

Balcrank

Fluid Dispensing Systems



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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 drag links and for the first time, steering a car became an easy task.

To follow its drag links were ball-sockets for spark and throttle control. Next was 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 automotive lubrication industry. His inventions, which the world has adopted and still use today, remain his legacy.

The Cincinnati Ball Crank Company got its name from the production of ball-sockets and hand cranks. The company was commonly referred to as Ball Crank. In 1933, the Board of Directors voted to change the name Ball Crank to Balcrank, Inc.

In 1943, Balcrank received the three-star Army-Navy "E" Award, also known as the Army-Navy Production Award. This award was presented to facilities doing outstanding war production and construction work. The awarded facilities were particularly outstanding in the production of materials for the War and Navy Departments. Excellence in quality and quantity of production was two of the determining factors in granting awards.

After the war, Balcrank returned to its roots, manufacturing aftermarket lubrication equipment. Over the next 50 years, Balcrank introduced an average of three new products a year including the Pride series pumps, fluid inventory control systems, used fluid evacuation systems, and Diesel Exhaust Fluid (DEF) dispensing systems.

On July 9, 2009, Balcrank Corporation was acquired by Linter North America, a subsidiary of Linter Investments Corporation.

Balcrank is one of the oldest manufacturers of automotive products. Many of the methods and devices used in lubrication service today stem from the primary patents of Balcrank and its engineers. Balcrank continues its rich history and is still at the heart of the American automotive industry. Since its beginning, we have been providing our customers with the best products for the ever-changing automotive and industrial markets that exist today.



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 | The Cincinnati Ball Crank Company is formed | 2005 | Introduced custom color program for hose reels |
| 1906 | First in the mass production of machine handles and cranks for the machine tool and automotive industries | 2005 | Introduced Lion™ HP 5:1, 10:1, and 50:1 pumps |
| 1908 | First in mass production of the ball-socket type of tie-rod and drag link steering connection | 2005 | Introduced grease inductor pump systems for Lion™ HP and Panther® HP grease pumps |
| 1920 | First and only mass producer of tubular bumpers for automobiles | 2005 | Introduced air operated oil evacuation system |
| 1922 | Enters into the lubrication equipment field and invents and produces the first electric grease gun | 2006 | Introduced Pump Sentinel, a pump shutoff control system |
| 1923 | First patents on hydraulic coupler and fittings now universally used today | 2006 | Introduced Spectrum 1000™ fluid Inventory Control System |
| 1924 | Developed first air operated high-pressure/volume grease gun | 2007 | Implemented structural improvements to Premium reels |
| 1926 | Developed first air powered lubrication pump | 2007 | Introduced electrically operated e-vac oil evacuation system |
| 1930 | Developed first enclosed hose reels | 2007 | Introduced <i>fusion</i> wireless fluid inventory control systems |
| 1933 | Company changes name to Balcrank, Inc. | 2007 | Introduced complete tank packages for oil and transmission fluid |
| 1935 | First pump with Deluxe Container covers for weathered environments | 2008 | Introduced new generation of truck drain |
| 1948 | Engineered and released new Jet Power air operated pump | 2008 | Introduced a full range of Diesel Exhaust Fluid (DEF) dispensing systems |
| 1958 | Introduced larger capacity hose reels in “deluxe” cabinet | 2009 | Balcrank Corporation was acquired by Linter North America, a subsidiary of Linter Investments Corporation. |
| 1960 | Developed and introduced world's first high pressure coolant system | 2009 | Introduced Auto Lock nozzle |
| 1965 | Patents on Jet Pulser high-pressure coolant system | 2009 | Introduced 3:1 LYNX lube pump |
| 1968 | Introduced the original Director inventory control system | 2009 | Introduced ILM (In-Line metered) series Control Handles in both analog and electronic display |
| 1987 | Introduced the Director Jr. simplified inventory control system | 2010 | Introduces 1:1, 2:1 and 5:1 LYNX pumps |
| 1994 | Introduced the Dataflo electronic digital control handle | 2011 | Introduced Signature Evolution Series hose reel |
| 1996 | Introduced the Roughneck self-evacuating drain | 2011 | Introduced NEW Redesigned Signature Series Premium hose reel |
| 1998 | Cutting Edge high-pressure coolant segment formed | 2011 | Introduced LYNX 55:1 LYNX Portable Package |
| 1998 | Variable speed Cutting Edge high-pressure coolant systems developed | 2012 | Introduced EV and EVX hose reels |
| 1999 | Patents on Roughneck design | 2012 | Introduced Synergy fluid inventory management systems |
| 1999 | Introduced Panther® HP 3:1 and 5:1 air operated pumps | 2013 | Introduced 3/4" High Flow dispense valve |
| 2002 | Introduced Panther® HP 50:1 grease pumps | 2013 | Introduced CenterFlo air operated diaphragm pumps |
| 2003 | Introduced Tiger HP 5:1 pump | 2013 | Introduced Digital Register (DR) meter |
| 2004 | Introduced mobile cart based 55 g drum pump Packages | | |

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Pumps



Piston Pumps | LYNX Product Selection Matrix



	LYNX 1:1	LYNX 2:1
Bare Model	1110-010	1160-009
Line Length	up to 100' (30 m)*	up to 125' (38 m)*
Free Flow, gal/m @150 psi (10 bar) Air	10.6 gal/m (40 l/m)*	8.2 gal/m (31 l/m)*
Recommended Fluid Types	Petroleum Based Oils	Anti-freeze (Glycol)
	Synthetic Oils	Windshield Fluids
Recommended Applications	Portable Drum Transfer Tapper/ Oil Bar Short Distance Single Dispense Point	Short to Medium Pumping Distance Coolant and Windshield Wash
Reference Data		<i>See Pipe Sizing Recommendations pg. 74</i>
Catalog Pages	8	8

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



	LYNX 3:1	LYNX 5:1
Bare Model	1110-007	1110-011
Line Length	up to 125' (38 m)*	up to 150' (46 m)*
Free Flow, gal/m @150 psi (10 bar) Air	6.6 gal/m (25 l/m)*	5.3 gal/m (20 l/m)*
Recommended Fluids	Petroleum Based Oils	Petroleum Based Oils
	Synthetic Oils	Synthetic Oils
Recommended Applications	Single Point Dispense Small Tank Packages Low Volume Users	Portable Gear Oil Dispense Single Point Dispense for Longer Pipe Distances Tank Packages in Colder Climates
Reference Data		<i>See Pipe Sizing Recommendations pg. 74</i>
Catalog Pages	10	12

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

Piston Pumps | LYNX 1:1/ 2:1 Pump



The LYNX 1:1 and 2:1 double acting 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 stainless steel, 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.

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, 3120-086 is recommended, see page 169.

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

FEATURE

- 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 muffler – assures clean & quiet operation.
- Electroless nickel coated 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.

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 length pump with bung adapter

SPECIFICATIONS

Pump ratio	1:1 or 2:1
Operating air pressure range	45 -150 psi (3 -10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure and free flow	1:1 -10.6 gal/m (40 l/m)
	2:1 - 8.2 gal/m (30 l/m)
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 effective air motor diameter	1:1 - 1 3/8" (35 mm)
	2:1 - 1.65" (42 mm)
Wetted materials	1:1 - Steel, Brass, Aluminum, Buna-N™, and Polyurethane
	2:1 - Viton® and PTFE (Teflon®), Stainless steel

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	1:1 SB1102
	2:1 SB1105
Accessories pg.	26

Piston Pumps | LYNX 1:1 / 2:1 Packages



STATIONARY:

	1111-010 Pump & Hose (Stub)	1111-025 Pump & Spigot (Stub)	1111-009 Pump & Spigot (Drum)	1111-011 Pump & Hose (Drum)	1161-003* 2:1 SS Pump & Hose (Drum)
Bare Pump	1110-010	1110-010	1110-009	1110-009	1160-009
Bung Adapter	4411-021	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, Goose neck stem	--	4200-013	4200-013	--	--

*Package comes with plated steel fittings & hose ends



PORTABLE:

	1111-013* 16 gal Drum (Dolly)	1111-014* & ** 55 gal Drum (Cart)	1111-012* 55 gal Drum (Dolly)
Bare Pump	1110-010	1110-009	1110-009
Bung Adapter	4411-021	4411-021	4411-021
F/R Auto Drain 1/4" NPT(F)	3260-033	3260-033	3260-033
Fluid Hose 10' x 3/4"	8263-010	8263-010	8263-010
Handle Non-Metered w/Rigid Ext & Manual tip	3320-022	3320-022	3320-022
Suction Tube or Kit	4412-022	--	--
Dolly Base / Drum Cart	4310-003	4320-008	4310-004
Hose Reel	--	Optional**	--

* Drum Not Included

**Optional Hose Reel Kit for 55 gal Carts 833318-mounts Evolution, Classic, or Premium hose reel, sold separately

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



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

NOTE: Thermal expansion of the fluid in a distribution system can cause an increase in system pressure that can damage to components. Pressure relief valve, 3120-086 is recommended, see page 169.

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

FEATURES

- Double acting positive displacement pump – delivers fast, uniform, and 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 muffler – assures clean & quiet operation.
- Electroless nickel coated 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.

