of hoses and seals
- Mechanical air valve - More reliable, no stalling and no icing
- Designed for lower air consumption - Extends compressor life
- Built in muffler - Results in quiet operation and eliminates icing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

## SPECIFICATIONS

Eff. diameter	2.50"
Operating air pressure range	10 -150 PSI
Air consumption (@100 PSI & 4 GPM)	19.70 SCFM
Max fluid stall pressure @150 PSI air	490 PSI
Air inlet	1/4" NPT (F)
Fluid inlet	1" NPT(F) 1-1/2" NPT (M)
Fluid outlet	3/4" NPT (F)
Cycles per gallon	34
Wetted materials	Carbon Steel, Buna, SS, Nickel Plated Steel, Nylon, Ultrathane Zinc Plated Steel
Service bulletin	SB1064

### MODELS AVAILABLE

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





# PISTON PUMPS | PANTHER® HP 3:1 OUTFITS



\*Drum not included



\*Drum not included

OUTFIT	1131-007	1131-009	1131-013
DESCRIPTION	Wall Mount Outfit	Pump and Hose Outfit	16 Gallon Portable Outfit
BARE PUMP	1130-015	1130-015	1130-015
BUNG ADAPTER	4411-009	4411-009	4411-009
AIR HOSE	8132-005	8132-005	-
FLUID HOSE	8249-005	8249-005	8249-010
SUCTION TUBE OR KIT	4410-034	-	4412-006
WALL MOUNT BRACKET	4411-008	-	-
CONTROL HANDLE	-	-	3330-143
DRUM COVER	-	-	4420-005
DOLLY	-	-	4310-001

## ACCESSORIES (Pg. 26)

### 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"

### LOW LEVEL CUT-OFF:

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

### PUMP OVER-RUN CONTROL:

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

### FILTER REGULATOR LUBRICATOR:

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

### EXTERNAL PRESSURE RELIEF:

- 3120-019

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented

### DOLLY BASES:

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

### DRUM COVERS:

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

### DRUM CARTS:

- 4320-004 16 gallon
- 4320-006 30 gallon
- 4320-008 16 -55 gallon

### BUNG ADAPTERS:

- 4411-009 Aluminum
- 4411-018 Double tapped bushing

### WALL MOUNT BRACKET:

- 4411-008

# PISTON PUMPS | PANTHER<sup>®</sup> HP 5:1 PUMPS



## FEATURES:

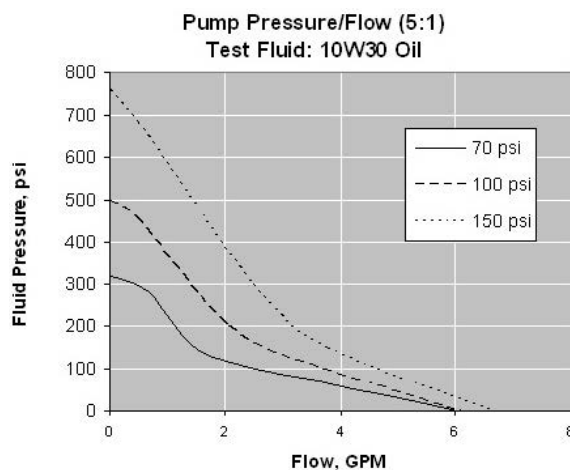
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- Mechanical air valve - More reliable, no stalling and no icing
- Designed for lower air consumption - Extends compressor life
- Built in muffler - Results in quiet operation and eliminates icing
- Stainless steel pump rod - Reduces corrosion and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

## SPECIFICATIONS

Eff. diameter	2.50"
Operating air pressure range	10-150 PSI
Air consumption (@100 PSI & 3 GPM)	24.8 SCFM
Max fluid stall pressure @150 PSI air	760 PSI
Air inlet	1/4" NPT (F)
Fluid inlet	1"NPT (F) 1-1/2"NPT (M)
Fluid outlet	1/2" NPT (F)
Cycles per gallon	.57
Wetted materials	Carbon Steel, Buna, SS, Nickel Plated Steel, Nylon, Ultrathane Zinc Plated Steel
Service bulletin	SB1064

### MODELS AVAILABLE

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



# PISTON PUMPS | PANTHER® HP 5:1 OUTFITS



\*Drum not included



\*Drum not included

OUTFIT	1131-008	1131-010	1131-014
DESCRIPTION	Wall Mount Outfit	Pump and Hose Outfit	16 Gallon Portable Outfit
BARE PUMP	1130-016	1130-016	1130-016
BUNG ADAPTER	4411-009	4411-009	4411-009
AIR HOSE	8132-005	8132-005	
FLUID HOSE	8249-005	8249-005	8249-010
SUCTION TUBE OR KIT	4410-034	-	4412-006
WALL MOUNT BRACKET	4411-008	-	-
CONTROL HANDLE	-	-	3330-143
DRUM COVER	-	-	4420-005
DOLLY	-	-	4310-001

## ACCESSORIES (Pg. 26)

### 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"

### LOW LEVEL CUT-OFF:

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

### PUMP OVER-RUN CONTROL:

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

### FILTER REGULATOR LUBRICATOR:

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

### EXTERNAL PRESSURE RELIEF:

- 3120-020

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented

### DOLLY BASES:

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

### DRUM COVERS:

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

### DRUM CARTS:

- 4320-004 16 gallon
- 4320-006 30 gallon
- 4320-008 16 -55 gallon

### BUNG ADAPTERS:

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

### WALL MOUNT BRACKET:

- 4411-008

# PISTON PUMPS | TIGER<sup>®</sup> HP 6:1 PUMPS



## FEATURES:

- Pressure relief on carbon steel models - Built in safety feature reduces premature wear of hoses and seals
- Mechanical air valve - More reliable, no stalling and no icing
- Designed for lower air consumption - Extends compressor life
- Built in muffler - 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

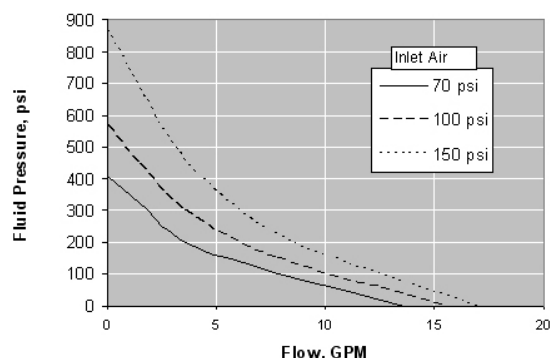
## SPECIFICATIONS

Eff. diameter	3.20"
Operating air pressure range	40-150 PSI
Air consumption (@100 PSI & 8 GPM)	59 SCFM
Max fluid stall pressure @150 PSI air	870 PSI
Air inlet	3/8" NPT(F)
Fluid inlet	1" NPT(F) 1-1/2" NPT(M)
Fluid outlet	3/4" NPT(F)
Cycles per gallon	31
Wetted materials	Carbon Steel, Buna, SS, Nickel Plated Steel, Ultrathane Viton, Nylon
Service bulletin	SB1065

## 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)

**Pump Pressure/Flow (6:1) Test**  
Fluid: 10W30 Oil





\*Drum not included

OUTFIT	1131-054	1131-005
DESCRIPTION	Wall Mount Outfit	Pump and Hose Outfit
BARE PUMP	1130-019	1130-019
BUNG ADAPTER	4411-009	4411-009
AIR HOSE	8134-005	8134-005
FLUID HOSE	8264-005	8264-005
SUCTION TUBE OR KIT	4410-034	-
WALL MOUNT BRACKET	4411-008	-

## ACCESSORIES (Pg. 26)

### SUCTION TUBES:

- 4412-007 1" NPT (M) X 26-½" S/S for 55 gallon drum
- 4412-008 1" NPT(M) x 26-½" for 55 gallon drum
- 4412-012 1" NPT(M) Telescoping - 22 ½"-42 ½"

### LOW LEVEL CUT-OFF:

- 4411-010 ¾" and/or 1" thread

### PUMP OVER-RUN CONTROL:

- 3241-001 ½" NPT(F)

### FILTER REGULATOR LUBRICATOR:

- 3260-050 ¾" NPT(F)

### EXTERNAL PRESSURE RELIEF:

- 3120-019

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented

### DOLLY BASES:

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

### DRUM COVERS:

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

### DRUM CARTS:

- 4320-004 16 gallon
- 4320-006 30 gallon
- 4320-008 16 -55 gallon

### BUNG ADAPTERS:

- 4411-009 Aluminum
- 4411-017 Nickel Plated

### WALL MOUNT BRACKET:

- 4411-008

# PISTON PUMPS | LION™ HP 5:1 PUMP



## FEATURES:

- Mechanical air valve - More reliable, no stalling and no icing
- Designed for lower air consumption - Extends compressor life
- Built in muffler - 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

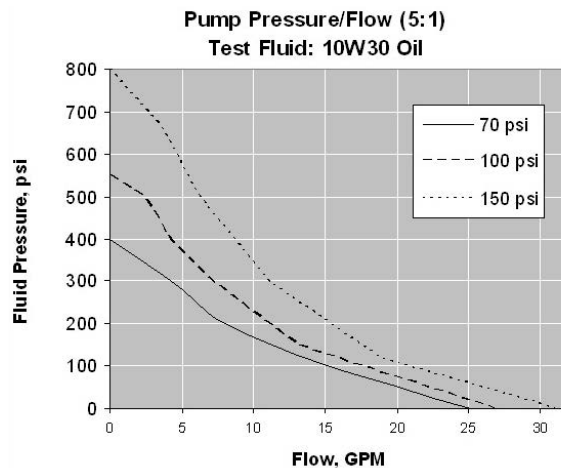
## SPECIFICATIONS

Eff. diameter	4.25"
Operating air pressure range	30-150 PSI
Air consumption (@100 PSI air & 8 GPM)	47 SCFM
Max fluid stall pressure @150 PSI air	800 PSI
Air inlet	1/2" NPT(F)
Fluid inlet	1-1/2" NPT(F)
Fluid outlet	3/4" NPT(F)
Cycles per gallon	14
Wetted materials	Carbon Steel, Buna, Brass, Nickel Plated Steel, Aluminum Polyurethane
Service bulletin	SB1073

10 1/2"

### MODELS AVAILABLE

1130-027 Carbon Steel Stub





OUTFIT	1131-025	1131-056
DESCRIPTION	Wall Mount Outfit	Pump and Hose Outfit
BARE PUMP	1130-027	1130-027
AIR HOSE	8144-005	8144-005
FLUID HOSE	8264-005	8264-005
SUCTION TUBE OR KIT	4412-016	-
WALL MOUNT BRACKET	4411-001	-

## ACCESSORIES (Pg. 26)

**LOW LEVEL CUT-OFF:**

4411-005 1-1/2" thread

**PUMP OVER-RUN CONTROL:**

3241-001 1/2" NPT(F)

**FILTER REGULATOR LUBRICATOR:**

3260-051 1/2" NPT(F)

**EXTERNAL PRESSURE RELIEF:**

3120-019

**SUCTION CHECK VALVE:**

4411-015 1" NPT(F)

**DOLLY BASE:**

4310-004 55 gallon heavy duty

**DRUM COVER:**

4420-007

**DRUM CARTS:**

4320-006 30 gallon  
4320-008 16 -55 gallon

**WALL MOUNT BRACKET:**

4411-001

# 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 air valve - More reliable, no stalling, and no icing
- Designed for lower air consumption - Extends compressor life
- Built in muffler - 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

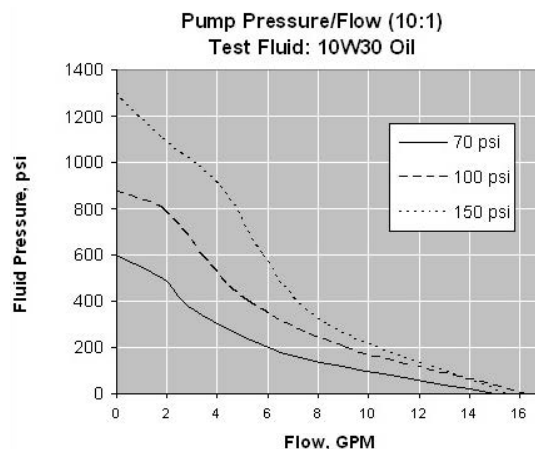
## SPECIFICATIONS

Eff. diameter	4.25"
Operating air pressure range	30-150 PSI
Air consumption (@100 PSI air & 4 GPM)	46 SCFM
Max fluid stall pressure @150 PSI air	1,300 PSI
Air inlet	1/2" NPT(F)
Fluid inlet	1" NPT (F)
Fluid outlet	3/4" NPT(F)
Cycles per gallon	28
Wetted materials	Carbon Steel, Buna, Brass, Nickel Plated Steel, Aluminum Nylon, Ultrathane, Viton, SS
Service bulletin	.SB1073

6 1/4"

## MODELS AVAILABLE

1130-024 Carbon Steel Stub







OUTFIT	1131-026	1131-004
DESCRIPTION	Wall Mount Outfit	Pump and Hose Outfit
BARE PUMP	1130-024	1130-024
BUNG ADAPTER	-	-
AIR HOSE	8144-005	8144-005
FLUID HOSE	8264-005	8264-005
SUCTION TUBE OR KIT	4412-015	-
WALL MOUNT BRACKET	4411-001	-

## ACCESSORIES (Pg. 26)

### 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"

### LOW LEVEL CUT-OFF:

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

### PUMP OVER-RUN CONTROL:

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

### FILTER REGULATOR LUBRICATOR:

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

### EXTERNAL PRESSURE RELIEF:

- 3120-025

### SUCTION CHECK VALVES AND KIT:

- 4411-015 1" NPT(F)
- 4411-019 1" NPT(F), Vented

### DOLLY BASE:

- 4310-004 55 gallon heavy duty

### DRUM COVER:

- 4420-007 55 gallon

### DRUM CARTS:

- 4320-006 30 gallon
- 4320-008 16 -55 gallon

### WALL MOUNT BRACKET:

- 4411-001

# PISTON PUMPS | PUMP ACCESSORIES

## DOLLY BASES:

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



4310-001



4310-003



4310-004

## DRUM COVERS:

4420-005	16 gallon
4420-007	55 gallon



4420-005



4420-007

## DRUM CARTS:

4320-008	55 gallon
4320-009	16 gallon



4320-009



4320-008

## BUNG ADAPTERS:

4411-007	Steel - Lion 5:1
4411-009	Aluminum - Panther, Tiger
4411-009Q	10 pack Aluminum - Panther, Tiger
4411-012	Poly - Drum
4411-017	Nickel Plated - Bobcat, Tiger
4411-018	Double Tapped Bushing
4411-021	Lynx 1:1, 2:1
4411-023	Lynx, 3:1, 5:1