MODELS AVAILABLE

1110-007 Bare stub pump with bung adapter

SPECIFICATIONS

Pump ratio	3:1
Operating air pressure range	45 -150 psi (3 -10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure and free flow	6.6 gal/m (25 l/m)
Air inlet	1/4" NPT(F)
Pump outlet	3/4" NPT(F)
Pump inlet	3/4" NPT(F)
Pump effective air motor diameter	1 3/8" (35 mm)
Wetted materials	Buna-N™, Steel, Brass, Aluminum, and Polyurethane

SERVICE BULLETINS & ACCESSORIES

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STATIONARY:

	1111-015 Pump & Hose	1111-016 Pump & Wall Mount
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:

	1111-005* 16 gal Drum (Dolly)	1111-006* 16 gal Drum (Cart)	1111-007* 55 gal Drum (Dolly)	1111-008* 55 gal Drum (Cart)
Bare Pump	1110-007	1110-007	1110-007	1110-007
Bung Adapter	4411-022	4411-022	4411-022	4411-022
F/R Mini Auto Drain 1/4" NPT(F)	3260-033	3260-033	3260-033	3260-033
Fluid Hose 10' x 1/2"	8249-010	8249-010	8249-010	8249-010
Handle w/Flex Ext & Auto tip	3330-161	3330-161	3330-161	3330-161
Suction Tube or Kit	4412-023	4412-023	4412-024	4412-024
Dolly Base / Drum Cart	4310-003	4320-009	4310-004	4320-008
Hose Reel	--	--	--	Optional**

* Drum Not Included

** Optional Hose Reel Kit for 55 gal Carts 833318-mounts Evolution, Classic, or Premium hose reel, sold separately

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



The LYNX 5:1 ratio double acting 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.

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, 3120-086 is recommended, see page 169.

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

FEATURES

- Double acting positive displacement pump – delivers fast, uniform, and 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 muffler – assures clean & quiet operation.
- Electroless nickel coated 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.

MODELS AVAILABLE

1110-011 Bare stub pump with bung adapter

SPECIFICATIONS

Pump ratio	5:1
Operating air pressure range	45-150 psi (3-10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure and free flow	5.3 gal/m (20 l/m)
Air inlet	1/4" NPT(F)
Pump outlet	3/4" NPT(F)
Pump inlet	3/4" NPT(F)
Pump effective air motor diameter	1.65" (42 mm)
Wetted materials	Steel, Brass, Aluminum, Buna-N™ and Polyurethane

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1106
Accessories pg.	26



STATIONARY:

	1111-017 Pump & Hose	1111-018 Pump & Wall Mount
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 Bracket	--	4411-008
Bung Adapter for Suction Side	--	4411-011



PORTABLE:

	1111-019* 16 gal Drum (Dolly)	1111-022* 16 gal Drum (Cart)	1111-020* 55 gal Drum (Dolly)	1111-023* 55 gal Drum (Cart)
Bare Pump	1110-011	1110-011	1110-011	1110-011
Bung Adapter	4411-022	4411-022	4411-022	4411-022
F/R Mini Auto Drain 1/4" NPT(F)	3260-033	3260-033	3260-033	3260-033
Fluid Hose 10' x 1/2"	8249-010	8249-010	8249-010	8249-010
DR Handle w/Flex Extension	3330-161	3330-161	3330-161	3330-161
Suction Tube or Kit	4412-023	4412-023	4412-024	4412-024
Dolly Base / Drum Cart	4310-003	4320-009	4310-004	4320-008
Hose Reel	--	--	--	Optional**

* Drum Not Included

** Optional Hose Reel Kit for 55 gal Carts 833318-mounts Evolution, Classic, or Premium hose reel, sold separately

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

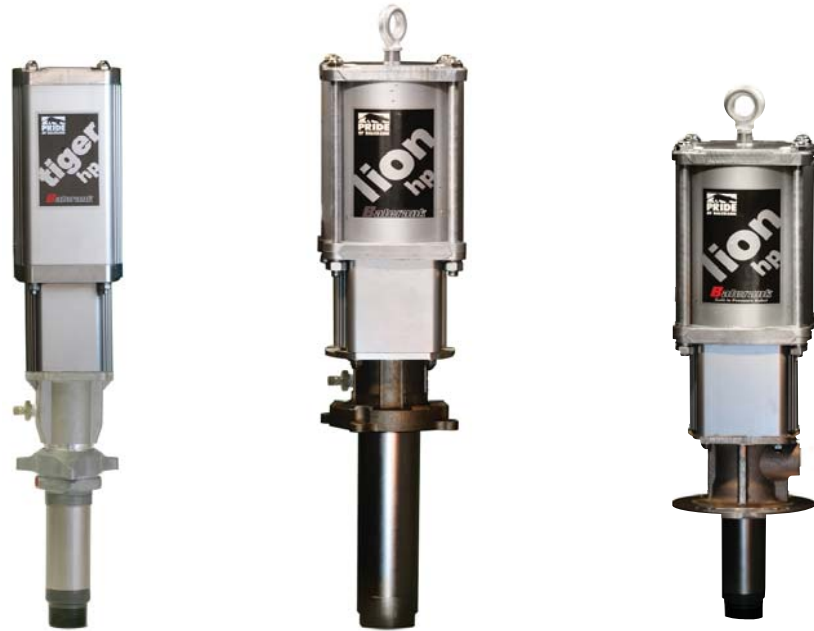
Piston Pumps | Pride Series Product Selection Matrix



	PANTHER® HP 3:1	PANTHER® HP 5:1
Bare Model	1130-015	1130-016
Line Length	250' (76 m)*	500' (152 m)*
Dispense Points	1-3*	1-3*
Free Flow, gal/m @100 psi (7 bar) Air	8 gal/m (30 l/m)*	6 gal/m (23 l/m)*
Recommended Fluid Types	Petroleum Based Oils	Petroleum Based Oils
	Synthetic Oils	Synthetic Oils
Recommended applications	Medium volume pump Small to medium dealerships Quick Lubes	Medium volume pump systems where longer pumping distances are required Small to medium dealerships Quick Lubes
Reference Data		<i>See Pipe Sizing Recommendations pg. 74</i>
Catalog Pages	16	18

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

Piston Pumps | Pride Series Product Selection Matrix



	TIGER® HP 6:1	Lion™ HP 5:1	Lion™ HP 10:1
Bare Model	1130-019	1130-027	1130-024
Line Length	500' (152 m)*	500' (152 m)*	750' (229 m)*
Dispense Points	2-4*	3-5*	3-4*
Free Flow, gal/m @100 psi (7 bar) Air	16 gal/m (61 l/m)*	27 gal/m (102 l/m)*	16.5 gal/m (62.5 l/m)*
Recommended Fluid	Petroleum Based Oils	Petroleum Based Oils	Petroleum Based Oils
	Synthetic Oils	Synthetic Oils	Synthetic Oils
	Anti-freeze (Glycol) (Stainless model)		
Recommended applications	Medium to large dealerships with multiple fluid dispense points Fleet Heavy Duty	Medium to large facilities requiring higher flow rates with maximum number of dispense points Truck Fleet Bus Facilities	Medium to large facilities requiring higher flow rates and longer pumping distances Truck Fleet Bus Facilities
Reference Data			<i>See Pipe Sizing Recommendations pg. 74</i>
Catalog Pages	20	22	24

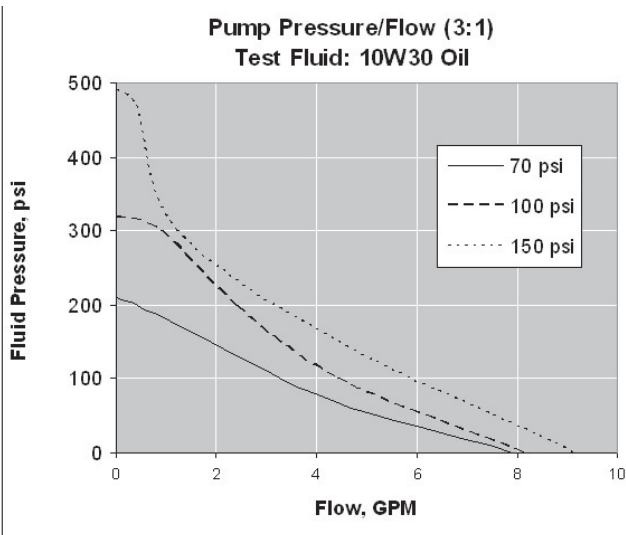
* Pump performance is predicated on viscosity (temperature), pumping distance, pipe diameter and dispense volume requirements. Contract Balcrank for system design assistance and specifications.



1130-020 Shown

Maximum simultaneous dispense points @ 1.5 gal/m (5.7 l/m) per dispense point. Note: pumping distance and pipe diameter will effect dispensing performance.

Contact Balcrank for specific system design performance specifications.



FEATURES:

- Pressure relief on Pride Series 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 - delivers consistent fluid flow with greater dispensing accuracy.

MODELS AVAILABLE

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

SPECIFICATIONS

Pump ratio	3:1
Operating air pressure range	30-150 psi (1-10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 100 psi (7 bar) air pressure and free flow:	8 gal/m (30 l/m)
Air consumption 100 psi (7 bar) & 3 gal/m (15 l/m)	19.70 SCFM
Max fluid stall pressure @150 psi (10 bar) air	490 psi (33.8 bar)
Cycles per gallon	34
Air inlet	1/4" NPT(F)
Fluid inlet:	1" NPT(F); 1 1/2" NPT(M)
Fluid outlet:	3/4" NPT(F)
Effective Air Piston Diameter	2 1/2" (63.5 mm)
Wetted materials	Carbon steel, Buna-N™ Stainless steel, Nickel plated steel, Nylon, Ultrathane®, Zinc Plated Steel, and Aluminum

SERVICE BULLETINS & ACCESSORIES

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STATIONARY/PORTABLE:

	1131-007	1131-009
Bare Pump	Wall Mount 1130-015	Pump & Hose 1130-015
Bung Adapter	4411-009N	4411-009N
Air Hose 5' x 3/8"	8132-005	8132-005
Fluid Hose 5' x 1/2"	8249-005	8249-005
Suction Tube or Kit	4412-015	--
Wall Mount Bracket	4411-008	--



PORTABLE GEAR OIL PACKAGES:

	1131-013*	1131-029*	1131-030*&**
	16 gal Portable (Dolly)	55 gal Portable (Dolly)	55 gal Portable (Cart)
Bare Pump	1130-015	1130-015	1130-015
Bung Adapter	4411-009N	4411-009N	4411-009N
Fluid Hose 10' x 1/2"	8249-010	8249-010	8249-010
DR Handle w/Flex Ext & Auto Tip	3330-161	3330-161	3330-161
Suction Tube or Kit	4412-006	4412-008	4412-008
F/R Mini Auto Drain 1/4" NPT(F)	--	3260-033	3260-033
Drum Cover	4420-005	--	--
Dolly Base/ Drum Cart	4310-001	4310-004	4320-008
Hose Reel	--	--	Optional **

* Drum Not Included

** Requires mounting kit 833318 and Evolution, Classic, or Premium Signature Series Hose Reel

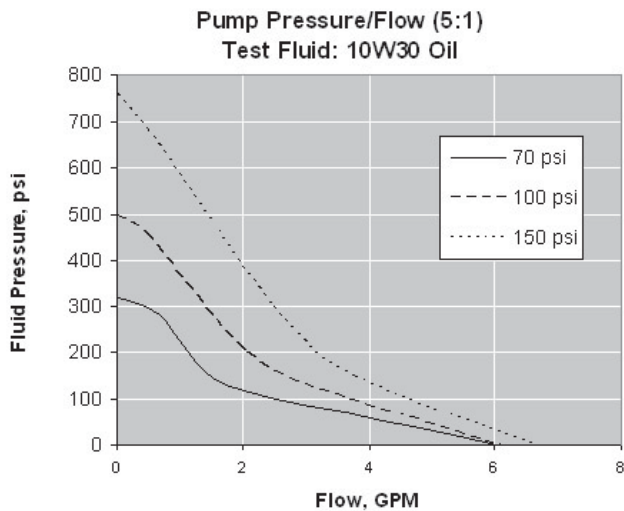
Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.



1130-021 Shown

Maximum simultaneous dispense points @ 1.5 gal/m (5.7 l/m) per dispense point. Note: pumping distance and pipe diameter will effect dispensing performance.

Contact Balcrank for specific system design performance specifications.



FEATURES:

- Pressure relief on Pride Series 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 - delivers consistent fluid flow with greater dispensing accuracy.

MODELS AVAILABLE

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

SPECIFICATIONS

Pump ratio	5:1
Operating air pressure range	30-150 psi (1-10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 100 psi (7 bar) air pressure and free flow:	6 gal/m (23 l/m)
Air consumption 100 psi (7 bar) & 3 gal/m (11 l/m)	24.80 SCFM
Max fluid stall pressure @150 psi (10 bar) air	760 psi (52.4 bar)
Cycles per gallon	57
Air inlet	1/4" NPT(F)
Fluid inlet:	1" NPT(F); 1 1/2" NPT(M)
Fluid outlet:	1/2" NPT(F)
Effective Air Piston Diameter:	2 1/2" (63.5 mm)
Wetted materials	Carbon steel, Buna-N™ Stainless steel, Nickel plated steel, Nylon, Ultrathane®, Zinc Plated Steel, and Aluminum

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1064
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STATIONARY/PORTABLE:

	1131-008 Wall Mount	1131-010 Pump & Hose
Bare Pump	1130-016	1130-016
Bung Adapter	4411-009N	4411-009N
Air Hose 5' x 3/8"	8132-005	8132-005
Fluid Hose 5' x 1/2"	8249-005	8249-005
Suction Tube or Kit	4412-015	--
Wall Mount Bracket	4411-008	--

PORTABLE GEAR OIL PACKAGES:



	1131-014* 16 gal Portable (Dolly)	1131-029* 55 gal Portable (Dolly)	1131-030*&** 55 gal Portable (Cart)
Bare Pump	1130-016	1130-015	1130-015
Bung Adapter	4411-009N	4411-009N	4411-009N
Fluid Hose 10' x 1/2"	8249-010	8249-010	8249-010
DR Handle w/Flex Ext & Auto Tip	3330-161	3330-161	3330-161
Suction Tube or Kit	4412-006	4412-008	4412-008
F/R Mini Auto Drain 1/4" NPT(F)	--	3260-033	3260-033
Drum Cover	4420-005	--	--
Dolly Base/ Drum Cart	4310-001	4310-004	4320-008
Hose Reel	--	--	Optional **

* Drum Not Included

** Requires mounting kit 833318 and Evolution, Classic, or Premium Signature Series Hose Reel

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

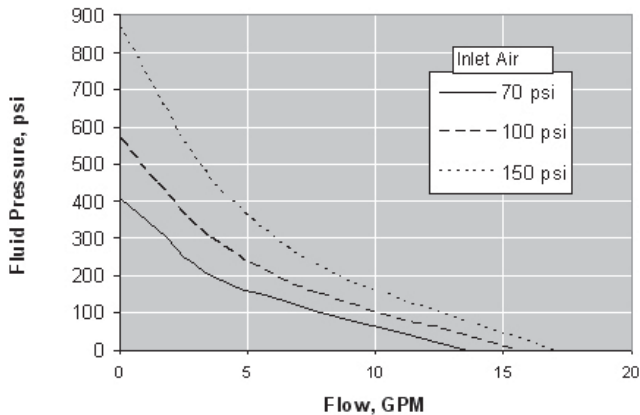


1130-026 Shown

Maximum simultaneous dispense points @ 1.5 gal/m (5.7 l/m) per dispense point. Note: pumping distance and pipe diameter will effect dispensing performance.

Contact Balcrank for specific system design performance specifications.

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



FEATURES:

- Pressure relief on Pride Series 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 - delivers consistent fluid flow with greater dispensing accuracy.

MODELS AVAILABLE

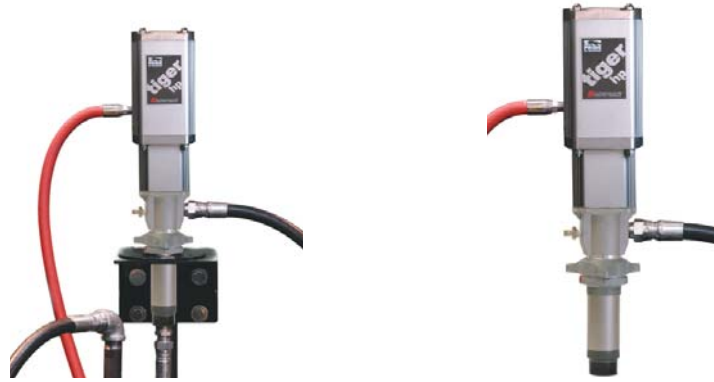
1130-019	Carbon Steel Stub
1130-025	Carbon Steel Stub, Flange Mount
1130-026	Carbon Steel Stub with Bung Adapter
1160-007	Stainless Steel Stub

SPECIFICATIONS

Pump ratio	6:1
Operating air pressure range	40-150 psi (3-10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 100 psi (7 bar) air pressure and free flow:	16 gal/m (61 l/m)
Air consumption 100 psi (7 bar) & 8 gal/m (30 l/m)	59 SCFM
Max fluid stall pressure @150 psi (10 bar) air	870 psi (60 bar)
Cycles per gallon	31
Air inlet	3/8" NPT(F)
Fluid inlet:	1" NPT(F); 1 1/2" NPT(M)
Fluid outlet:	3/4" NPT(F)
Effective Air Piston Diameter:	3.2" (81 mm)
Wetted materials 1130-019 1130-025 3310-026	Carbon steel, Buna-N™ Stainless steel, Nickel plated steel, Nylon, Ultrathane®, and Aluminum
1160-007	Stainless Steel and Viton®

SERVICE BULLETINS & ACCESSORIES

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STATIONARY:

	1131-054 Wall Mount	1131-005 Pump & Hose
Bare Pump	1130-019	1130-019
Bung Adapter	4411-009N	4411-009N
Air Hose 5' x 3/8"	8134-005	8134-005
Fluid Hose 5' x 3/4"	8264-005	8264-005
Suction Tube or Kit	4412-015	--
Wall Mount Bracket	4411-008	--

PACKAGE ACCESSORIES:

To view the complete Accessories selection see page 147

BUNG ADAPTERS:

4411-009N	Bung Adapter W/ Pressure Relief Port
4411-009QX	Bung Adapter W/ Pressure Relief Port 10 PK
4411-017N	Bung Adapter, Nickel Plated Stainless steel W/ Pressure Relief for 1160-007 (

CARTS & BASES:

4310-004	Dolly Base, 55 gal/400 lb heavy duty
4320-008	Drum Cart 55 gal/400 lb heavy duty

FILTER REGULATOR (F/R):

3260-035	F/R Auto Drain 3/8" NPT(F)
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LOW LEVEL CUT-OFF:

4411-010	Low Level Cut-off 1/4" NPT(F) with 1" NPT(M) adapter
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PUMP RUNAWAY CONTROL:

3241-001	Pump Runaway Control 1/2" NPT(F)
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SUCTION CHECK VALVES

4411-015	Ball Check Valve 1" NPT(F)
4411-019	Ball Check Valve 1" NPT(F), vented

SUCTION TUBES

4412-007	26 1/2" x 1" NPT(M) Stainless steel for 55 gal drum
4412-008	26 1/2" x 1" NPT(M) for 55 gal drum

WALL MOUNT BRACKET:

4411-008	Wall mount Bracket for use with Tiger
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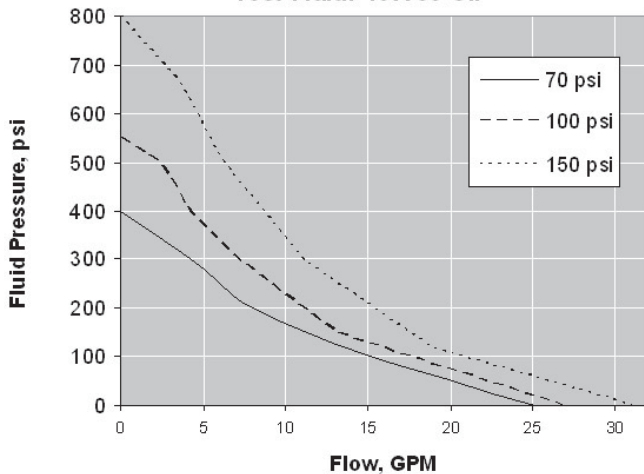
Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.



Maximum simultaneous dispense points @ 1.5 gal/m (5.7 l/m) per dispense point. Note: pumping distance and pipe diameter will effect dispensing performance.

Contact Balcrank for specific system design performance specifications.

Pump Pressure/Flow (5:1)
Test Fluid: 10W30 Oil



FEATURES:

- Pressure relief on Pride Series 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 - delivers consistent fluid flow with greater dispensing accuracy.

MODELS AVAILABLE

1130-027 Carbon Steel Stub

SPECIFICATIONS

Pump ratio	5:1
Operating air pressure range	30-150 psi (2-10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 150 psi (10 bar) air pressure and free flow	27 gal/m (102 l/m)
Air consumption 100 psi (7 bar) & 8 gal/m (30 l/m)	47 SCFM
Max fluid stall pressure @150 psi (10 bar) air	800 psi (60 bar)
Cycles per gallon	14
Air inlet	1/2" NPT(F)
Fluid inlet:	1 1/2" NPT(F)
Fluid outlet:	3/4" NPT(F)
Effective Air Piston Diameter:	4 1/4" (108 mm)
Wetted materials	Carbon steel, Buna-N™, Bronze, Nickel plated steel, and Polyurethane

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1073
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STATIONARY:

	1131-025 Wall Mount	1131-056 Pump & Hose
Bare Pump	1130-027	1130-027
Air Hose 5' x 1/2"	8144-005	8144-005
Fluid Hose 5' x 3/4"	8264-005	8264-005
Suction Tube or Kit	4412-016	--
Wall Mount Bracket	4411-001	--

PACKAGE ACCESSORIES:

To view the complete Accessories selection see page 147

BUNG ADAPTERS:

4411-007N	Bung Adapter W/ Pressure Relief Port, Steel for Lion 5:1
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CARTS & BASES:

4310-004	Dolly Base, 55 gal/400 lb heavy duty
4320-008	Drum Cart 55 gal/400 lb heavy duty

FILTER REGULATOR (F/R):

3260-036	F/R Auto Drain 1/2" NPT(F)
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LOW LEVEL CUT-OFF:

4411-005	Low Level Cut-off 3/4" NPT(F) with 1 1/2" NPT(M) adapter
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PUMP RUNAWAY CONTROL:

3241-001	Pump Runaway Control 1/2" NPT(F)
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SUCTION CHECK VALVES

4411-015	Ball Check Valve 1" NPT(F)
4411-019	Ball Check Valve 1" NPT(F), vented

SUCTION TUBES

4412-008	26 1/2" x 1" NPT(M) for 55 gal drum
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WALL MOUNT BRACKET:

4411-001	Wall mount Bracket for use with Lion 5:1
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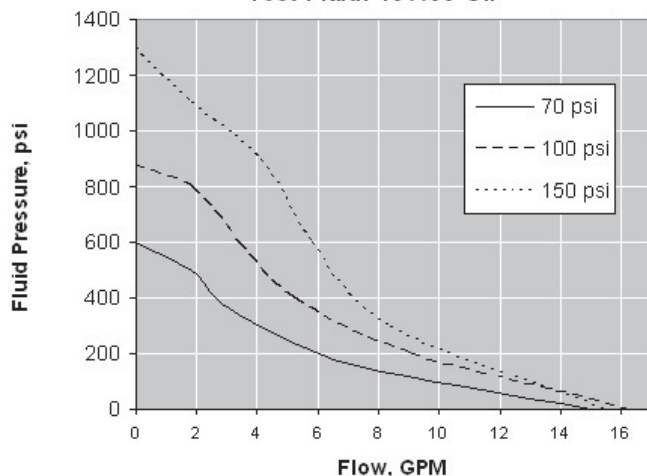
Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.



Maximum simultaneous dispense points @ 1.5 gal/m (5.7 l/m) per dispense point. Note: pumping distance and pipe diameter will effect dispensing performance.

Contact Balcrank for specific system design performance specifications.

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



FEATURES:

- Pressure relief on Pride Series 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 - delivers consistent fluid flow with greater dispensing accuracy.

MODELS AVAILABLE

1130-024 Carbon Steel Stub

SPECIFICATIONS

Pump ratio	10:1
Operating air pressure range	30-150 psi (2-10 bar)
Pump delivery with SAE 10W30 oil, 68° F (20° C), 100 psi (7 bar) air pressure and free flow:	16.5 gal/m (62 l/m)
Air consumption 100 psi (7 bar) & 8 gal/m (30 l/m)	46 SCFM
Max fluid stall pressure @150 psi (10 bar) air	1,300 psi (89.6 bar)
Cycles per gallon	28
Air inlet	1/2" NPT(F)
Fluid inlet:	1" NPT(F); 1 1/2" NPT(M)
Fluid outlet:	3/4" NPT(F)
Effective Air Piston Diameter:	4 1/4" (108 mm)
Wetted materials	Carbon steel, Buna-N™ Stainless steel, Nickel plated steel, Nylon, Ultrathane®, and Aluminum

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1073
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STATIONARY PACKAGE:

	1131-026 Wall Mount	1131-004 Pump & Hose
Bare Pump	1130-024	1130-024
Air Hose 5' x 1/2"	8144-005	8144-005
Fluid Hose 5' x 3/4"	8264-005	8264-005
Suction Tube or Kit	4412-015	--
Wall Mount Bracket	4411-001	--

PACKAGE ACCESSORIES:

To view the complete Accessories selection see page 144

CARTS & BASES:

4310-004	Dolly Base, 55 gal/400 lb heavy duty
4320-008	Drum Cart 55 gal/400 lb heavy duty

FILTER REGULATOR (F/R):

3260-036	F/R Auto Drain 1/2" NPT(F)
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LOW LEVEL CUT-OFF:

4411-010	Low Level Cut-off 3/4" NPT(F) with 1" NPT(M) adapter
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PUMP RUNAWAY CONTROL:

3241-001	Pump Runaway Control 1/2" NPT(F)
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SUCTION CHECK VALVES

4411-015	Ball Check Valve 1" NPT(F)
4411-019	Ball Check Valve 1" NPT(F), vented

SUCTION TUBES

4412-008	26 1/2" x 1" NPT(M) for 55 gal drum
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WALL MOUNT BRACKET:

4411-001	Wall mount Bracket for use with Lion 10:1
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Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.

Piston Pumps | Accessories

BUNG ADAPTERS

To view the complete Accessories selection see page 147



4411-007N



4411-009N



4411-009QX



4411-017N



4411-021
4411-022



4411-024



4411-012



4411-018N

4411-007N

Bung Adapter, Steel: Lion™ HP 5:1 W/ Pressure Relief Port

4411-009N

Bung Adapter, Aluminum: Panther® HP & Tiger W/ Pressure Relief Port

4411-009QX

Bung Adapter, Aluminum: Panther® HP & Tiger W/ Pressure Relief Port - 10 pieces

4411-017N

Bung Adapter, Nickel Plated Stainless Steel: Tiger W/ Pressure Relief Port

4411-021

Bung Adapter, Aluminum: LYNX: 1:1 & 2:1

4411-022

Bung Adapter, Aluminum: 3:1 & 5:1

4411-024

Bung Adapter, PVC: W/ Pressure Relief Port-2"

4411-012

Bung Adapter Kit: for use with OD-1" suction tube

4411-018N

Double Tap Bushing, Nickel Plated Stainless Steel: for use with Panther® HP W/ Pressure Relief