4411-007

4411-021  
4411-0234411-017  
4411-009

4411-018

## WALL MOUNT BRACKET:

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



4411-008



4411-001

## 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"



4412-006

## LOW LEVEL CUT-OFF:

Prevents air intake when fluid runs out

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



4411-010

## PUMP OVER-RUN CONTROL:

3241-001	1/2" NPT(F)
3241-002	1/4" NPT(F)



3241-001



3241-002

## SUCTION CHECK VALVES AND KIT:

4411-015	1" NPT(F)
4411-019	1" NPT(F), Vented
4411-020	3/4" NPT(F)



4411-019

## LYNX KITS

4410-058	Wall Mount Kit	4410-057	1:1 Hose & Suction Kit (16 gal)	4410-054	Hose Kit
8132-005	3/8" x 5' Air Hose	8263-010	3/4" x 10' Fluid Hose	8132-005	3/8" x 5' Air Hose
8261-005	3/4" x 5' Fluid Hose	832967	1" Suction Tube	8261-005	3/4" x 5' Fluid Hose
832968	3/4" Suction tube			3270-003	Coupler
8171-006	3/4" x 6" Suction hose			3270-039	Nipple
4411-011	Bung Adapter	<b>4410-059</b>	<b>3:1 / 5:1 Hose &amp; Suction Kit (16 gal)</b>		
4411-008	Wall Mount Bracket	8263-010	3/4" x 10' Fluid Hose		
		832884	3/4" Suction Tube		
		<b>4410-060</b>	<b>3:1 / 5:1 Hose &amp; Suction Kit (55 gal)</b>		
		8263-010	3/4" x 10' Fluid Hose		
		832916	3/4" Suction Tube		

## PANTHER® HP KITS

4410-022	Wall Mount Kit	4410-027	Hose & Suction Kit	4410-055	Hose Kit
8132-005	3/8" x 5' Air Hose	8132-005	3/8" x 5' Air Hose	8132-005	3/8" x 5' Air Hose
8249-005	1/2" x 5' Fluid Hose	8249-005	1/2" x 5' Fluid Hose	8249-005	1/2" x 5' Fluid Hose
3270-003	Coupler	3270-003	Coupler	3270-003	Coupler
3270-039	Nipple	3270-039	Nipple	3270-039	Nipple
4410-034	Suction Kit	4412-008	1" Suction Tube		
4411-009	Bung Adapter	4411-009	Bung Adapter		
4411-008	Wall Mount Bracket				

## TIGER® HP KITS

4410-045	Wall Mount Kit	4410-017	Hose & Suction Kit	4410-056	Hose Kit
8134-005	3/8" x 5' Air Hose	8134-005	3/8" x 5' Air Hose	8134-005	3/8" x 5' Air Hose
8264-005	3/4" x 5' Fluid Hose	8264-005	3/4" x 5' Fluid Hose	8264-005	3/4" x 5' Fluid Hose
3270-002	Coupler	3270-001	3/8" Air Coupler	3270-001	3/8" Air Coupler
3270-001	Nipple	3270-002	3/8" NPT(M) Nipple	3270-002	3/8" NPT(M) Nipple
4410-034	Suction Kit	4412-008	1" Suction Tube		
4411-009	Bung Adapter	4411-009	Bung Adapter		
4411-008	Wall Mount Bracket				

## LION™ HP KITS

4410-037	5:1 Wall Mount Kit	4410-004	10:1 Wall Mount Kit	4410-014	Hose Kit (5:1 & 10:1)
8144-005	1/2" x 5' Air Hose	8144-005	1/2" x 5' Air Hose	8144-005	1/2" x 5' Air Hose
8264-005	3/4" x 5' Fluid Hose	8264-005	Fluid Hose 3/4" x 5'	8264-005	3/4" x 5' Fluid Hose
3270-002	3/8" Air Coupler	3270-002	3/8" Air Coupler	3270-002	3/8" Air Coupler
3270-001	Air Nipple	3270-001	Air Nipple	3270-001	Air Nipple
4412-016	1/2" x 5' Suction Tube	8181-006	1" x 6' Suction Hose		
831157	1-1/2" x 5' Suction Hose	4412-015	1" x 5' Suction Tube		
4411-007	Bung Adapter	4411-012	Bung Adapter		
4411-001	Wall Mount Bracket	4411-001	Wall Mount Bracket		

# PISTON PUMPS | PORTABLE DISPENSERS



\*hose reel optional



\*drum not included



\*drum not included

OUTFIT	1131- 031	1131- 029	1131- 030
DESCRIPTION	Mini Bulk 24 Gallon	Portable Outfit	Deluxe Portable Outfit with option for hose reel mounting
BARE PUMP	1130-015	1130-015	1130-015
ACCESSORIES			
BUNG ADAPTER	4411-009	4411-009	4411-009
FLUID HOSE	8249-010	8249-010	8249-010
SUCTION TUBE OR KIT	831519	4412-008	4412-008
MECHANICAL HANDLE	3330-143	3330-143	3330-143
FR	3260-033	3260-033	3260-033

Note: 5:1 Ratio pump should be substituted in colder climate and where pumping SAE 90 or higher viscosity fluid

## 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 Analog Handle
- 1200-002 With Electronic Handle
- 1200-003 With Non-metered Handle

# PISTON PUMPS | TANK PACKAGES

## FEATURES

- UL 142 Tanks (Single and Double Wall)\*
- Includes 50" x 1/2" Signature Series Hose Reel
- Includes Mechanical Meter with flex extension
- 3:1 Pump (Panther or Lynx)
- Fully assembled with everything you need for immediate use
- Filter Regulator
- 2" lockable Fill Cap and Gauge
- Tailgate delivery and advance notification available

\* Check local codes for venting and installation requirements




## Tank Package selection made easy


Step 1: Choose your tank style (Workbench, Vertical Obround or Horizontal Obround)


Step 2: Choose Single or Double wall construction

Step 3: Choose your pump: Heavy-duty Panther pump or the standard-duty Lynx pump for low volume installations

Step 4: Place your order using the model number listed next to your selection

Workbench Tank Packages	Size	Single/ Double wall	Pump	Tank Package Model Number	
<p>Workbench style tanks are the best choice when work space is at a premium. The flat top and 30-33" height make workbench style tanks the perfect choice for crowded shops needing additional workspace</p> 	<b>165 Gallon</b> 33H x33Wx36L	Single Wall	Lynx 3:1	1134-003	
			Panther 3:1	1134-001	
	Tank Only		832332		
			Double Wall	Lynx 3:1	1134-004
				Panther 3:1	1134-002
				Tank Only	832337
	<b>250 Gallon</b> 30H x32W x60L	Single Wall	Lynx 3:1	1134-007	
			Panther 3:1	1134-005	
			Double Wall	Tank Only	832333
				Lynx 3:1	1134-008
			Panther 3:1	1134-006	
			Tank Only	832338	
	<b>280 Gallon</b> 33H x33W x60L	Single Wall	Lynx 3:1	1134-015	
			Panther 3:1	1134-013	
		Double Wall	Tank Only	832334	
			Lynx 3:1	1134-016	
			Panther 3:1	1134-014	
			Tank Only	832339	

Vertical Obround Tank Packages	Size	Single/ Double wall	Pump	Tank Package Model Number
<p>Choose vertical Obround tanks when floor space is limited, Vertical Obround tanks have the smallest footprint per gallon of oil</p> 	<b>275 Gallon</b> 60H x44W x27D	Single Wall	Lynx 3:1	1134-019
			Panther 3:1	1134-017
			Tank Only	832841
	<b>330 Gallon</b> 72H x44W x27D	Double Wall	Lynx 3:1	1134-020
			Panther 3:1	1134-018
			Tank Only	832776
<b>330 Gallon</b> 72H x44W x27D	Single Wall	Lynx 3:1	1134-027	
		Panther 3:1	1134-025	
		Tank Only	832344	
<b>330 Gallon</b> 72H x44W x27D	Double Wall	Lynx 3:1	1134-028	
		Panther 3:1	1134-026	
		Tank Only	832836	

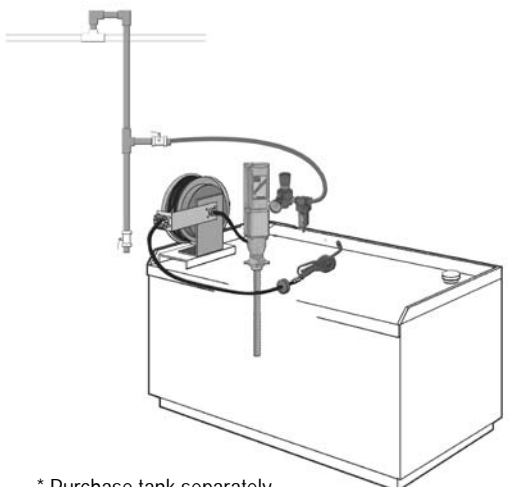
Horizontal Obround Tank Packages	Size	Single/ Double wall	Pump	Tank Package Model Number
<p>Horizontal Obround tanks combine the small foot print of a vertical tank with the easy access of a work bench tank. The fill cap and hose reel are located a convenient 44" from the floor</p> 	<b>275 Gallon</b> 44H x27W x60L	Single Wall	Lynx 3:1	1134-011
			Panther 3:1	1134-009
			Tank Only	832335
	<b>330 Gallon</b> 44H x27W x72L	Double Wall	Lynx 3:1	1134-012
			Panther 3:1	1134-010
			Tank Only	832336
<b>330 Gallon</b> 44H x27W x72L	Single Wall	Lynx 3:1	1134-023	
		Panther 3:1	1134-021	
		Tank Only	832846	
<b>330 Gallon</b> 44H x27W x72L	Double Wall	Lynx 3:1	1134-024	
		Panther 3:1	1134-022	
		Tank Only	832845	

# PISTON PUMPS | TANK PACKAGES

## FEATURES

- 3:1 or 5:1 Panther lube pump
- 30 or 50 foot hose reel
- Filter regulator
- Bung adapter included with pump
- Inlet hose for hose reel
- lockable fill cap and gauge order separately
- Down tube supplied by customer

## Equipment Packages for Tanks

	Pump	Hose Reel	Tank Package Model Number
	<b>Panther 3:1</b>	30' Hose Reel	1132-006
		50' Hose Reel	1132-009
	<b>Panther 5:1</b>	30' Hose Reel	1132-007
		50' Hose Reel	1132-010

\* Purchase tank separately.

## ACCESSORIES

### FILTER, REGULATORS & LUBRICATOR

- 3260-039 Filter
- 3260-029 Regulator
- 3260-044 Lubricator
- 3260-034 Filter/regulator combination
- 3260-049 Filter/regulator & lubricator (2-pc combo)
- 3260-054 Filter, regulator & lubricator (3-pc combo)

### AIR SUPPLY HOSE (2FT)

- 8144-002 1/2" x 2' w/ 1/2" x 3/8 NPT (M)

### FLUID OUTLET HOSE (5FT)

- 8249-005 1/2" x 5' NPT (M) 5000 PSI

### FLUID/PUMP CONTROL

- 3110-009 Pump Sentinel
- 3120-011 Air Solenoid Valve - 3/8" NPT(F)
- 3120-033 Air Solenoid Valve - 3/8" NPT(F)

### TANK GUARDIAN / TANK LEVEL MONITOR

- 4520-010 Tank probe for monitoring fluid level
- 4520-011 Tank Guardian software for 4 Tanks
- 4520-012 Tank Guardian software for 8 Tanks
- 4520-013 Tank Guardian software for 12 Tanks
- Bung Adapters for Pride Series Pumps
- 4411-009 Panther/Tiger
- 4411-018 Double tap bushings (allows easy install and removal of pump)

### MISC

- 832778 2" Vented fill cap
- 832706 4" Emergency Vent
- 4520-014 Black Knight Gauge (for tanks up to 90" tall)
- 4520-006 Tank Saddle (Converts standard fuel oil tank to accept a Balcrank hose reel.
- No welding required; it is securely fastened using vent tube and vent cap)
- 4520-007 Vent cap mounting kit (for attaching 4520-006 to vent outlet of obround tanks)





**JET POWER™ 50:1**

**PANTHER® HP 50:1**

**LION™ 50:1**

SELECTION GUIDE	1150-012	1150-010	1150-015
LINE LENGTH	100 ft	300 ft	500 ft
DISPENSE POINTS (SIMULTANEOUS)	2	3	8
FREE FLOW, lb./min @ 100 PSI AIR	1.5	3.5	16.0
TYPICAL APPLICATIONS	Quick Lubes Fleet / Commercial Dealerships Transmission Centers Tire Centers Industrial Plants Portable Dispenser Mobile Lube Portable Dispenser	Automotive Dealerships Fleet / Commercial Dealerships Transmission Centers Tire Centers Quick Lubes Industrial Plants Mobile Lube Mining	Automotive Dealerships Fleet / Commercial Dealerships Transmission Centers Tire Centers Quick Lubes Industrial Plants Mining
REFERENCE DATA			
CATALOG PAGES	34-35	36-37	38-39
SERVICE BULLETIN	SB 1075	SB 1063	SB 1074

## GREASE PUMPS | JETPOWER™ 50:1 PUMPS



1150-012

## MODELS AVAILABLE

1150-004 Bare Pump - 25-35 lb.

1150-012 Bare Pump - 120 lb.

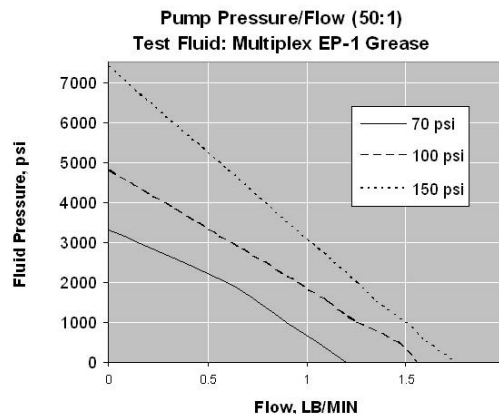
1150-013 Bare Pump - 400 lb.