DOLLY BASES

4310-001
4310-003



4310-004



4310-001

Dolly Base, 120 lb/16 gal

4310-003

Dolly Base, 120 lb/16 gal wide track

4310-004

Dolly Base, 400 lb/55 gal heavy duty

DRUM CARTS

4320-009



4320-008



4320-009

Drum Cart 120 lb/16 gal

4320-008

Drum Cart 400 lb/55 gal heavy duty

See pg 154 for drum cart specifications

DRUM COVERS

4420-005



4420-007



4420-005

Drum Cover 120 lb/16 gal

4420-007

Drum Cover 400 lb/55 gal Off-set

EXTERNAL PRESSURE RELIEF

To view the complete Accessories selection see page 147



- 3120-085** Pressure Relief Kit, 1/2" NPT(M) 850 psi
- 3120-086** Pressure Relief Kit, 3/4" NPT(M) 850 psi
- 3120-087** Pressure Relief Kit, 3/4" NPT(M) 1400 psi

LOW LEVEL CUT-OFF *prevents air intake when fluid runs out*



- 4411-005** Air Eliminator - 3/4" NPT(F)/1 1/2" NPT(M) adapter
- 4411-010** Air Eliminator - 1/4" NPT(F)/1" NPT(M) adapter

PUMP RUNAWAY CONTROL



- 3241-001** Pump Runaway Control 1/2" NPT(F)
- 3241-002** Pump Runaway Control 1/4" NPT(F)

INLET CHECK VALVES & KIT



- 4411-015** Ball Check Valve 1" NPT(F)
- 4411-019** Ball Check Valve 1" NPT(F), vented
- 4411-014** Ball Check Valve 3/4" NPT(F)

SUCTION TUBES

	Item	Length x OD	Suction End x Pump End
	4412-023	20" x 3/4" NPT(M) for 16 gal drum	15° x NPT thread
	4412-006	20" x 1" NPT(M) for 16 gal drum	15° x NPT thread
	4412-022	20" x 1" NPT(M) for 16 gal drum	NPT thread x NPT thread
	4412-024	26.5" x 3/4" NPT(M) for 55 gal drum	15° x NPT thread
	4412-007	26.5" x 1" NPT(M) for 55 gal drum Stainless Steel	15° x NPT thread
	4412-008	26.5" x 1" NPT(M) for 55 gal drum	15° x NPT thread
	4412-028	33.25 x 3/4" NPT(M) for 275 gal Horizontal Obround Tank	NPT thread x NPT thread

WALL MOUNT BRACKETS



- 4411-001** Wall mount bracket for Lion™ HP
- 4411-008** Wall mount bracket for LYNX, Panther® HP, and Tiger



LYNX KITS

4410-058	Wall Mount	4410-057	1:1 Hose & Suction (16 gal)	4410-054	Hose Connecting Kit
8132-005	Air Hose 5' x 3/8"	8263-010	Fluid Hose 10' x 3/4"	8132-005	Air Hose 5' x 3/8"
8261-005	Fluid Hose 5' x 3/4"	4412-022	Suction Tube 20" x 1"	8261-005	Fluid Hose 5' x 3/4"
4412-027	Suction Tube 5' NPT(M) x 3/4" w/ 15° end	4410-059	3:1/5:1 Hose & Suction (16 gal)	3270-003	Air Coupler 1/4" NPT(F)
8171-006	Suction Hose 6' x 3/4"	8249-010	Fluid Hose 10' x 1/2"	3270-039	Air Nipple 1/4" NPT(M)
4411-011	Bung Adapter	4412-023	Suction Tube 20" x 3/4"		
4411-008	Wall Mount Bracket				
		4410-060	3:1/5:1 Hose & Suction (55 gal)		
		8249-010	Fluid Hose 10' x 1/2'		
		4412-024	Suction Tube 26.5' NPT(M) x 3/4" w/ 15° end		



PANTHER® HP KIT

4410-022	Wall Mount	4410-027	Hose & Suction Drum Mount	4410-055	Hose Connecting Kit
8132-005	Air Hose 5' x 3/8"	8132-005	Air Hose 5' x 3/8"	8132-005	Air Hose 5' x 3/8"
8249-005	Fluid Hose 5' x 1/2"	8249-005	Fluid Hose 5' x 1/2"	8249-005	Fluid Hose 5' x 1/2"
8181-006	Suction Hose 6' x 1"	3270-003	Air Coupler 1/4" NPT(F)	3270-003	Air Coupler 1/4" NPT(F)
3270-003	Air Coupler 1/4" NPT(F)	3270-039	Air Nipple 1/4" NPT(M)	3270-039	Air Nipple 1/4" NPT(M)
3270-039	Air Nipple 1/4" NPT(M)	4412-008	Suction Tube 26.5" NPT(M) x 3/4" w/ 15° end		
4412-015	Suction Tube 5' x 1"	4411-009N	Bung Adapter		
4411-009N	Bung Adapter				
4411-008	Wall Mount Bracket				
4411-010	Air Eliminator				
4411-006	Bung Adapter				



TIGER® HP KITS

4410-045	Wall Mount	4410-017	Hose & Suction Drum Mount	4410-056	Hose Connecting Kit
8134-005	Air Hose 5' x 3/8"	8134-005	Air Hose 5' x 3/8"	8134-005	Air Hose 5' x 3/8"
8246-005	Fluid Hose 5' x 3/4"	8246-005	Fluid Hose 5' x 3/4"	8264-005	Fluid Hose 5' x 3/4"
8181-006	Suction Hose 6' x 1"	3270-002	Air Coupler 3/8" NPT(F)	3270-002	Air Coupler 3/8" NPT(F)
3270-002	Air Coupler 3/8" NPT(F)	3270-001	Air Nipple 3/8" NPT(M)	3270-001	Air Nipple 3/8" NPT(F)
3270-001	Air Nipple 3/8" NPT(M)	4412-008	Suction Tube 26.5" NPT(M) x 3/4" w/ 15° end		
4412-015	Suction Tube 5' x 1"	4411-009N	Bung Adapter		
4411-009N	Bung Adapter				
4411-008	Wall Mount Bracket				
4411-010	Air Eliminator				
4411-006	Bung Adapter				



LION® HP KIT

4410-037	Wall Mount	4410-004	Wall Mount	4410-014	Hose Connecting Kit
8264-005	Air Hose 5' x 3/4"	8264-005	Air Hose 5' x 3/4"	8132-005	Air Hose 5' x 3/8"
8144-005	Fluid Hose 5' x 1/2"	8144-005	Fluid Hose 5' x 1/2"	8249-005	Fluid Hose 5' x 1/2"
8191-005	Suction Hose 5' x 1 1/2"	8191-005	Suction Hose 5' x 1 1/2"	3270-002	Air Coupler 3/8" NPT(F)
3270-002	Air Coupler 3/8" NPT(F)	3270-002	Air Coupler 3/8" NPT(F)	3270-001	Air Nipple 3/8" NPT(M)
3270-001	Air Nipple 3/8" NPT(M)	3270-001	Air Nipple 3/8" NPT(M)		
4412-016	Suction Tube 4' x 1 1/2"	4412-015	Suction Tube 4' x 1"		
4411-007N	Bung Adapter	4411-012	Bung Adapter		
4411-001	Wall Mount Bracket	4411-001	Wall Mount Bracket		



FEATURES

- Tank has 2" lockable fill cap and gauge
- Tailgate delivery and advance notification available
- Select packages come fully assembled with everything you need for immediate use.

Package Includes:

- UL 142 Tanks (Single and Double Wall)*
- DR Handle w/Flex Ext & Auto Tip
- Choice of:
 - LYNX or Panther 3:1 Pump
 - 50' x 1/2" ID Classic or Evolution Hose Reel

* Check local codes for venting and installation equipment.

WORKBENCH TANK PACKAGES

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.

Size	Package Includes	Model Number
165 gal 33H x 33W x 36L Single Wall Construction <i>(Ships Fully Assembled)</i>	Evolution Hose Reel & LYNX 3:1 Pump	1134-003
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-001 (L)
Double Wall Construction <i>(Ships Fully Assembled)</i>	Evolution Hose Reel & LYNX 3:1 Pump	1134-004
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-002
250 gal 30H x 32W x 60L Single Wall Construction <i>(Ships Fully Assembled)</i>	Evolution Hose Reel & LYNX 3:1 Pump	1134-007 (L)
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-005 (L)
Double Wall Construction <i>(Ships Fully Assembled)</i>	Evolution Hose Reel & LYNX 3:1 Pump	1134-008
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-006
280 gal 33H x 33W x 60L Single Wall Construction <i>(Ships Fully Assembled)</i>	Evolution Hose Reel & LYNX 3:1 Pump	1134-015
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-013
Double Wall Construction <i>(Ships Fully Assembled)</i>	Evolution Hose Reel & LYNX 3:1 Pump	1134-016
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-014

(L) - Available with liter dispensing meter. Order by adding an "L" after the model number i.e. 1134-007 (L).



VERTICAL OBROUND TANK PACKAGES

Choose vertical Obround tanks when floor space is limited. Vertical Obround tanks have the smallest footprint per gallon of oil. Assembly required for 330 gallon vertical packages: equipment ships separately.

Size	Package Includes	Model Number
275 gal 60H x 44W x 27D Single Wall Construction (Ships Fully Assembled)	Evolution Hose Reel & LYNX 3:1 Pump	1134-019
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-017
Double Wall Construction (Ships Fully Assembled)	Evolution Hose Reel & LYNX 3:1 Pump	1134-020
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-018
330 gal 72H x 44W x 27D Single Wall Construction (Assembly Required)	Evolution Hose Reel & LYNX 3:1 Pump	1134-027
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-025
Double Wall Construction (Assembly Required)	Evolution Hose Reel & LYNX 3:1 Pump	1134-028
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-026



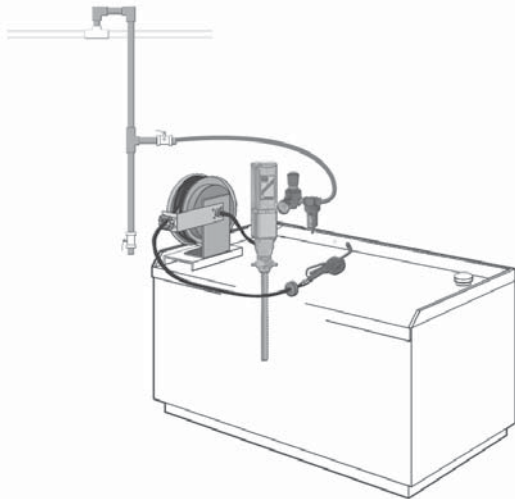
Photo courtesy of: Fernando Vecchio, Balcrank Northeast District Manager, Distributor: Haldeman Equipment Company, Lancaster Toyota, Lancaster, PA

HORIZONTAL OBROUND TANK PACKAGES

Horizontal Obround tanks have a small overall footprint with a narrow width dimension of 27". The fill cap and hose reel are located a convenient 44" from the floor.



Size	Package Includes	Model Number
275 gal 44H x 27W x 60L Single Wall Construction (Ships Fully Assembled)	Evolution Hose Reel & LYNX 3:1 Pump	1134-030
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-009
Double Wall Construction (Ships Fully Assembled)	Evolution Hose Reel & LYNX 3:1 Pump	1134-012
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-010
330 gal 44H x 27W x 72L Single Wall Construction (Ships Fully Assembled)	Evolution Hose Reel & LYNX 3:1 Pump	1134-023
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-021
Double Wall Construction (Ships Fully Assembled)	Evolution Hose Reel & LYNX 3:1 Pump	1134-024
	Classic Hose Reel & Panther® HP 3:1 Pump	1134-022



PACKAGE INCLUDES

- DR Handle w/Flex Ext & Auto Tip
- Choice of:
 - LYNX 3:1, Panther® HP 3:1, or Panther® HP 5:1 pump with bung adapter
 - 50' x 1/2" ID Classic or Evolution Hose Reel or 30' x 1/2" ID Classic or Evolution Hose Reel
- Inlet hose for hose reel
- Filter Regulator

Sold Separately

- Lockable fill cap and gauge
- Suction tube

TANKLESS PACKAGE 30' HOSE

	1132-012 LYNX 3:1	1132-013 LYNX 3:1	1132-006 Panther 3:1	1132-007 Panther 5:1
Bare Pump w/ Bung Adapter	1110-007	1110-007	1130-020	1130-021
Classic Hose Reel 30' x 1/2" Oil	--	--	2120-011	2120-011
Evolution Hose Reel 30' x 1/2" Oil	2140-013	2140-013	--	--
DR Handle w/Flex Ext & Auto Tip	3330-161	3330-161	3330-161	3330-161
Hose Assembly 5' x 3/8"	8132-005	8132-005	8132-005	8132-005
F/R Auto Drain 1/4" NPT(F)-Poly Bowl	3260-060	3260-060	--	--
F/R Auto Drain 1/4" NPT(F)-Zinc Bowl	--	--	3260-033	3260-033

TANKLESS PACKAGE 50' HOSE

	1132-014 LYNX 3:1	1132-015 LYNX 3:1	1132-009 Panther 3:1	1132-010 Panther 5:1
Bare Pump w/ Bung Adapter	1110-007	1110-007	1130-020	1130-021
Classic Hose Reel 50' x 1/2" Oil	--	--	2120-013	2120-013
Evolution Hose Reel 50' x 1/2" Oil	2140-014	2140-014	--	--
DR Handle w/Flex Ext & Auto Tip	3330-161	3330-161	3330-161	3330-161
Hose Assembly 5' x 3/8"	8132-005	8132-005	8132-005	8132-005
F/R Auto Drain 1/4" NPT(F)-Poly Bowl	3260-060	3260-060	--	--
F/R Auto Drain 1/4" NPT(F)-Zinc Bowl	--	--	3260-033	3260-033

BUNG ADAPTERS



4411-007N



4411-017N
4411-009N



4411-018N

- 4411-009N** Alum. Panther® HP, Tiger W/ Pressure Relief
- 4411-009QX** Alum. Panther® HP, Tiger W/ Pressure Relief 10 pk
- 4411-018N** Double Tap Bushing for Panther W/ Pressure Relief
- 4411-021** Bung Adapter LYNX: 1:1, 2:1
- 4411-022** Bung Adapter LYNX: 3:1, 5:1

SUCTION TUBES



- 4412-028** 33.25 x 3/4" NPT(M) or 275 gal Horizontal Obround Tank for LYNX packages

TANK LEVEL GAUGE

Display dial shows the remaining fluid depth in inches as the attached float level changes. Mount on tank bung fitting. (For stationary tanks only. Not recommended for mobile lubbers.)



- 4520-014** Black Knight Gauge

TANK SADDLE

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



- 4420-006** Tank Saddle

VENTS



832778



822483

- 822483** Tank Vent Cap 2" NPT(F)

- 832706** Emergency vent 4"



4411-024

- 832778** Vented fill cap 2"



- 4411-024** Bung Adapter, PVC: W/ 2" Pressure Relief Port

4520-007

- 4520-007** Vent Cap Mounting Kit



(for attaching 4520-006 to vent outlet of obround tanks)



FEATURES:

The Lynx Mobile Pump Outfit is a completely mobile unit. Install the optional hose reel for a complete mobile package.

- Tank holds up to 24 gal of lubricant

Includes:

- 24 gallon self-contained tank
- LYNX 3:1 or 5:1 Piston Pump
- Fluid Hose 10' x 1/2"
- DR Handle w/Flex Ext & Auto Tip
- Air filter-regulator
- Fill cap and sight gauge
- Suction tube
- Heavy duty cart (for optional hose reel)

Recommended options

- Evolution, Classic, or Premium hose reel sold separately.
- Hose Reel additions require mounting kit 833319

SERVICE BULLETINS

Service Bulletin	SB1107
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MODELS AVAILABLE

1111-021	Lynx 3:1 Mobile Pump Outfit
1111-024	Lynx 5:1 Mobile Pump Outfit
1131-031	Panther 3:1 Mobile Pump Outfit

FEATURES:

The Panther Mobile Pump Outfit is a completely mobile unit. Install the optional hose reel for a complete mobile package.

- Tank holds up to 24 gal of lubricant

Includes:

- 23 gallon self-contained tank
- Panther 3:1 Piston Pump
- Fill cap and sight gauge
- Fluid Hose 10' x 1/2"
- DR Handle w/Flex Ext & Auto Tip
- Air filter-regulator
- Suction tube
- Heavy duty cart

Recommended options

- Evolution, Classic, or Premium hose reel sold separately.
- Hose Reel additions require mounting kit 833319



TANK SPECIFICATIONS

Tank Size	24 gal (91 L)
Fluid Capacity	23 gal (87 L)
Operating air pressure range	40-125 psi (3.4-7 bar)
Flow Rate	2 gal/m (7 l/m)
Wetted materials	Steel, Buna-N™, Zinc Plated Steel, Polypropylene, PVC, and Brass

SERVICE BULLETINS

Service Bulletin	SB1057
Accessories pg.	147



FEATURES:

- Completely portable, operates independent of air supply
- Tank holds up to 16 gallon of lubricant
- Fluid hose 6' x 1/2"
- Fill cap and sight gauge
- Heavy duty wheels and caster

Recommended options

- 3260-038 F/R Auto Drain 1/4" NPT(F)

MODELS AVAILABLE

- 1200-002** Lube Caddy Metered
DR Series Flex Memory, 1/4 turn manual for OIL
- 1200-003** Lube Caddy Non-Metered
Handle Flex Memory, 1/4 turn manual for OIL
- 1200-001** Lube Caddy Non-Metered
Handle Flex Memory, 1/4 turn manual for ATF

SPECIFICATIONS

Tank Size	20 gal (76 L)
Fluid Capacity	16 gal (61 L)
Operating air pressure range	50-100 psi (3.4-7 bar)
Pressure Relief Valve setting	125 psi (8.6 bar)
Estimated dispense time for first 8 gal at 100 psi (7 bar)	4 minutes
Estimated dispense time for 13 gal. from "full level" to "refill level" at 100 psi (7 bar)	9 minutes
Air inlet Port	Standard Tire Valve
Wetted materials	Steel, Buna-N™, Zinc Plated Steel, and Polypropylene

The Lube Caddy™ pressurized dispenser is a mobile fluid dispenser for light viscosity lubricants. Ideal for remote service in the field, on the job site or anywhere an air supply is not available.

This dispenser has a large 16 gallon capacity tank which means less time will be spent stopping to refill the tank. Its sight tube and large 2" bung port insure easy filling. Its large rubber wheels and wide handlebar insure easy maneuverability. It can be used with a non-metered control handle or a metered control handle for accurate dispensing.

The dispenser is equipped with a factory set inlet air safety relief valve and a standard tire valve for easy air filling.