## FEATURES:

- Simple design - Few moving parts, detachable external air valve
- Mechanical air valve - More reliable, no stalling and no icing
- 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 from entry system

## SPECIFICATIONS

Pressure ratio	50:1
Eff. diameter	2.62"
Stroke	2.12"
Operating air pressure range	30-150 PSI
Air consumption (100 PSI air & 0.75 lb. /min. )	6.6 SCFM
Max delivery (free flow @ 100 PSI)	1.5 lb./min
Air inlet	¼" NPT(F)
Fluid outlet	¼" NPT(F)
Service bulletin	SB1075
Wetted materials	Carbon Steel, Buna-N, Brass, Ultrathane





\*Drum not included

\*Drum not included

\*Drum not included

OUTFIT	1151-014	1151-015	1151-016	1151-017
DESCRIPTION	25-35 lb. Portable	120 lb. Stationary	120 lb. Portable	400 Lb. Stationary
BARE PUMP	1150-004	1150-012	1150-012	1150-013
AIR HOSE	-	8132-005	8132-005	8132-005
FLUID HOSE	8331-010	8331-010	8331-010	8331-010
GREASE HANDLE	3310-026	-	3310-026	-
DRUM COVER	4420-006	4420-002	4420-002	4420-004
FOLLOWER PLATE*	-	4440-010	4440-010	4440-011
DOLLY	-	-	4310-001	-

## ACCESSORIES

### DOLLY BASES:

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

### DRUM COVERS:

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

### DRUM CART:

- 4320-004 120 lb.
- 4320-008 120 - 400 lb.

### PUMP OVER-RUN CONTROL:

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

### FOLLOWER PLATES:\*

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

\*Balcrank uses weighted follower plates to eliminate air pockets in grease, and ensure proper function of pump.

### INLET SCREEN:\*

- 4430-001

\*A must when not using an air lift. Inlet Screen keeps dirt and debris from getting into system.

### AIR OPERATED PUMP LIFT

- 4450-001 Lift
- 4451-001 Valve

# GREASE PUMPS | PANTHER HP® 50:1 PUMPS



## FEATURES:

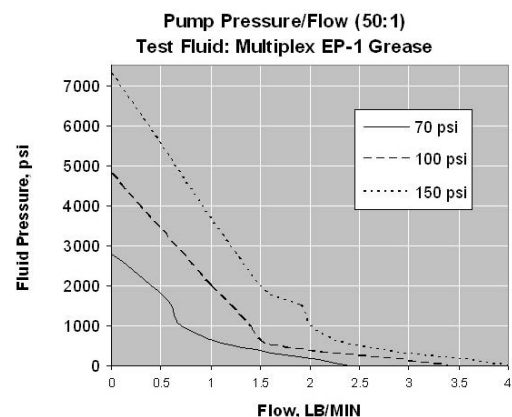
- Mechanical air valve - More reliable, no stalling, and no icing
- Designed for lower air consumption - Less wear and tear on the compressor
- Built in muffler - Promotes quiet operation, eliminates icing
- Precise machined finishes and hardened lower piston assembly - For reliable performance and long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

## SPECIFICATIONS

Pressure ratio	.50:1
Eff. diameter	2.44"
Stroke	3.25"
Operating air pressure range	40-150 PSI
Air consumption (@100 PSI & 1.5 lb./min.)	14.5 SCFM
Max delivery (free flow @ 100 PSI)	3.4 lb./min
Air inlet	1/4" NPT(F)
Fluid outlet	1/4" NPT(F)
Service bulletin	SB1063
Wetted materials	Stainless Steel, Carbon Steel, Brass, Aluminium, Delrin, Ultrathane, Buna-N

## 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



# GREASE PUMPS | PANTHER HP® 50:1 OUTFITS



\*Drum not included    \*Drum not included    \*Drum not included    \*Drum not included

OUTFIT	1151-003	1151-004	1151-005	1151-026	1151-006	1151-020
DESCRIPTION	25-35 lb. Portable	120 lb. Stationary	120 lb. Portable	120 lb. Portable	400 lb. Stationary	Tote
BARE PUMP	1150-009	1150-010	1150-010	1150-010	1150-011	1150-017
AIR HOSE	-	8132-005	-	-	8132-005	-
FLUID HOSE	8331-010	8331-010	8331-010	8331-010	8331-010	-
GREASE HANDLE	3310-026	-	3310-026	3310-028	-	-
DRUM COVER	4420-008	4420-009	4420-009	4420-009	4420-004	-
FOLLOWER PLATE	4440-007	4440-008	4440-008	4440-008	4440-009	-
DOLLY	-	-	4310-001	4310-001	-	-
FR	-	-	-	-	-	3260-034

## ACCESSORIES

### DOLLY BASES:

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

### DRUM COVERS:

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

### DRUM CART:

- 4320-008 120 - 400 lb.

### PUMP OVER-RUN CONTROL:

- 3241-002 ¼" NPT(F)

### FOLLOWER PLATES:\*

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

**\*Balcrank uses weighted follower plates to eliminate air pockets in grease, and ensure proper function of pump.**

### INLET SCREEN:\*

- 4430-004

**\*A must when not using an air lift. Inlet Screen keeps dirt and debris from getting into system.**

### AIR OPERATED PUMP LIFT:

- 4450-001 Lift
- 4451-001 Valve



1150-015

## FEATURES:

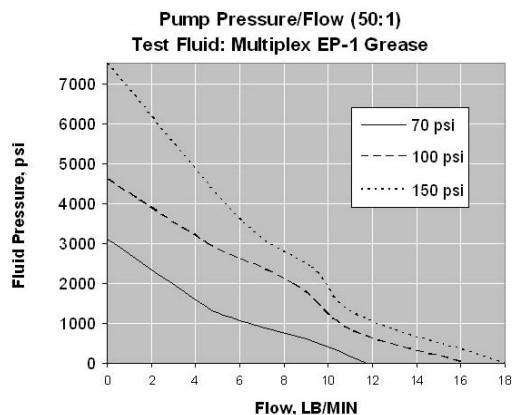
- Mechanical air valve - More reliable, no stalling, and no icing
- Designed for lower air consumption - Less wear and tear on the compressor
- Built in muffler - Promotes quite operation, eliminates icing
- Precise machined finishes and hardened lower piston assembly  
- For reliable performance and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

## SPECIFICATIONS

Pressure ratio . . . . . 50:1  
 Eff. diameter . . . . . 4.25"  
 Stroke . . . . . 3.25"  
 Operating air pressure range . . . . . 10-150 PSI  
 Air consumption (@ 100 PSI air & 8.0 lb./min) . . . . . 72 SCFM  
 Max delivery (free flow @ 100 PSI) . . . . . 16 lb./min  
 Air inlet . . . . . 1/2" NPT(F)  
 Fluid outlet . . . . . 3/8" NPT(F)  
 Service bulletin . . . . . SB1074  
 Wetted materials. . . . . Stainless Steel, Carbon Steel, Brass, Ultrathane

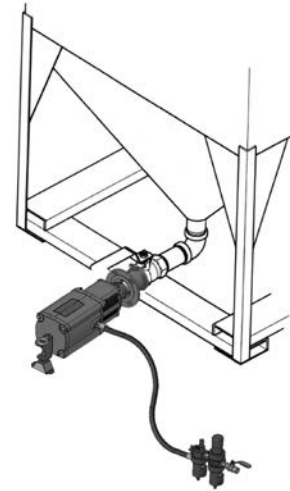
### MODELS AVAILABLE

- 1150-015 Bare Pump - 400 lb.
- 1150-018 Bare Pump - Tote





\*Drum not included



OUTFIT	1151-018	1151-022
DESCRIPTION	400 lb. Stationary	Tote
BARE PUMP	1150-015	1150-018
AIR HOSE	8144-005	-
FLUID HOSE	8333-010	-
DRUM COVER	4420-003	-
FOLLOWER PLATE	4440-012	-
FRL	-	3260-051

## ACCESSORIES

**DOLLY BASE:**  
4310-004 400 lb. heavy duty

**DRUM COVER:**  
4420-003 400 lb.

**DRUM CART:**  
4320-008 120 - 400 lb.

**PUMP OVER-RUN CONTROL:**  
3241-001 ½" NPT(F)

**FOLLOWER PLATE:\***  
4440-012 400 lb.

**\*Balcrank uses weighted follower plates to eliminate air pockets in grease, and ensure proper function of pump.**

**INLET SCREEN:\***  
4430-003

**\*A must when not using an air lift.**  
Inlet Screen keeps dirt and debris from getting into system.

**AIR OPERATED PUMP LIFT:**  
4450-001 Lift  
4451-001 Valve

## 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

1151-009 Panther HP Inductor    1151-011 Panther HP Inductor with Low Level Shutoff

1151-010 Lion HP Inductor        1151-012 Lion HP Inductor with Low Level Shutoff

4520-008 Low Level Shutoff For Grease Inductor

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



1151-011



1151-012



## JET POWER™ KITS

### 4410-031 Hose Kit

8132-005	3/8" x 5' Air Hose
8331-010	3/8" x 10' Fluid Hose

## PANTHER® HP KITS

### 4410-035 Hose Kit

8132-005	3/8" x 5' Air Hose
8331-010	3/8" x 10' Fluid Hose
3270-003	1/4" Air Coupler
3270-004	Nipple
3310-026	Grease Handle

### 4410-036 Hose Kit

8132-005	3/8" x 5' Air Hose
8331-010	3/8" x 10' Fluid Hose
3270-003	1/4" Air Coupler
3270-004	Nipple

## LION™ HP KITS

### 4410-030 Hose Kit 400 lb.

8144-005	1/2" x 5' Air Hose
8333-010	3/8" x 10' Fluid Hose
3270-002	3/8" Air Coupler
3270-001	Nipple

# DIAPHRAGM PUMPS | SELECTION GUIDE



SPECIFICATIONS	1120-011S	1120-019	1120-013S
SIZE	1/2"	3/4"	1"
PRESSURE RATIO	1:1	1:1	1:1
<b>PERFORMANCE</b>			
MAX OPERATING AIR PRESSURE	100 PSI	100 PSI	125 PSI
AIR CONSUMPTION	16 SCFM	16 SCFM	40 SCFM
FREE FLOW	14 GPM	14 GPM	45 GPM
MAX SUSPENDED SOLIDS	1/8"	1/16"	1/4"
SUCTION LIFT (FT. WET)	20	25	25
<b>KEY DIMENSIONS</b>			
AIR INLET NPT(F)	1/4"	3/8"	1/2"
FLUID INLET NPT(F)	1/2"	3/4"	1"
FLUID OUTLET NPT(F)	1/2"	3/4"	1"
<b>MATERIALS</b>			
CONSTRUCTION	Polypropylene	Aluminum	Aluminum
DIAPHRAGMS	Buna	Buna	Buna
BALL CHECKS	Acetal	Acetal	Acetal
SEATS	Polypropylene	Aluminum	Aluminum
<b>REFERENCE DATA</b>			
	SB 1095	SB 1051	SB 1096



SPECIFICATIONS	1120-014S	1120-015	1120-017
SIZE	1" Mixing	1" UL	1-1/2"
PRESSURE RATIO	1:1	1:1	1:1
<b>PERFORMANCE</b>			
MAX OPERATING AIR PRESSURE	125 PSI	50 PSI	125 PSI
AIR CONSUMPTION	50 SCFM	20 SCFM	50 SCFM
FREE FLOW	42 GPM	35 GPM	70 GPM
MAX SUSPENDED SOLIDS	1/4"	1/8"	1/8"
SUCTION LIFT (FT. WET)	25	25	25
<b>KEY DIMENSIONS</b>			
AIR INLET NPT(F)	1/2"	3/8"	1/2"
FLUID INLET NPT(F)	1"+1"	1"	1-1/2"
FLUID OUTLET NPT(F)	1"	1"	1-1/2"
<b>MATERIALS</b>			
CONSTRUCTION	Aluminum	Aluminum	Aluminum
DIAPHRAGMS	Buna	Buna	Buna
BALL CHECKS	Acetal	Acetal	Acetal
SEATS	Aluminum	Aluminum	Aluminum
<b>REFERENCE DATA</b>			
	SB 1097	SB 1059	SB 1069

# DIAPHRAGM PUMPS | OUTFITS



OUTFIT	1121-001	1121-002	1121-013
DESCRIPTION	Evacuation Outfit	Poly Drum Outfit	Aluminum Drum Outfit
BARE PUMP	1120-011S	1120-011S	1120-019
BUNG ADAPTER	-	Included	Included
MOUNTING BRACKET	829131	-	-
AIR HOSE	-	-	-
FLUID HOSE	832094	-	-
SUCTION TUBE	-	4412-018	4412-017
FR	3260-036	-	-



OUTFIT	1121-014	1121-006	1121-009	4140-002
DESCRIPTION	3/4" Drum Dispense Outfit	1/2" Wash Outfit	1" Wall Mount Outfit	Manifold Evac Outfit
BARE PUMP	1120-019	1120-011S	1120-013S	-
BUNG ADAPTER	Included	-	-	-
MOUNTING BRACKET	-	4411-016	4411-016	-
AIR HOSE	-	8149-005	8149-005	8134-005
FLUID HOSE	-	831116	831820	827600
SUCTION TUBE	4412-017	831179	831821	-
FR	-	3260-036	3260-036	-
SPIGOT	4200-013	-	-	-
SUCTION WAND	-	-	-	824249
MANIFOLD	-	-	-	824252

# DIAPHRAGM PUMPS | ACCESSORIES

## ACCESSORY KITS

### 4410-019 1" Wall Mount Kit      4140-015 1" Evacuation Kit

4411-016	Wall Mount Bracket	4411-016	Wall Mount Bracket
8134-005	3/8" x 5' Air Hose	8134-005	3/8" x 5' Air Hose
8264-005	3/4" x 5' Fluid Hose (2)	8261-005	3/4" x 5' Fluid Hose (2)
3230-004	1/2" Air Ball Valve	3230-004	1/2" Ball Valve
		8261-003	1" Suction Hose

### 4410-020 1/2" Wall Mount Kit      4140-026 3/4" Evacuation Kit

4411-016	Wall Mount Bracket	4411-016	Wall Mount Bracket
8134-005	3/8" x 5' Air Hose	8134-005	3/8" x 5' Air Hose
8249-005	1/2" x 5' Fluid Hose	8261-005	3/4" x 5' Fluid Hose (2)
3230-003	1/4" Air Ball Valve	3230-004	1/2" Ball Valve
		8264-003	3/4" Suction Hose

## ACCESSORIES

### SUCTION TUBES:

- 4412-013 55 gallon drum assembly with bung adapter for poly pumps
- 4412-014 55 gallon drum assembly with bung adapter for metallic 1/2" pumps
- 4412-017 55 gallon drum assembly with bung adapter for metallic 3/4" pumps
- 4410-018 55 gallon drum assembly w/ bung adapter for 1120-011S

### PRESSURE RELIEF KITS:

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

### WALL MOUNT BRACKET:

- 4411-016

## OVERFILL PUMP CONTROL



OUTFIT	4520-001	4520-002
DESCRIPTION	Overfill Pump Control	Overfill Pump Control
FEATURES	<ul style="list-style-type: none"> <li>Auto-shutoff</li> <li>Non-electric</li> <li>Sensing Tube</li> <li>Pump Controller</li> <li>-</li> <li>SB 4222</li> </ul>	<ul style="list-style-type: none"> <li>Auto-shutoff</li> <li>Non-electric</li> <li>Sensing Tube</li> <li>Pump Controller</li> <li>Audible Alarm</li> <li>SB 4222</li> </ul>

# MANUAL PUMPS

## STATIONARY PUMPS



OUTFIT	1300-010	1300-011	1300-009
DESCRIPTION	Non Metered Lube Package	Metered Lube Package	Grease Package
MAX PSI	600	600	10,000
NOZZLE	Auto-lock	Auto-lock	Grease Coupler
FLUID HOSE	6'	6'	6'
METER	-	3120-042	-
DRUM / KEG SIZE	16 Gallon	16 Gallon	25-35 Lb.
SERVICE BULLETIN	SB 1016	SB 1016	SB 1018

## PORTABLE PUMPS



OUTFIT	1300-017	1300-018
DESCRIPTION	Non Metered Lube Package	Metered Lube Package
MAX PSI	600	600
NOZZLE	Auto-lock	Auto-lock
FLUID HOSE	6'	6'
METER	-	3120-042
DRUM / KEG SIZE	16 Gallon	16 Gallon
DOLLY	4310-001	4310-001
SERVICE BULLETIN	SB 1016	SB 1016



MOBILE OIL OUTFITS	7120-018	7120-017
DESCRIPTION	Panther® HP 3:1 Outfit	Tiger® HP 6:1 Outfit
DRUM SIZE	55 gallon	55 gallon
BARE PUMP	1130-017	1130-025
ACCESSORIES		
AIR HOSE	8132-005	8144-005
FLUID HOSE	8262-010	8261-010
SUCTION TUBE	4412-008	4412-008
DRUM COVER	7120-012	7120-012
HOLD DOWN RODS	7120-004	7120-004

MOBILE GREASE OUTFITS	7120-015	7120-016	7120-014
DESCRIPTION	Panther® HP 50:1 Outfit	Panther® HP 50:1 Outfit	Lion™ HP 50:1 Outfit
KEG SIZE	120 lb.	400 lb.	400 lb.
BARE PUMP	1150-010	1150-011	1150-015
ACCESSORIES			
AIR HOSE	8132-005	8132-005	8141-005
FLUID HOSE	8331-010	8331-010	8333-010
DRUM COVER	7120-020	7120-013	7120-013
HOLD DOWN RODS	7120-005	7120-004	7120-004

## MOBILE LUBE EQUIPMENT

MOBILE DRUM COVERS	7120-012	7120-020	7120-013
PUMP SERIES	Panther, Tiger®	Panther®	Panther, Lion™
DRUM SIZE	55 gallon	120 lb.	400 lb.
LUBRICANT	Oil	Grease	Grease
PUMP OPENING	Offset	Center	Center

HOLD DOWN RODS	7120-004	7120-005
DRUM SIZE	400 lb.	120 lb.





For a complete listing of Balcrank repair kits see Service Bulletin(SB0001) at [www.balcrank.com](http://www.balcrank.com)

BOBCAT™ PUMPS	TIGER® & TIGER® HP PUMPS
<p>827711 - Air valve and seals kit for all Bobcat™ 130 &amp; 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 &amp; 1160-003 Bobcat™ series stainless pumps.            900020 - Fluid seals kit for 1110-005 &amp; 1110-006 Bobcat™ 130 pumps.</p>	<p>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.</p>
JET POWER™ PUMPS	LION™ HP PUMPS
<p>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.</p>	<p>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 50:1 pumps.            900030 - Fluid seals kit for Lion® HP 5:1 pumps.</p>
PANTHER® & PANTHER® HP PUMPS	DIAPHRAGM PUMPS
<p>831014 - Complete air motor for Panther® Series pumps 1130-010 &amp; 1130-011.            831614 - Complete air motor for Panther® HP Series pumps.            900014 - Air motor repair kit for 1130-010 &amp; 1130-011 Panther® pumps without Delrin inserts.            900019 - Air motor repair kit for 1130-015 &amp; 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, &amp; 1150-011.</p>	<p>828863 - Fluid kit for 1120-006 &amp; 1120-010 pumps.            828864 - Fluid kit for 1120-007, 1120-008, and 1120-009 pumps.            828866 - Air kit for 1120-006 &amp; 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, and 1120-014 pumps.            831591 - Fluid kit for 1120-011 and 1120-012 pumps.            831592 - Fluid kit for 1120-013, and 1120-014 pumps.            831621 - Fluid kit for 1120-015            831622 - Air kit for 1120-015            832907 - Air kit, for 1120-014s            832906 - Fluid kit, for 1120-014s            832905 - Air kit, for 1120-013s            832904 - Fluid kit, for 1120-013s            832903 - Air kit, for 1120-011s            832902 - Fluid kit, for 1120-011s</p>
GIANT JET™ PUMPS	
<p>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, &amp; 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.</p>	
LYNX PUMPS	
<p>832928 - Fluid seals kit for 1110-009 &amp; 1110-010            832865 - Air motor seals kit for 1110-007, 1110-009, &amp; 1110-010            832953 - Fluid seals kit for 1160-009            832954 - Air motor seals kit for 1160-009 &amp; 1110-010            832864 - Fluid seals kit for 1110-007            832960 - Fluid seals kit for 1110-011</p>	

# TYPICAL 2-BAY QUICK LUBE 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	3260-034	¼" FR	2
13	3230-002	½" Fluid Shut-off Valve	2
14	3270-003	¼" Air Coupler	2
15	3270-039	¼" Air Nipple	2
16	3230-003	¼" Air Shut-off Valve	2

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

Item	Model	Description	Qty.
60	2600-001	Hose Console	1
61	8134-030	¾" Air/Water Hose	2
62	8241-030	½" 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	¼" Air Shut-off Valve	1
68	3230-002	½" Fluid Shut-off Valve	6

## GEAR OIL PUMP SYSTEMS

Item	Model	Description	Qty.
20	1130-016	Panther HP® 5:1 Pump	1
21	3260-034	¼" FR	1
22	3230-002	½" Fluid Shut-off Valve	3
23	3320-002	Non-metered Handle	2
24	3230-003	¼" 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 ½"	5
74	2220-010	Sig. Air/W Reel 30' x ¾"	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	¼" Air Shut-off Valve	1
79	3230-002	½" Fluid Shut-off Valve	5

## ATF PUMP SYSTEMS

Item	Model	Description	Qty.
30	1130-015	Panther HP® 3:1 Pump	1
31	3260-034	¼" FR	1
32	3230-002	½" Fluid Shut-off Valve	1
33	3230-003	¼" Air Shut-off Valve	1

## GREASE PUMP SYSTEMS

Item	Model	Description	Qty.
80	1151-004	Panther HP® 50:1 Pump	1
81	3260-034	¼" Filter-Regulator	1
82	3230-001	½" HP Shut-off Valve	3
83	3310-026	Grease Handle	2
84	3230-003	¼" 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	¼" Filter-Regulator	1
43	3230-003	¼" Air Shut-off Valve	1
44	4140-013	Evacuation Hose	2

## WW & COOLANT SYSTEMS

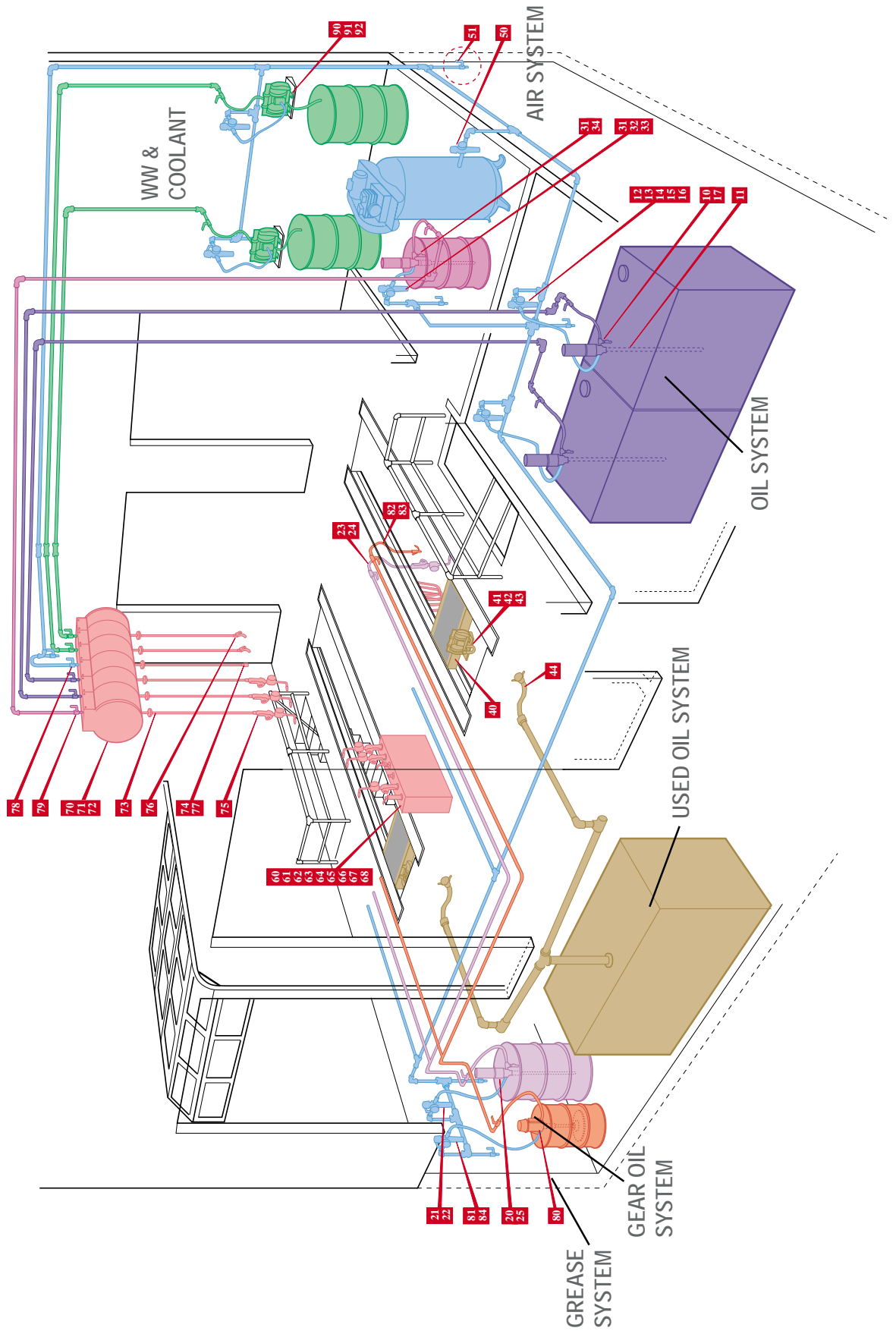
Item	Model	Description	Qty.
90	1121-006	½" Diaphragm Pump Outfit	2

## COMPRESSED AIR SYSTEMS

Item	Model	Description	Qty.
50	3260-037	¾" Filter-Regulator	1
51	3230-003	LP Air Bleed Valves	1

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

# TYPICAL 2-BAY QUICK LUBE LAYOUT



# 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 of air to pumps. Except as noted, maximum pressures shown represent the fluid pressure at the pump outlets when connected to their highest rated air supply pressure. 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

## Grease 0-200 ft.

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

## 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

## Grease over 200 ft.

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

## 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
Lynx	1:1	180 PSI	3/4"	0.025"	3/4"	Sch. 40
Panther®	3:1	490 PSI	3/4"	0.025"	3/4"	Sch. 40
Panther®	5:1	760 PSI	3/4"	0.025"	3/4"	Sch. 40
Tiger®	6:1	870 PSI	1"	0.025"	1"	Sch. 40
Lion™	5:1	800 PSI	1-1/4"	0.025"	1-1/2"	Sch. 40
Lion™	10:1	1300 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	490 PSI	1"	0.035"	1"	Sch. 40
Panther®	5:1	760 PSI	1"	0.035"	1"	Sch. 40
Tiger®	6:1	870 PSI	1-1/4"	0.035"	1-1/4"	Sch. 40
Lion™	5:1	800 PSI	1-1/2"	0.035"	1-1/2"	Sch. 40
Lion™	10:1	1300 PSI	1"	0.049"	3/4"	Sch. 40



(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 Balcra 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.

# Balcrank



HOSE REELS

## Fluid Dispensing Systems

# HOSE REELS



# HOSE REELS | SIGNATURE™ SERIES

HOSES REELS

## FEATURES & BENEFITS

Eight position locking precision die cast latch mechanism, with secure easy-touch pull release

Machined thick wall hub parts for high strength and pressure capability

Heavy gauge stamped rims, outlet arm, and base.

Easy hose replacement due to single-arm outlet design

Five-position outlet arm for ceiling, wall, or tank-top hose reel mounting

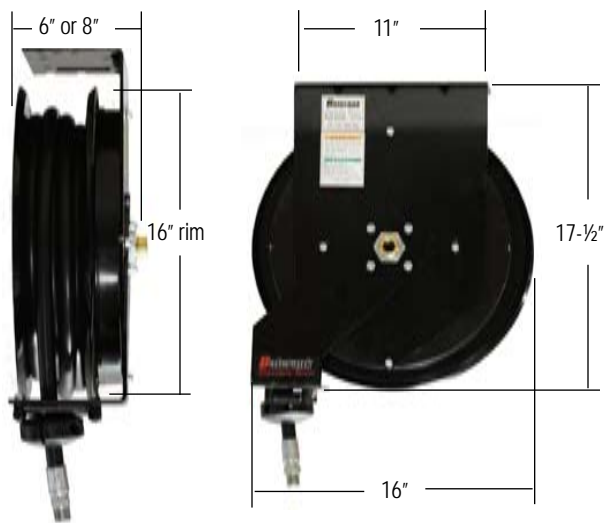
Tangential outlet position to reduce hose bending over outlet rollers

Wide six-roller outlet prevents hose pinch, reduces hose wear

Ball stops are included with hose



## DIMENSIONS



Reference SB2002

## 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, & 50 feet hose lengths available Styles for air, water, oil, and grease
- Custom powder coat paint colors available (Pg. 61)

AIR/WATER/COOLANT/WW	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
3/8" Hose: Max. WP - 300 PSI Outlet Thread - 1/4" NPT(M)	2120-014	30' x 3/8"	2120-016	8134-030	8141-002 <sup>(1)(2)</sup>
	2120-005	40' x 3/8"	2120-017	8134-040	8141-002 <sup>(1)(2)</sup>
1/2" Hose: Max. WP - 300 PSI Outlet Thread - 1/2" NPT(M)	2120-015	50' x 3/8"	2120-017	8134-050	8141-002 <sup>(1)(2)</sup>
	2120-021*	30' x 3/8"	2120-016	8134-030	8141-002 <sup>(1)(2)</sup>
**Nitrogen Green Hose: Max. WP - 300 PSI	2120-020	50' x 1/2"	2120-017	8141-050	8141-002 <sup>(1)(2)</sup>
	2120-025**	30' x 3/8"	2120-017	8135-030	8141-002 <sup>(1)(2)</sup>
	2120-026**	50' x 3/8"	2120-017	8135-050	8141-002 <sup>(1)(2)</sup>

OIL, ATF	Model Number	Hose Size	Bare Reel	Hose	Inlet Hose
1/2" Hose: Max. WP - 3,000 PSI Outlet Thread - 1/2" NPT(M)	2120-011	30' x 1/2"	2120-016	8241-030	8249-002 <sup>(1)(2)</sup>
	2120-012	40' x 1/2"	2120-017	8241-040	8249-002 <sup>(1)(2)</sup>
	2120-013	50' x 1/2"	2120-017	8241-050	8249-002 <sup>(1)(2)</sup>
	2120-022*	16' x 1/2"	2120-016	8241-016	8249-002 <sup>(1)(2)</sup>

GREASE	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
1/4" Hose: Max. WP - 5,000 PSI Outlet Thread - 1/4" NPT(M)	2120-001	30' x 1/4"	2120-018	8321-030	8332-002 <sup>(1)</sup>
	2120-002	40' x 1/4"	2120-019	8321-040	8332-002 <sup>(1)</sup>
3/8" Hose: Max. WP - 4,000 PSI	2120-006	50' x 1/4"	2120-019	8321-050	8332-002 <sup>(1)</sup>
	2120-003	30' x 3/8"	2120-018	8331-030	8332-002 <sup>(1)</sup>
	2120-004	40' x 3/8"	2120-019	8331-040	8332-002 <sup>(1)</sup>
	2120-007	50' x 3/8"	2120-019	8331-050	8332-002 <sup>(1)</sup>

DIESEL FUEL	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
3/4" Hose: Max. WP - 50 PSI Outlet Thread - 3/4" NPT(M)	2120-024	30' x 3/4"	2120-027	8466-030	8466-002

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

HOSES REELS

## FEATURES & BENEFITS

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

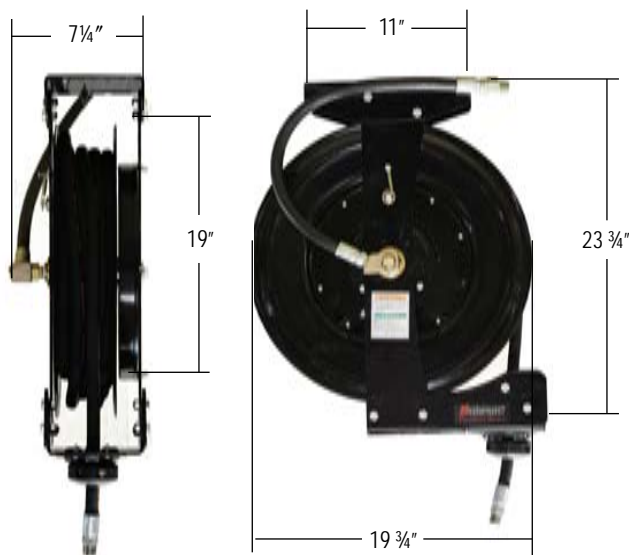
Sliding roller outlet prevents hose stack-up

Circular, six-roller outlet prevents hose pinch, reduces hose wear

Ball stops are included with hose



## DIMENSIONS



Reference SB2015

## 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. 61)
- Ceiling, wall, tank mount, or mobile lube



AIR/WATER/COOLANT/WW	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
3/8" Hose: Max. WP - 300 PSI Outlet Thread - 1/4" NPT(M)	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
1/2" Hose: Max. WP - 300 PSI Outlet Thread - 1/2" NPT(M)	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	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
1/2" Hose: Max. WP - 3,000 PSI Outlet Thread - 1/2" NPT(M)	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	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
1/4" Hose: Max. WP - 5,000 PSI Outlet Thread - 1/4" NPT(M)	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
3/8" Hose: Max. WP - 4,000 PSI Outlet Thread - 1/4" NPT(M)	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"	19.75"	7.5"	23.75"
2111-022*	60'	1/2"	3,000	1/2"	1/2"	19.75"	7.5"	23.75"
2111-023 <sup>(1)*</sup>	60'	1/2"	3,000	1/2"	1/2"	19.75"	7.5"	23.75"
2111-024*	40'	1/2"	3,000	1/2"	1/2"	19.75"	7.5"	23.75"
2111-025*	40'	3/8"	8,000	3/8"	1/4"	19.75"	7.5"	23.75"

Premium™ Series reels are sold in three configurations: ceiling mount, wall or side mount, and base mount. The following rules apply to make purchasing hose reels quick and simple:

- \* When ordering ceiling mounted reels, use the current model number.
- When ordering wall or side mounted reels, use the current model number and add the suffix S.
- When ordering base mounted reels, use the current model number and add the suffix B.

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

# HOSE REELS | PREMIUM™ EVX SERIES

HOSES REELS

## FEATURES & BENEFITS

Large Hose capacity – handles a maximum of 100 ft. of hose, depending on fluid application and hose diameter.

Ball stops are included with hose

Rectangular Shaped roller outlet – prevents hose pinch and stacking.

Dual outlet arm – for rigidity and strength

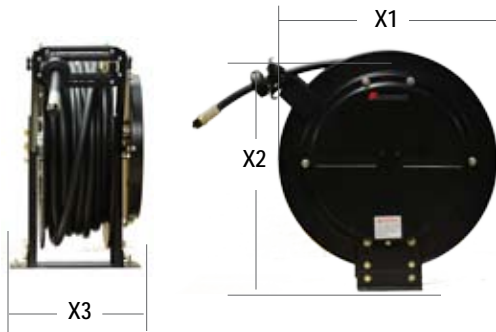
Powder coated – for a lifetime finish.

Spring canister – protects power spring from corrosion caused by the elements.

Heavy gauge steel base – ideal for mobile equipment application.



## Dimensions



Reference SB2020

Model Number	X1	X2	X3
2310-018	21.000	20.750	12.375
2310-019	21.000	20.750	12.375
2310-020	21.000	20.750	12.375
2310-021	23.000	22.000	17.500
2310-022	23.000	22.000	17.500
2310-023	21.000	20.750	12.375

## BENEFITS

- **Versatile installation:**  
Tank or mobile lube mounting.
- **Improved steel construction; base, uprights, outlet arm:**  
Provides substantial rigidity and strength
- **Double supported hose outlet arm:**  
Provides extra support for larger hose diameters and mobile equipment applications
- **NEW, ball-bearing performance :**  
Designed to reduce torque load of power spring and provides smooth hose retraction and long term reliability
- **High-volume design:**  
Reduces fill rate time and improves overall efficiency.
- **Model choices:**  
air/water, lube, grease and diesel.
- Models ordered with outlet hose include hose stop and 3' inlet hose.

<b>AIR/WATER/COOLANT/WW</b>	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
1/2" Hose: Max. WP - 150 PSI Outlet Thread - 1/2" NPT(M)	2310-018	1/2" x 100'	2310-023	8141-100	8141-003

<b>OIL/ATF</b>	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
1/2" Hose: Max. WP - 2,000 PSI Outlet Thread - 1/2" NPT(M)	2310-019	1/2" x 100'	-	8241-100	8241-003

<b>GREASE</b>	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
3/8" Hose: Max. WP - 4,000 PSI Outlet Thread - 3/8" NPT(M)	2310-020	3/8" x 100'	-	8333-100	8333-003

<b>DIESEL</b>	Model Number	Hose Size	Bare Reel	Outlet Hose	Inlet Hose
1" Hose: Max. WP - 50 PSI Outlet Thread - 1" NPT(M)	2310-021	1" x 65'	2310-022	8481-065	8481-003

<b>BARE REELS</b>	Model	Max Hose Capacity	Bare Reel	Thread Size NPT(F)	Fluid Type	
		lgth	WP(PSI)	Inlet	Outlet	
	2310-022	65'	1250	1"	1"	Oil
	2310-023	100'	650	1/2"	1/2"	Air/Water

**Approximate Weight of reel with hose:**

2310-018	75 lbs.
2310-019	85 lbs.
2310-020	95 lbs.
2310-021	95 lbs.
2310-022	86 lbs.
2310-023	60 lbs.



# HOSE REELS | ENCLOSED HOSE REELS

HOSES REELS

## FEATURES & 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 for 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 61-62 to select end panels and mounting accessories. Reference SB2009.

AIR/WATER/COOLANT/WW	Signature Series	Premium Series	Hose Size	Outlet Hose	Inlet Hose
3/8" Hose: Max. WP - 300 PSI Outlet Thread - 1/4" NPT(M)	2220-010		30' x 3/8"	8134-030	8141-002
	2220-011		40' x 3/8"	8134-040	8141-002
		2211-012	50' x 3/8"	8134-050	8141-002
		2211-013	60' x 3/8"	8134-060	8141-002

OIL, ATF	Signature Series	Premium Series	Hose Size	Outlet Hose	Inlet Hose
1/2" Hose: Max. WP - 3,000 PSI Outlet Thread - 1/4" NPT(M)	2220-008		30' x 1/2"	8241-030	8249-002
	2220-005		40' x 1/2"	8241-040	8249-002
		2211-009	50' x 1/2"	8241-050	8249-002
		2211-015	60' x 1/2"	8241-060	8249-002

GREASE	Signature Series	Premium Series	Hose Size	Outlet Hose	Inlet Hose
1/4" Hose: Max. WP - 5,000 PSI Outlet Thread - 1/4" NPT(M)	2220-001	2211-001	30 x 1/4"	8321-030	8332-002
	2220-004		40 x 3/8"	8331-040	8332-002
3/8" Hose: Max. WP - 4,000 PSI Outlet Thread - 1/4" NPT(M)		2211-007	50' x 3/8"	8321-050	8332-002
		2211-017	60' x 3/8"	8331-060	8332-002

ELECTRIC LIGHT CORD*	Model Number	Cord Size	Cord* Reel
	2530-001	50' x 18 gauge	2510-010

\* please see page 105

# HOSE REELS | ENCLOSED REEL ACCESSORIES

## END & SIDE PANELS

## 2230-014 - SIGNATURE™ / PREMIUM MOUNTING CHANNEL PLATE



Includes two panels.

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.

2230-001 - End Panels Black Poly

2230-022 - End Panels Metal - see custom paint colors below

2230-023 - End Panels White Poly

810612 - Side Panels Black Poly



2230-014

## 2230-002 - I-BEAM MOUNTING BRACKET

## MOUNTING CHANNELS



**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.



**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"

## CUSTOM PAINT COLORS

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

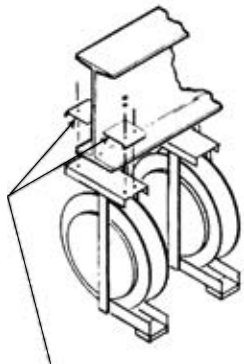
Custom colors are available on all open and enclosed reels. Balcrank's STANDARD paint colors for reels are gloss and textured black. A SPECIAL color is the customer's choice of the other colors in Balcrank's inventory. These paint colors are: yellow, white, blue, silver, red, and green. All SPECIAL color 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

HOSES REELS

## 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 EVX Hose Reels)



2230-013 mounting bracket pair

## 2230-016 - SIGNATURE™ / PREMIUM MOUNTING ADAPTER PLATE KIT

The purpose of the kit is to facilitate the field installation of a Balcrank Signature™ Series Hose Reel onto a previously installed Graco mounting plate or Graco Series 250 and 350 hose reels. The mounting plate is designed to be used on Signature™ Series Hose Reels

## TANK SADDLE

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 attachments, no welding or tank modifications required. Order separate vent kit, Model 4520-007, to attach to saddle to standard oval tanks at the vent cap location.  
SB 4013



4520-007

## 2230-017 - SIGNATURE™ / PREMIUM 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.



## HOSE STOPS



Hose End Stops: Cushion hose return prevent excessive retraction.

MODEL	HOSE I.D.
2230-009	1/4"
2230-010	3/8", 1/2"
2230-011	3/4"
2230-012	1"

# 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**

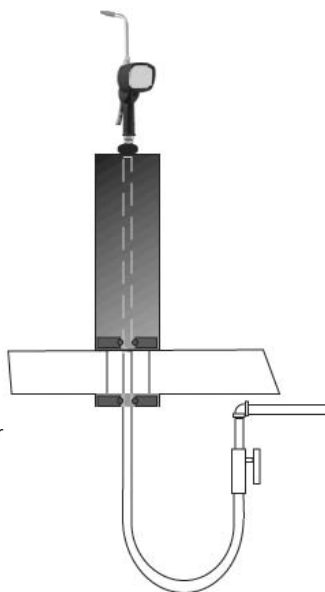
Low cost alternative to hose reels  
Uses shorter hoses than overhead reels  
Gravity hose tethering uses basement pit  
Low maintenance, less downtime

- **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 64. 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



2600-001 LUBE CONSOLE

2600-003 Lower Hose Guide Assembly (one included)



## ACCESSORIES

- **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.



- **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.



- **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.

# HOSE REELS | REPLACEMENT HOSES

For complete hose model specification, combine "Model Prefix" 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.	Max WP (PSI)	Hose End Threads (NPT)	2	3	5	6-7	8-10	16	20-25	30	40	50	60	70
8132	Air/Water	3/8"	300	1/4" M...1/4" M	-003	-003	-005					-030	-040	-050	-060	
8134	Air/Water	3/8"	300	1/2" M...1/4" M	-003	-003					-016	-030	-040	-050	-060	
8135	Nitrogen (Green)	3/8"	300	1/4" M...1/2" M								-030		-050		
8136	Air /Water	3/8"	300	3/8" M...3/8" M	-003	-003	-005									
8141	Air/Water	1/2"	300	1/2" M...1/2" M	-002	-003	-005	-006	-010	-016	-020	-030	-040	-050	-060	
8144	Air/Water	1/2"	300	1/2" M...3/8" M	-003	-003	-005									
8161	Air/Water	3/4"	315	3/4" M...3/4" M			-005							-060	070	
8181	Air/Water	1"	250	1" MSW...1" MSW	-002			-006						-050		
8231	Oil	3/8"	3,000	3/8" M...3/8" M	-003	-003	-005	-006					-040	-050		
8232	Oil	3/8"	3,000	3/8" M...1/4" M												
8233	Oil	3/8"	3,000	1/2" M...1/2" M					-016			-030		-050		
8241	Oil	1/2"	3,000	1/2" M...1/2" M				-006	-008	-016	-020	-030	-040	-050	-060	-070
8242	Oil	1/2"	3,000	3/8" M...3/8" M	-002	-003	-005	-006	-010		-020	-030		-050		
8249	Oil	1/2"	3,000	1/2" M...1/2" MSW	-002	-004	-005	-006	-010	-016						
8261	Oil	3/4"	1,250	3/4" M...3/4" M		-003	-005	-007	-010		-025			-050		
8262	Oil	3/4"	1,250	1/2" M...1/2" M					-010		-020	-030		-050		
8263	Oil	3/4"	1,250	3/4" M...1/2" M	-002				-010		-020	-030		-050	-060	
8264	Oil	3/4"	2,250	3/4" M...3/4" MSW			-005									
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				-007	-010	-016		-030	-040	-050	-060	
8322	Grease	1/4"	5,000	1/2-27 F...1/2-27 F	-002	-003	-005		-010		-020			-050		
8323	Grease	1/4"	5,000	1/4" M...3/8" M				-007				-030		-050		
8331	Grease	3/8"	4,000	1/4" M...1/4" MSW	-002	-003	-005	-007	-010	-016	-020	-030	-040	-050	-060	
8332	Grease	3/8"	4,000	1/4" M...3/8" M	-002		-005					-030		-050	-060	
8333	Grease	3/8"	4,000	3/8" M...3/8" M	-002	-002	-005	-007				-030		-050	-060	
8466	Diesel	3/4"	50	3/4" M...3/4" M	-002							-030		-050		
8481	Diesel	1"	50	1" M...1" M	-002									-050		



# Balerank



Fluid Dispensing Systems

CONTROL HANDLES

# CONTROL HANDLES



## FEATURES

- One piece cast aluminum housing
- Shock resistant 5-digit resettable batch totalizer
- Non-resettable accumulative totalizer and a hidden resettable totalizer -used to track daily, weekly or monthly usage
- Sleep mode (2 minutes idle limit) to preserve battery life
- EEPROM retention allows all information to be retained if batteries are removed
- Oval gear mechanism for optimum accuracy
- Two outlet nozzle positions (in-line or pistol style), fits rigid, flex or flex 90 extension with automatic nozzle

## SPECIFICATIONS

### Units of Measure:

quart, gallon, pint or liter

### Compatible Fluids:

engine oil, diesel oil, automatic transmission fluid and anti-freeze with a maximum viscosity of SAE 140

### Wetted Components:

aluminum, acetal, steel, nitrile rubber

### Accuracy:

+/- 0.5% of reading (lubricating oils)

### Flow Range:

1-30 L/min (0.26-8 US gal/min)

### Max pressure:

1000 PSI, 103.5 bar

### Weight:

1.16kg, 2.55 lbs

### Swivel inlet:

½" NPT

### Operating temp:

32 °F (0° C) to 122 °F ( 50 °C)

### Battery:

2 x 1.5 volt alkaline AA



3330-054

Reference SB3026

## MODELS AVAILABLE

Model	Type	Extension	Nozzle
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
3330-058	Bare		

\*Pistol Grip

\*\* Manual nozzle assembly not recommended for this meter assembly

## 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.



## FEATURES

- One piece cast aluminum housing
- Shock resistant 5-digit resettable batch totalizer
- Non-resettable accumulative totalizer and a hidden resettable totalizer -used to track daily, weekly or monthly usage
- 5 variable preset totals available and simple hand latch design
- Sleep mode (2 minutes idle limit) to preserve battery life
- EEPROM retention allows all information to be retained if batteries are removed
- Oval gear mechanism for optimum accuracy
- Two outlet nozzle positions (in-line or pistol style), fits rigid, or flex extension with semi-automatic nozzle



3331-014

Reference SB3021

## SPECIFICATIONS

**Units of Measure:**

quart, gallon, pint or liter

**Compatible Fluids:**

engine oil, diesel oil, automatic transmission fluid and anti freeze with a maximum viscosity of SAE 140

**Wetted Components:**

aluminum, acetal, steel, nitrile rubber

**Accuracy:**

+/- 0.5% of reading (lubricating oils)

**Flow Range:**

1-30 L/min (0.26-8 US gal/min)

**Max pressure:**

1000 psi, 103.5 bar

**Weight:**

1.16kg, 2.55 lbs

**Swivel inlet:**

½" NPT

**Operating temp:**

32° F (0 °C) to 122 °F ( 50 °C)

**Battery:**

2 x 1.5 volt alkaline AA

### MODELS AVAILABLE

Model	Type	Extension	Nozzle
3331- 014	Straight	3332 - 045	Semi-Auto
3331- 020	Flex	3332 - 046	Semi-Auto
3331- 012	Bare		

\*\* Manual nozzle assembly not recommended for this meter assembly

### 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.



## FEATURES

- One piece cast aluminum housing
- Shock resistant 4-digit resettable batch totalizer
- 6-digit non-resettable accumulative totalizer
- One touch batch reset operation
- Oval gear mechanism for optimum accuracy
- Two outlet nozzle positions (in-line or pistol style), fits rigid, flex or flex 90 extension with automatic nozzle

CONTROL HANDLES

## SPECIFICATIONS

### Units of Measure:

Quart or liter

### Compatible Fluids:

engine oil, diesel oil, automatic transmission fluid and anti-freeze with a maximum viscosity of SAE 140

### Wetted Components:

Aluminum, acetal, steel, nitrile rubber

### Accuracy:

+/- 1% of reading (lubricating oils)

### Flow Range:

1-30 L/min (0.26-8 US gal/min)

### Max pressure:

1000 PSI, 103.5 bar

### Weight:

1.16kg, 2.55 lbs

### Swivel inlet:

½" NPT

### Operating Temperature:

23 °F (-5 °C) - 122 °F (50 °C)

## 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.



3330-037

Reference SB3022

## MODELS AVAILABLE

Model	Type	Unit of		
		Measure	Extension	Nozzle
3330-037	Rigid	Qt	3332-040	Automatic
3330-038	Flex	Qt	3332-041	Automatic
3330-039	Flex 90	Qt	3332-043	Automatic
3330-040	Rigid	Lt	3332-040	Automatic
3330-041	Flex	Lt	3332-041	Automatic
3330-042	Flex 90	Lt	3332-043	Automatic
3330-060	Straight*	Qt	3332-044	Automatic
3330-061	Straight*	Lt	3332-044	Automatic
3330-049	Bare	Qt		
3330-050	Bare	Lt		

\*Pistol Grip

\*\* Manual nozzle assembly not recommended for this meter assembly

## FEATURES

- One piece cast aluminum housing
- High impact resistant nylon shroud protects knob and dial from damage
- Pointer knob is reset to zero after each delivery of fluid
- Models available with rigid, flex or flex 90 extension with automatic nozzle

## SPECIFICATIONS

**Units of Measure:**

gallon, quart, pint or liter

**Compatible Fluids:**

engine oil, diesel oil, automatic transmission fluid and anti-freeze with a maximum viscosity of SAE 140

**Wetted Components:**

aluminum, steel, Buna-N rubber

**Accuracy:**

+/- 0.65% of reading (lubricating oils)

**Flow Range:**

1.5-15 L/min (0.4-4 US gal/min)

**Max Pressure:**

1000 psi, 70 bar

**Weight:**

1.5kg, 3.3 lbs

**Swivel Inlet:**

½" NPT

**Operating Temperature:**

Max 110° F (45° C)



3330-008

CONTROL HANDLES

Reference SB3025

\*Models 3330-010 compatible with antifreeze.

### MODELS AVAILABLE

Model	Type	Unit of Measure	Extension	Nozzle
3330-140	Flex 90	Pt	3332-019	Auto-Lock
3330-008	Straight	Qt	3332-024	Auto-Lock
3330-009	Flex	Qt	3332-067	Auto-Lock
3330-010*	Straight	Qt	3332-024	Auto-Lock
3330-141	Flex 90	Lt	3332-019	Auto-Lock
3330-017	Straight	Lt	3332-024	Auto-Lock
3330-019	Flex	Lt	3332-067	Auto-Lock
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.



# CLASSIC SERIES | MECHANICAL PRE-SETTABLE DISPLAY

## FEATURES

- One piece cast aluminum housing
- High impact resistant nylon shroud protects knob and dial from damage
- Pre-settable knob rotates counter-clockwise to set desired amount of fluid
- Pointer knob rotates towards zero, releasing trigger which automatically stop flow
- Models available with rigid, flex or flex 90 extension with semi-automatic nozzle



3331- 001

Reference SB3035

\*Model 3331-006 compatible with antifreeze.

## SPECIFICATIONS

### Units of Measure:

gallon, quart, pint or liter

### Compatible Fluids:

engine oil, diesel oil, automatic transmission fluid and anti-freeze with a maximum viscosity of SAE 140

### Wetted Components:

aluminum, steel, Buna-N rubber

### Accuracy:

+/- 3% of reading (lubricating oils)

### Flow Range: 1

.5-15 L/min (0.4-4 US gal/min)

### Max pressure:

1000 psi, 70 bar

### Weight:

1.5kg, 3.3 lbs

### Swivel inlet:

½" NPT

### Operating Temperature:

Max 110 ° F (45° C)

## MODELS AVAILABLE

Model	Type	Unit of Measure	Extension	Nozzle
3331- 001	Straight	60 qts	3332-030	Semi-Auto
3331- 003	Straight	60 gal.	3332-030	Semi-Auto
3331- 004	Straight	16 qts.	3332-030	Semi-Auto
3331-006*	Straight	60 qts.	3332-030	Semi-Auto
3331-015	Straight	16 lt.	3332-030	Smei-Auto

## 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.



CONTROL HANDLES

## FEATURES

- Robust grip with built in trigger guard
- Resettable batch display, resettable totalizer in gallon or liters and non resettable totalizer in gallons
- Meter can be field calibrated if needed
- Totalizer and calibration data retained when batteries are removed
- Color product identification caps included: red, green, blue and yellow.
- Oval gear mechanism for optimum accuracy
- Models available with rigid, flex, or flex 90 lance assemblies with automatic nozzle

## SPECIFICATIONS

### Units of Measure:

(Batch) quart, gallon, pint or liter (totalizer) gallon or liter

**Compatible Fluids:** Engine oil, diesel oil, and automatic transmission fluid with a maximum viscosity of SAE 140

### Wetted Components:

aluminum, acetal, steel & Buna-N rubber

**Measuring Accuracy:** +/- .5% of reading (lubricating oils)

**Flow Rates:** .25-7 gal/min (1-25L/min)

**Pressure:** 1000 PSI (70 bar)

**Weight:** 1.55 lbs (0.70 kg)

**Threads:** ½ NPT compatible inlet and outlet threads

**Operating temperature:** 32 degrees to 140 degrees F (60 C)

**Battery:** 2 x 1.5 volt alkaline AAA



3330-143



Set of Colored Identification Caps included with each model

Reference SB3070

## MODELS AVAILABLE

Model	Type	Extension	Nozzle
3330-142	Rigid	832190	Manual
3330-143	Flex	832199	Manual
3330-144	Flex 90	831789	Manual

# IN-LINE SERIES | ANALOG

## FEATURES

- Robust grip with built in trigger guard.
- Easy to read and resettable 4-digit analog batch display
- Non resettable 5-digit analog totalizer display
- Colored product identification caps included: red, green, blue and yellow.
- Oval gear mechanism for optimum accuracy
- Models available with rigid, flex for flex 90 lance assemblies with automatic nozzle

CONTROL HANDLES

## SPECIFICATIONS

### Units of Measure:

(Batch) quart, (totalizer) gallon

**Compatible Fluids:** Engine oil, diesel oil, and automatic transmission fluid with a maximum viscosity of SAE 140

### Wetted Components:

aluminum, acetal, steel & Buna-N rubber

**Measuring Accuracy:** +/- .1% of reading (lubricating oils)

**Flow Rates:** .25-7 gal/min (1-25L/min)

**Pressure:** 1000 PSI (70 bar)

**Weight:** 1.75 lbs (0.79 kg)

**Threads:** ½ NPT compatible inlet and outlet threads



3330-146



Set of Colored Identification Caps included with each model

Reference SB3069

## MODELS AVAILABLE

Model	Type	Extension	Nozzle
3330-145	Rigid	832190	Manual
3330-146	Flex	832199	Manual
3330-147	Flex 90	831789	Manual



## 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, semi-automatic or automatic nozzle
- Compatible with motor oils, gear oils, synthetics, ATF, antifreeze, and windshield washer fluid
- Swivel Inlet - ½" NPT
- Flow rate:  
Standard - 8 GPM  
High Flow - 12 GPM



Set of Colored Identification Caps included with each model



3320-003

3320-001

Reference SB3008

### MODELS AVAILABLE

Model	Type	Extension	Nozzle
3320-001	Rigid	3332-087	Auto-Lock
3320-003	Flex	3332-088	Auto-Lock
3320-005	Flex 90	3332-089	Auto-Lock
3320-006	Rigid - locking	3332-087	Auto-Lock
3320-007	Flex - locking	3332-088	Auto-Lock
3320-015	Rigid	832190	Manual
3320-016	Flex 90	831789	Manual
3320-021	Flex	832199	Manual

## High Flow



3320-020

3320-019

Reference SB3008

### MODELS AVAILABLE

Model	Type	Extension	Nozzle
3320-017	Rigid High Flow	3332-063	Semi-auto
3320-018	Flex High Flow	3332-046	Semi-auto
3320-019	Rigid HF- lock	3332-063	Semi-auto
3320-020	Flex - HF lock	3332-046	Semi-auto

# CONTROL HANDLES | ACCESSORIES

## NOZZLES

**3332-085** Auto Lock Nozzle



- Port size – 3/8" NPT(F)
- Maximum flow through the tip - 5.0 GPM
- Metallic Components – Zinc Plated Steel
- Seals – Buna-N
- Compatible Fluids – Motor oils, synthetic oils, gear oil, ATF, hydraulic oil, washer fluid

**3332-086** Automatic Nozzle



- Port size – 3/8" NPT(F)
- Maximum flow through the tip – 5.0 GPM
- Metallic Components – Zinc Plated Steel
- Seals – Buna-N
- Compatible Fluids – Motor oils, synthetic oils, gear oil, ATF, hydraulic oil, washer fluid

**3332-039** High Flow Semi Automatic Nozzle



- Port size - 3/8" NPT(F)
- Maximum flow through the tip -15.5 GPM
- Metallic Components - Zinc Plated Steel
- Compatible Fluids – Motor oils, synthetic oils, gear oil, ATF, hydraulic oil, washer fluid

## 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

## METERS

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
3120-066	Oil, ATF	Qt, Mechanical
3120-067	Oil, ATF	Gal, Qt, Pt, Lt



3120-066



3120-067

Reference SB3070 or SB3069

## EXTENSIONS & NOZZLES

Model	Inlet	Thread (M)	Type	Nozzle
3332-014	3/8"	NPT	Rigid	Automatic
3332-015	3/8"	NPT	Flex	Automatic
3332-027	3/8"	NPT	Straight	Automatic
3332-066	1/2"	NPT	Rigid	Auto-Lock

## FEATURES

- Precision-machined, all steel handle and forged body provides reliable service
- Precise, proportional trigger action
- Balanced and knurled grip for less fatigue
- Inlet screen included
- 7500 psi on standard handle and Booster model develops up to 10,000 psi
- Inlet size 1/4" npt
- Easily repaired for extended life



3310-009



3310-010



3310-025

### MODELS AVAILABLE - with BOOSTER

- 3310-007** Pro Series Booster Grease Handle
- 3310-009** Pro Series Booster Grease Handle with Z-swivel

### MODELS AVAILABLE

- 3310-008** Pro Series Grease Handle
- 3310-010** Pro Series Grease Handle with Z-swivel
- 3310-020** Pro Series Grease Handle with 36" Whip Hose and Z-swivel
- 3310-025** Pro Series Grease Handle with 18" Whip Hose and Z-swivel

# GREASE HANDLES | HEAVY DUTY

## FEATURES

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

Reference SB3044



3310-026



3310-027

## 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 |

## 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



### MODELS AVAILABLE

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

### FLEXIBLE EXTENSION

**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.



### 5310-020 - GREASE COUPLER



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

# OIL BARS

## 4200-014 OIL BAR

### Features:

- Up to four dispense points,
- Heavy duty, Metal body
- Drain with steel screen and ½" NPT hose connection,

### Dimensions:

13.25" deep x 28" wide x 35" high

Oil bar ships with one spigot. For two-, three-, and four-spigot oil bars, order additional 4200-012 spigots.

Service bulletin SB4038



## DISPENSER SPIGOTS

### Features:

- smooth trigger action,
- anti-splash flow diffuser
- shutoff valve.

Service bulletin SB4037.

## MODELS AVAILABLE

- 4200-011 Spigot Only
- 4200-012 Straight Stem for Oil Bars ½" NPT (F)
- 4200-013 Gooseneck ¾" NPT(M)



4200-012



4200-013

# Balcrank



## Fluid Dispensing Systems

# FLUID INVENTORY CONTROL

FLUID INVENTORY CONTROL



# FLUID INVENTORY CONTROL | fusion (CCS)

## FEATURES 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



## 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

## MODELS AVAILABLE

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

\*order lance separately

## LANCE AVAILABLE

- 3332-067** Flex, auto-lock  
**3332-066** Rigid, auto-lock  
**3332-083** Rigid, High Flow Semi-automatic  
**3332-084** Flex, High Flow Semi-automatic

## 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 Connection	½ NPT (order lance separately)

## 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 requirement	120 VAC, 60 Hz
Operating Temperature range	14 °F (-10 °C) to 140 °F (60 °C) (Indoor usage only)

fusion control handles are compatible with diesel fuel and may be sold and used for diesel dispensing.

\*\*fusion systems may not work with cordless phones, or other electronic devices within the same frequency range.



# FLUID INVENTORY CONTROL | fusion (DCS)

## FEATURES 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



## fusion SYSTEM SPECIFICATIONS

### 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

## MODELS AVAILABLE

<b>3110-013</b>	Master Keypad
<b>3110-014</b>	Dispense Keypad
<b>3331-018*</b>	Handle for petroleum based fluids
<b>3331-019*</b>	Handle for water based solutions, brake fluid
<b>3120-055</b>	Remote antenna with 17' cable
<b>3120-056</b>	Remote antenna with 30' cable
<b>3120-057</b>	Antenna Splitter
<b>3120-059</b>	50' RS 232 Cable
<b>3120-060</b>	100' RS 232 Cable
<b>3120-061</b>	Optional External Printer with cable

\*order lance separately

## LANCE AVAILABLE

<b>3332-067</b>	Flex, auto-lock
<b>3332-066</b>	Rigid, auto-lock
<b>3332-083</b>	Rigid, High Flow Semi-automatic
<b>3332-084</b>	Flex, High Flow Semi-automatic

## fusion WIRELESS CONTROL HANDLE SPECIFICATIONS

<b>Minimum and Maximum Flow</b>	5 – 10 GPM
<b>Maximum Operating Pressure</b>	1000 PSI
<b>Meter Accuracy</b>	+/- 0.5%
<b>LCD Display</b>	5 char; 10mm H x 5mm W
<b>Unit of Measurement</b>	Quarts, Liters, Pints, and Gallons
<b>Inlet/Outlet Connection</b>	½ NPT (order lances separately)

## fusion CONSOLE / KEYPAD SPECIFICATIONS

<b>Supervisor Accounts</b>	1
<b>Supervisory Authority</b>	Initialization, Configuration, Communication, & Reporting
<b>User IDs</b>	1 – 250
<b>Operator Authority</b>	Dispense Orders
<b>Tanks Calibration</b>	Quarts, Liters, Pints, and Gallons
<b>CPU</b>	TI MSP430 8-bit
<b>Communications – USA</b>	2-way 902-928MHz Frequency hopping spread spectrum*
<b>Power requiremen</b>	120 VAC, 60 Hz
<b>Operating Temperature range</b>	14 °F to 140 °F (-10 °C to 60°C) (Indoor usage only)

fusion control handles are compatible with diesel fuel and may be sold and used for diesel dispensing.

\*\*fusion systems may not work with cordless phones, or other electronic devices within the same frequency range.

## 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



3110-011

## 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.

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

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

\* Signal Cable is also used for Tank Guardian p. 88

# FLUID INVENTORY CONTROL | 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.



**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.



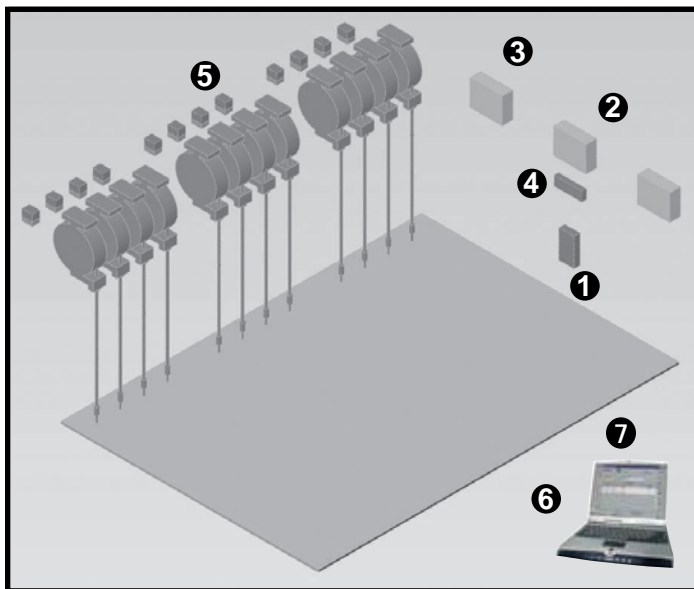
**5 3120-045 Meter Valve Unit** This unit takes the place of the impulse meter, fluid solenoid valve, and y-strainer. With this one unit, installation is simplified because system has fewer components. Install one Meter Valve Unit per reel. Order 3120-050 for WWF.



**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.

**7 3120-049 Power Cord** A cord to conduct power to the Spectrum 1000. 6 feet in length. 13 Amps at 125V. 1625 Watts

## DISPENSE ZONE WITH MAXIMUM EQUIPMENT



## TANK GUARDIAN



The Tank Guardian is used for real time tank monitoring on the Spectrum 1000 FIC system. Information can be found on page 86

# FLUID INVENTORY CONTROL | SPECTRUM 100™

FLUID INVENTORY CONTROL

## 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
- Pre programmed and tested before leaving the factory



### MODEL AVAILABLE

**3110-006P** Pre programmed Spectrum 100™ Queuing Console

### 832057 WIRE PREP KIT

**Wire Prep 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.

## INSTALLATION CABLE FOR SPECTRUM 100

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

**3121-XXX** Communication Power Cable  
**3122-XXX** Impulse Meter Cable  
**3123-XXX** Solenoid Valve Cable

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	-000

Service bulletin SB3039

### 3120-030 - 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

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

250 Ft. length cable connects communications port from Model 3120-035 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

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

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

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

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. For use with Spectrum™ 100 system. (24 VDC)



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

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

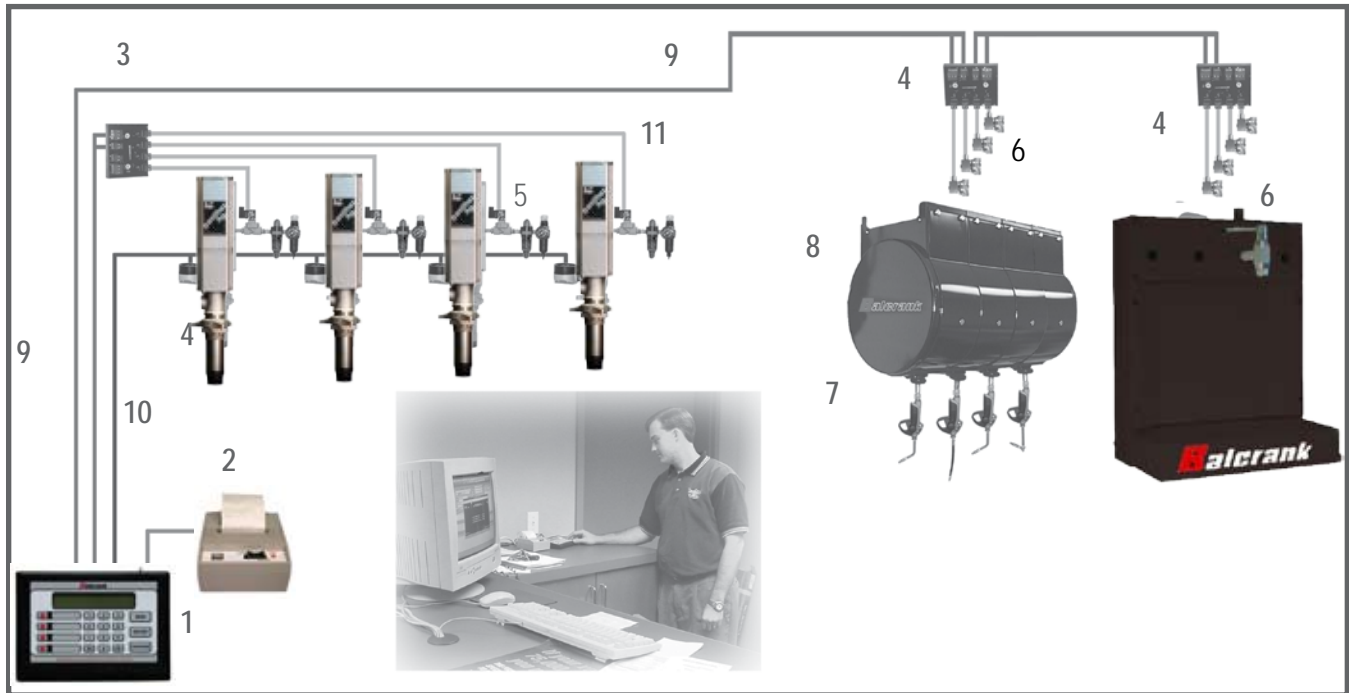
### 3120-040 - Y-Strainer - 1"

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. 1000 PSI Water Pressure @ 100 °F



# FLUID INVENTORY CONTROL | SPECTRUM 100™

## Typical Spectrum SYSTEM Layout - Four Fluids to Two Stations



FLUID INVENTORY CONTROL

### SYSTEM COMPONENTS

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

### 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 |

## 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\* Service bulletin SB3003.



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.

\*This is the only model available for coolant.

### Y STRAINER

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



For use in the fluid line prior to fluid solenoids to assure reliable solenoid valve operation. 1000 PSI water pressure @ 100 °F Filter element is easily cleaned. Order one per dispensing station.

### 3120-011 Air Solenoid Valve

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

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.



### 3120-031 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. For use with Spectrum™ 100 system. (24 VDC)



# 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
- 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 °F -140 °F (-17 °C - 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) Provides for the remote shutdown of dispensing pumps from the pump sentinel. Pressure rating 200 PSI; port thread size 3/8" NPT(F); 24 Volt DC power. Order one per controlled pump.

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.

Service bulletin SB3048



# Balcrank



## Fluid Dispensing Systems

# DRAINS

USED OIL  
EQUIPMENT



# 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.



USED OIL EQUIPMENT

## MODELS AVAILABLE

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

## 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

## 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

## PREMIUM DUTY SERIES

Note: Same Features as the Roughneck series on previous page with no pressurized fluid evacuation



4110-012



4110-017

## SPILLGUARD SERIES



4110-010



4110-018

## 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	.04-0.5 GPM
Suction hose	6.5 ft.
Draining hose	6.5 ft.
Dimensions	23" x 15" x 34"



## FEATURES:

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

## MODELS AVAILABLE

- 4110-006 - Five Gallon Lift Oil Drain
- 4111-001 - Replacement funnel and tube assembly for 4110-006
- 4111-002 - Drain Adapter
  
- 4310-006 - Dolly for 4110-006 Drain



\*Dolly sold separately

## USED OIL DRAINS & ACCESSORIES



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



4140-023

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, measurements 9"H x 24"W x 36"L
- 1" NPT drain port with plug
- Large 8" diameter wheels for easy rolling
- Large front caster with tubular U-handle for excellent maneuvering
- Internal baffles with upper screen to stabilize fluid during movement.
- Powder coat finish for excellent corrosion resistance (safety yellow)

Service bulletin SB4051



4120-002

## MODELS AVAILABLE

4120-006 Truck Drain

4120-002 Evacuation kit with nipple and male dry break coupler available

## ROLLING PIT DRAIN

## FEATURES:

- Capacity 34 Gallons - Fewer evacuations required
- Metal baffles with, anti-splash screens, and side splash guards - Reduces messy clean ups
- Ball drain valve and cam-lock coupler included - Provides cleaner and faster evacuations.
- Handy tool shelf built into unit - For easy tool storage and retrieval
- 3" diameter rollers - Can be adjusted to accommodate a pit width of 34" to 53"
- Roller height can be adjusted up or down 2"
- Service bulletin SB4018

**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.



**4140-021 Outfit Kit** Includes ball valve with nipple, quick couplers, and a dust cap.



## MODELS AVAILABLE

4140-011 Pit Drain with Outfit Kit

4140-020 Bare Pit Drain



# USED FLUID EQUIPMENT | EVACUATION SYSTEM

## COMPLETE OUTFITS

- 1121-011 - 1" Outfit Kit**  
 includes:  
 1120-013S - 1" Diaphragm pump (see page 42)  
 4140-015 - Used fluid hook up kit
- 1121-012 - 3/4" Outfit kit**  
 includes:  
 1120-019- 3/4" Diaphragm pump (see page 42)  
 4140-026- Used fluid hook up kit

4110-010  
Maximum Duty Drain



\*denotes included in kit

USED OIL EQUIPMENT

## EVACUATION OUTFITS



1121-001



4140-022

For more detail on these products please see page 44

## 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 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.

4520-014      0"-99"



## 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

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.

## SPECIFICATIONS

Electric motor	110 VAC/60Hz
Max. draining capacity	1.6 qts per minute
Horizontal suction	.33'
Vertical suction	.5'
Horizontal delivery	1.60'
Vertical delivery	1.10'
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



## 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



# Balcrank



## Fluid Dispensing Systems

# ACCESSORIES

ACCESSORIES



**BALCRANK ACCESSORIES**

**Pressur-Matic**  
 Model 47054 Pressur-Matic can be permanently installed handle for properly servicing pumps requiring as low as 100 psi (7 bar) pressure to approximately 8000 psi (550 bar) pressure. (Does not include volume on either high or low pressure tank for high pressure. Packed in crates with 1/2" M.P.T. inlet - 1/2" P.P.T. outlet.)

**Visible Air Line Oiler**  
 Model 358 Balcrank Visible Oiler automatically filters and removes dirt from air. Translucent sight tube lets you monitor when to oil. For use with equipment on all "Jet Power" pumps. Oiler only.

**Air Filters**  
 Model 32531 Air Filter for individual units or 1/2" or 3/4" fittings - protects equipment. 1/2" M.P.T. on Model 32729 Air Filter for installation in all 1/2" pipe other than those from air-protecting equipment. Filter included. 1/2" P.P.T. inlet and outlet.  
 Model 32740 Custom Filter Cartridge for Model 32729

**Blow Gun**  
 Model 41649 Air Blow Gun for heavy duty use.

**Air Pressure**  
 Model 32729

# ACCESSORIES | FILTER REGULATOR LUBRICATOR

## FEATURES & 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 PSI and flows of 15 SCFM.

### Standard Series for Heavy Duty Lube Systems

- Heavy duty metal body and bowls.
- Sight glasses standard on metal bowls for visible liquid levels.
- Rated for air system pressures up to 250 PSI.
- Optional automatic drains available for Filters.
- Available as individual units or assembled.
- In line mounting using standard piping and nipples.

## SPECIFICATIONS

### STANDARD SERIES

#### Filters:

- Excellent water removal with 40 micron filter large filter element surface
- Heavy duty zinc die cast body Metal bowl with sight glass Max. primary pressure 250 PSI Optional automatic filter drain

#### Regulators:

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

## SPECIFICATIONS

### MINI SERIES

#### Filters:

- Excellent water removal with 5 micron 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 included

#### Regulators:

- Heavy duty zinc die cast body Max. primary pressure 250 PSI 2-125 PSI regulation range Pressure gauge standard Full flow gauge ports -1/4"

#### 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 SIZE CHART

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

## 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 (For mini only)
3261-007	Mounting Bracket - 1/4" Mini Models
3261-008	Mounting Bracket - 1/4", 1/2", 3/8" Filter Regulators or Lubricators
3261-009	Mounting Bracket - 3/8", 1/2", 3/8", Filter, 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

# ACCESSORIES | FILTER REGULATOR LUBRICATOR

## 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
3260-033	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)
3260-060	1/4" NPT(F) mini, poly bowl

## 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)

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

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



Model	Line Size
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)
3260-059	1/4" NPT(F) mini, poly bowl

## 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)

## 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 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	3340-014	3340-010	3340-009
Description	Air Chuck	Radiator Faucet	Double Chuck	Single Chuck
Style	Short Stub Length Single Chuck Ball Foot	Thumb Valve Rubber Spout	Tire Inflator Double Outlet Chuck	Tire Inflator 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.

## HOSE STOPS

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

MODEL	HOSE I.D.
2230-009	1/4"
2230-010	3/8", 1/2"
2230-011	3/4"
2230-012	1"



## 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



3270-001



3270-003



3270-002

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)

## IN LINE HAND OPERATED VALVE

MODEL	PRESSURE RATING PSI	THREAD SIZE
3230-003	200 (air)*	¼" NPT(F)
3230-004	200 (air)*	½" NPT(F)
3230-002	2,000	½" NPT(F)
3230-006	2,000	¾" NPT(F)
3230-007	2,000	¾" NPT(F)
3230-008	2,000	1" NPT(F)
3230-001	10,000	½" NPT(F)

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



3230-004

3230-003



3230-001

## 4451-001 HOIST VALVE

Valve for raising and lowering air lift Model 4450-001



# ACCESSORIES | FITTINGS

## SWIVEL UNIONS

Model	3270-025	3270-046	3270-047	3270-048
Material	Steel	Steel	Steel	Steel
Max. W.P.	5,000	3,000	2,500	2,000
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	3270-009	3270-042	3270-044
Material	Brass	Brass	Brass	Brass	Brass	Brass
Max. W.P.	1,000	1,000	1,000	1,000	1,000	1,000
Thread Size (M)	1/4" NPT	1/2" NPT	1" NPT	1/8" NPT	3/8" NPT	3/4" 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	3270-027	3270-028
Material	Steel	Steel	Steel	Steel
Max. W.P.	4,000	3,000	3,000	3,000
Thread Size (A)	3/8" NPT(M)	1/2" NPT(M)	1/2" NPT(F)	1/2" NPT(M)
Thread Size (B)	3/8" NPT(F) Sw	1/2" NPT(F) Sw	1/2" NPT (M)	3/8" NPT(F)



## 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)

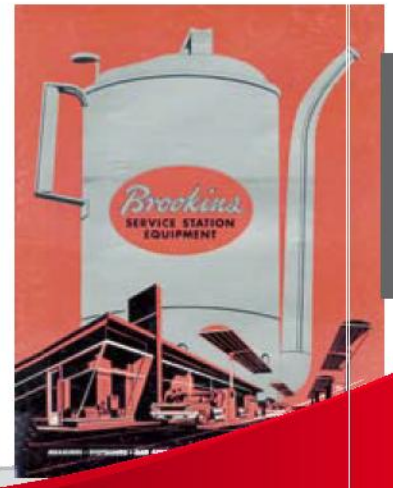


# Balcrank



## Fluid Dispensing Systems

# BROOKINS



BROOKINS

# BROOKINS | HAND PUMPS



**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 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, anti-freeze



**1300-022 - High Flow Rotary Pump**

**Features:**

- 1 gal. of fluid per 9 revolutions
- Suction Tube
- Bung Adapter
- Cast iron, steel, buna



**1300-026 - Suction Gun**

**Features:**

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



## FEATURES

- All steel construction – excellent rigidity and strength when side loads are applied
- Includes 2' x ½" inlet hose - provide fast easy connection to piping
- Powder coated finish – provides durability and corrosion resistance
- Steel latch mechanism – easy to hear and latch hose into desired position for use



## MODELS AVAILABLE

2130-002 Air Reel

## ELECTRIC CORD REELS



2510-010 - Light Cord Reel.

### Features:

- 50' cord length, 18 gauge
- Powder coated steel housing
- Protected on/off switch



2510-011 - Electric Cord Reel.

### Features:

- 30' cord length, 16 gauge
- Powder coated steel housing
- Adjustable spring steel hook
- Adjustable cord stop
- Reset-able circuit breaker
- 110-125V
- Max amp rating -10 amps
- 3 Conductor outlets

# BROOKINS | 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:**

- 2 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

8390-004-42" Hose Whip for 5200-011

## GREASE GUNS ACCESSORIES

### 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



### 8390-002 - 18" 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.



### 5310-022- REPLACEMENT GREASE COUPLER



## FILLERS

## USED OIL DRAINS



### 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



### 6330-005 - Drain

**Features:**

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

## BOTTLES



### 6420-006 Plastic Bottle

**Features:**

- 1 qt capacity



### 6420-007 - Spout and Dust Cap

**Features:**

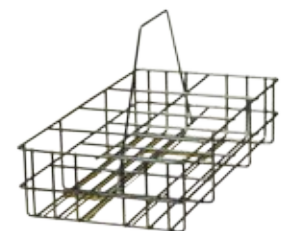
- 8 spouts and dust caps for 1 qt bottles



### 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 Eight 1qt bottles

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8323-030	64	828867	49	900002	49
8323-050	64	829298	49	900014	49
8331-002	64	829604	49	900019	49
8331-003	64	829605	49	900020	49
8331-005	64	831589	49	900020	49
8331-007	64	831590	49	900020	49
8331-010	64	831591	49	900020	49
8331-016	64	831592	49	900021	49
8331-020	64	831614	49	900022	49
8331-030	64	831621	49	900027	49
8331-040	64	831622	49	900027	49
8331-050	64	831886	93	900028	49
8331-060	64	831992	66	900028	49
8332-002	64	832014	49	900029	49
8332-005	64	832057	30	900030	49
8332-030	64	832332	30		
8332-050	64	832333	30		
8332-060	64	832334	30		
8333-002	64	832335	31		
8333-005	64	832336	31		
8333-007	64	832337	30		
8333-030	64	832338	30		
8390-002	77,107	832339	30		
8390-003	77	832344	31		
8466-002	64	832706	32		
8466-030	64	832776	31		
8466-050	64	832778	32		
8481-002	64	832836	31		
8481-050	64	832841	31		
810071	49	832845	31		
810612	61	832846	31		







### Customer Support

800-747-5300 or 828-645-4261 (M-F, 8 am - 5 pm EST)

- Order entry
- Product availability
- Pricing
- Basic product information
- Shipping dates and delivery information
- Product return authorization

### Order By Fax

800-763-0840 or 828-658-0840

- Fax orders day or night
- Free-up phone lines
- Order confirmed next business day by fax or email
- 

### Technical Support

800-747-5300 or 828-645-4261 (M-F, 8 am - 5 pm EST)

- Repair advice
- Product application recommendations
- Warranty claims and returns
- Service bulletins
- 

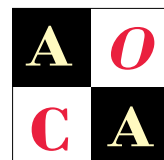
### Email Ordering & Online Support

- [www.balcrank.com](http://www.balcrank.com) - web site
- [info@balcrank.com](mailto:info@balcrank.com) - email
- [orders@balcrank.com](mailto:orders@balcrank.com) - email ordering

### Service Bulletins

- [http://www.balcrank.com/Service/service\\_bulletins.com](http://www.balcrank.com/Service/service_bulletins.com)

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