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1052
Accessories pg.	147

Piston Pumps-Grease | Product Selection Matrix



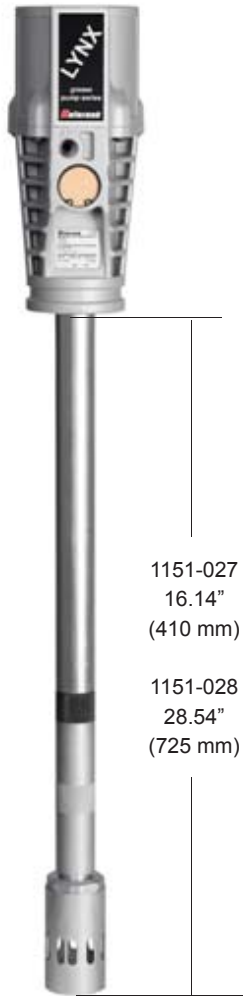
	LYNX 55:1 GREASE 25-35 lb	LYNX 55:1 GREASE 120 lb
Bare Models unavailable - packages only	1151-027	1151-028
	Available in packages only	Available in packages only
Line Length	10' * & **	10' * & **
	**High pressure, low volume portable grease. Not recommended for piped overhead systems.	
Dispense Points	1	1
Free Flow, lb/m @ 100 psi (7 bar) Air	1.2 lb/m (.54 kg/m)	1.2 lb/m (.54 kg/m)
Recommended Fluid Types	NLGI #2 Grease	NLGI #2 Grease
Recommended Applications	Portable Grease Fitting Application Tractors Light Equipment Small Truck Service	Portable Grease Fitting Application Tractors Light Equipment Small Truck Service
Reference Data	<i>See Pipe Sizing Recommendations pg. 74</i>	
Catalog Pages	38	38

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



	Panther® HP 50:1	Lion™ HP 50:1
Bare Model	1150-010	1150-015
Line Length	100**	300**
Dispense Points	1-2*	4*
Free Flow, lb/min. @ 100 psi (7 bar) Air	2 lb/m (.91 kg/m)	6 lb/m (.91 kg/m)
Recommended Fluid Types	NLGI #2 Grease	NLGI #2 Grease
Recommended applications	Low to Medium Volume Grease Fitting Fifth Wheel Applications Annual Usage to 5,000 lbs.	Medium to higher volume grease fitting Fifth wheel Heavy Equipment Service Annual usage to 20,000 lbs.
Reference Data	<i>See Pipe Sizing Recommendations pg. 74</i>	
Catalog Pages	40	42

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



1151-027
16.14"
(410 mm)

1151-028
28.54"
(725 mm)

FEATURES:

- Design provides even distribution on each stroke allowing for long seal life.
- Double acting pump design pumps product on both the up and down stroke, providing smooth and reliable flow and pressure.
- Positive pump priming with hardened foot valve minimizes pump damage due to contaminants. Corrosion proof air motor design tolerates moisture in compressed air.
- On-demand operation adjusts speed to match system flow and pressure requirements. When the dispense valve is closed the pump stops.
- One toggle driven air valve mechanism for fast and accurate reversing action.
- Precision machined and hardened upper ball check to tolerate small impurities in the grease.
- Internal filter mesh for reliable pump operation.

MODELS AVAILABLE

- 1151-027** LYNX 55:1 Grease 25-35 lb
1151-028 LYNX 55:1 Grease 120 lb

Available in portable packages only.

High pressure, low volume portable grease dispensing for automotive and general industry use. *Not recommended for piped overhead systems.* Ideal for use with grease up to NLGI #2.

SPECIFICATIONS

Pump ratio	55:1
Operating air pressure range	40-140 psi (3-10 bar)
Pump delivery, 100 psi (7 bar) air pressure and free flow:	1.2 lb/M (.54 kg/M)
Air consumption 100 psi (7 bar) & 8 gal/m (30 l/m)	8.1 SCFM
Max fluid stall pressure @150 psi (10 bar) air	1,300 psi (90 bar)
Cycles per lb	67
Air inlet	1/4" NPT(F)
Fluid outlet:	1/4" NPT(F)
Effective Air Piston Diameter:	2 3/4" (70 mm)
Wetted materials	Steel, Zinc, Buna-N™, PTFE (Teflon®)

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1116
Accessories pg.	46



STATIONARY:

	1151-027* LYNX 55:1 Grease 25-35 lb Stationary	1151-028* LYNX 55:1 Grease 120 lb Portable
Bare Pump	832983	832984
Bung Adapter	4411-023	4411-023
Fluid Hose 10' x 3/8"	8331-010	8665-010
F/R Auto Drain 1/4" NPT(F)	3260-033	3260-033
Heavy Duty Grease Handle	3310-030	3310-030
Drum Cover	4420-010	4420-011
Follower Plate	4440-013	4440-014
Dolly	--	4310-003

*Drum and pail not included

PACKAGE ACCESSORIES:

To view the complete Accessories selection see page 147

BUNG ADAPTERS:

4411-023	Bung Adapter, LYNX 55:1
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DOLLY BASES:

4310-003	Dolly Base, 120 lb/16 gal heavy duty
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DRUM COVERS:

4420-010	Pail Cover, LYNX, 25-35 lb/ 5 gal
4420-011	Drum Cover LYNX, 120 lb/ 16 gal

FOLLOWER PLATES:

4440-013	Follower Plate LYNX, 25-35 lb/ 5 gal
4440-014	Follower Plate LYNX, 120 lb/ 16 gal

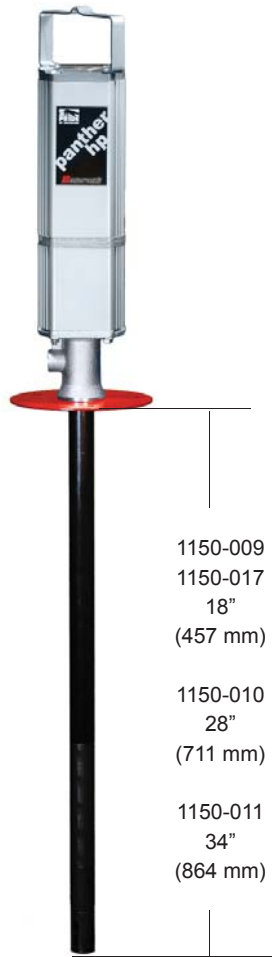
FILTER REGULATOR (F/R):

3260-033	F/R Auto Drain 1/4" NPT(F)
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GREASE HANDLES & Accessories

3310-030	Comfort Grip Grease Handle
3310-031	Comfort Grip Grease Handle with 18" Whip Hose and Z-swivel
3310-032	Comfort Grip Grease Handle with 36" Whip Hose and Z-swivel
5310-018	Z-Swivel 1/4" NPT(F) x 1/4" NPT(M)
5310-024	Grease Coupler/Nozzle
4420-012	Grease Gun Holder-LYNX Grease exclusively

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



1150-009
1150-017
18"
(457 mm)

1150-010
28"
(711 mm)

1150-011
34"
(864 mm)

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 - produces 50:1 output pressure and accepts a 30-mesh inlet screen to remove foreign contaminants from entering the system

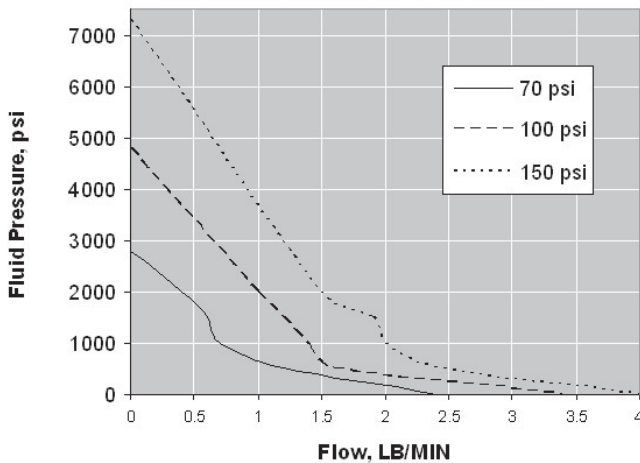
MODELS AVAILABLE

1150-009	Panther® HP Bare Pump - 25-35 lb
1150-010	Panther® HP Bare Pump - 120 lb
1150-011	Panther® HP Bare Pump - 400 lb
1150-017	Panther® HP Bare Pump - tote

SPECIFICATIONS

Pump ratio	50:1
Operating air pressure range	40-150 psi (2.8-10 bar)
Pump delivery, 100 psi (7 bar) air pressure and free flow:	3.4 lb/m (1.54 k/m)
Air consumption 100 psi (7 bar) & 8 gal/m (30 l/m)	14.5 SCFM
Max fluid stall pressure @150 psi (10 bar) air	7,500 psi (517 bar)
Cycles per lb	70
Air inlet	1/4" NPT(F)
Fluid outlet:	1/4" NPT(F)
Effective Air Piston Diameter:	2 1/2" (63.5 mm)
Wetted materials	Stainless Steel, Carbon Steel, Brass, Acetal, Buna-N™ and Ultrathane®

Pump Pressure/Flow (50:1)
Test Fluid: Multiplex EP-1 Grease



SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1063
Accessories pg.	46

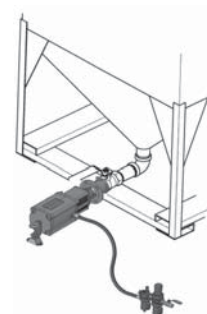
Piston Pumps-Grease | Panther® HP 50:1 Packages



STATIONARY/PORTABLE:

	1151-003 25-35 lb Portable	1151-004* 120 lb Stationary	1151-005* 120 lb Portable (Dolly)
Bare Pump	1150-009	1150-010	1150-010
Air Hose 5' X 3/8"	8132-005	8132-005	8132-005
Fluid Hose 10' X 1/2"	8331-010	8331-010	8331-010
Comfort Grip Grease Handle w/Swivel	3310-030	--	3310-030
Drum Cover	4420-008	4420-009	4420-009
Follower Plate	4440-007	4440-008	4440-008
Dolly Base, 120 lb/16 gal	--	--	4310-001

*Drum not included



STATIONARY/PORTABLE:

	1151-026* 120 lb Portable (Dolly)	1151-006* 400 lb Stationary	1151-020 Tote
Bare Pump	1150-010	1150-011	1150-017
Air Hose 5' X 3/8"	8132-005	8132-005	--
Fluid Hose 10' X 1/2"	8331-010	8331-010	--
Comfort Grip Grease Handle with 36" Whip Hose and Z-swivel	3310-032	--	--
Drum Cover	4420-009	4420-004	--
Follower Plate	4440-008	4440-009	--
Dolly Base, 120 lb/16 gal	4310-001	--	--
F/R Auto Drain 1/4" NPT(F)	--	--	3260-034

*Drum not included

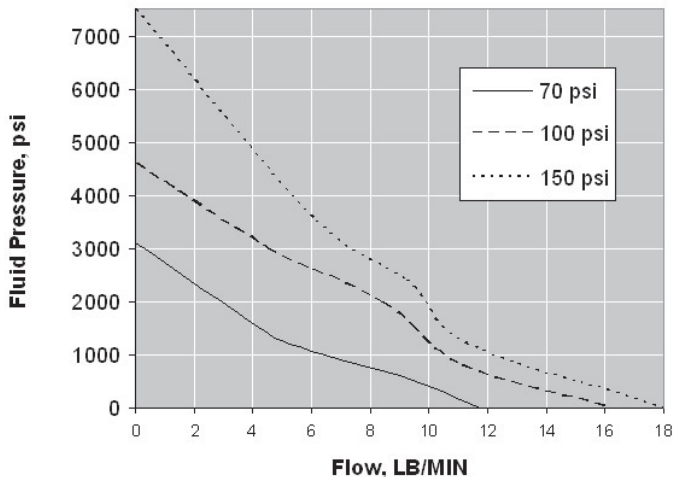
Note: Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line. Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.



1150-015
31.9"
(810 mm)

1150-018
21.4"
(544 mm)

Pump Pressure/Flow (50:1)
Test Fluid: Multiplex EP-1 Grease



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 - produces 50:1 output pressure and accepts a 30-mesh inlet screen to remove foreign contaminants from entering the system

MODELS AVAILABLE

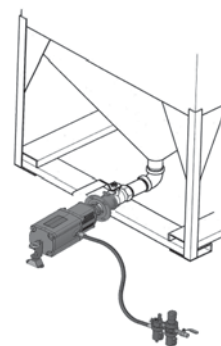
- 1150-015** Lion™ HP Bare Pump - 400 lb
1150-018 Lion™ HP Bare Pump - tote

SPECIFICATIONS

Pump ratio	50:1
Operating air pressure range	10-150 psi (1-10 bar)
Pump delivery, 100 psi (7 bar) air pressure and free flow:	16 lb/m (7.25 k/m)
Air consumption 100 psi (7 bar) & 8 gal/m (30 l/m)	72 SCFM
Max fluid stall pressure @150 psi (10 bar) air	7,750 psi (520 bar)
Cycles per lb	22
Air inlet	1/2" NPT(F)
Fluid outlet:	3/8" NPT(F)
Effective Air Piston Diameter:	4 1/4" (108 mm)
Wetted materials	Stainless Steel, Carbon Steel, Brass, and Ultrathane®

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1074
Accessories pg.	46



STATIONARY PACKAGE:

	1151-018* 400 lb Stationary	1151-022 Tote
Bare Pump	1150-015	1150-018
Air Hose 5' X 1/2"	8144-005	--
Fluid Hose 10' X 3/8"	8333-010	--
Drum Cover 400 lb/ 55 gal	4420-003	--
Follower Plate Lion™ HP, 400 lb/55 gal	4440-012	--
F/R Auto Drain 1/2" NPT(F)	--	3260-036

*Drum not included

PACKAGE ACCESSORIES

To view the complete Accessories selection see page 147



Single post lift for pumps having lift-eye attachments. Works with 120lb. and 400lb. drum sizes. Includes model 4451-001 valve for raising lowering the air lift. This air lift, utilizing a roller bearing design for ease of rotation when mounted, is used to rotate a pump between three drums. NOTE: Minimum of 8" above lift is clearance required

4450-001	Air Lift kit - Single post	Connection: 1/2" NPT(F/F)
4451-001	Hoist Valve for Air Lifts w/ dead man control	Wetted Materials: Bronze
DRUM COVERS:		
4420-003	Drum Cover 400 lb/ 55 gal	
FOLLOWER PLATES:		
4440-012	Follower Plate Lion™ HP, 400 lb/55 gal	
INLET SCREEN:		
4430-003	Inlet Screen, 30-Mesh, Lion™ HP 50:1	
PUMP RUNAWAY CONTROL:		
3241-001	Pump Runaway Control 1/2" NPT(F)	

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



FEATURES:

- Grease inductors eliminate contamination of the pump and inductor plate while changing grease drums by using a lift.
- Prevents air pockets from forming in the grease with a uniquely designed cone shaped inductor plate.
- Inductor mounted pump applies weight to allow for better grease flow to pump inlet
- Handles thicker #3 and #4 greases more easily than follower plate models

MODELS AVAILABLE

1151-009	Panther® HP Inductor
1151-011	Panther® 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

NOTE: Minimum of 8" above lift is clearance required

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	
1151-009	SB1066
4520-008	SB4046
Accessories pg.	46



FEATURES:

- Grease inductors eliminate contamination of the pump and inductor plate while changing grease drums by using a lift.
- Prevents air pockets from forming in the grease with a unique designed cone shaped inductor plate.
- Inductor mounted pump applies weight to allow for better grease flow to pump inlet
- Handles thicker #3 and #4 greases more easily than follower plate models

MODELS AVAILABLE

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

NOTE: Minimum of 8" above lift is clearance required

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	
1151-009	SB1066
4520-008	SB4046
Accessories pg.	46

Piston Pumps-Grease | Accessories

PUMP LIFT



Single post lift for pumps having lift-eye attachments. Works with 120lb. and 400lb. drum sizes. Includes model 4451-001 valve for raising lowering the air lift. This air lift, utilizing a roller bearing design for ease of rotation when mounted, is used to rotate a pump between three drums. NOTE: Minimum of 8" above lift is clearance required

Model #	Description	Component Specifications	
4450-001	Air Lift kit - Single post	Connection	1/2" NPT(F/F)
4451-001	Hoist Valve for Air Lifts	Material	Bronze air valve with "dead man" control

DOLLY BASE



4310-005



4310-001
4310-003



4310-004

4310-005	Dolly Base, 23-35 lb/5 gal
4310-001	Dolly Base, 120 lb/16 gal
4310-003	Dolly Base, 120 lb/16 gal Wide Track
4310-004	Dolly Base, 400 lb/55 gal Heavy Duty

DRUM CARTS



4320-009



4320-008

4320-009	Drum Cart, 120 lb/16 gal
4320-008	Drum Cart, 400 lb/55 gal heavy duty

See pg 154 for drum cart specifications

DRUM COVERS



4420-010



4420-005



4420-003

4420-008	Drum Cover, 25-35 lb for Panther® HP 50:1
4420-010	Drum Cover, 25-35 lb for LYNX 55:1
4420-009	Drum Cover, 120 lb for Panther® HP 50:1
4420-011	Drum Cover, 120 lb for LYNX 55:1
4420-003	Drum Cover, 400 lb for Lion™ HP 50:1
4420-004	Drum Cover, 400 lb for Panther® HP 50:1

MOBILE DRUM COVERS (Mobile Drum Covers require Hold Down Rods)



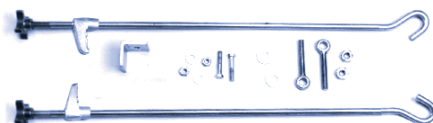
7120-013



7120-020

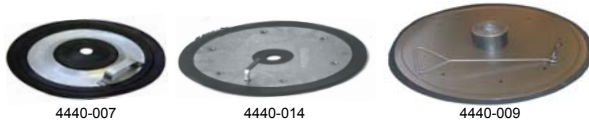
7120-012	Mobile Drum Cover, 400 lb for Panther® HP or Tiger 50:1-Offset hole-designed for Oil
7120-020	Mobile Drum Cover, 120 lb for Panther® HP 50:1-Center hole-designed for Grease
7120-023	Mobile Drum Cover, 400 lb for Panther® HP 50:1-Center hole-designed for Grease
7120-013	Mobile Drum Cover, 400 lb for Lion® HP 50:1-Center hole-designed for Grease

HOLD DOWN RODS



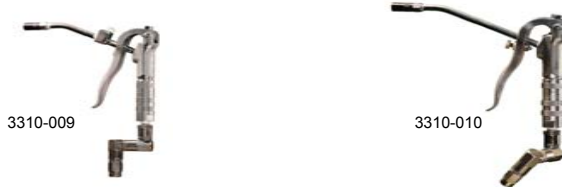
7120-005	Hold Down Rod, 400 lb Mobile Drum Cover
7120-004	Hold Down Rod, 120 lb Mobile Drum Cover

FOLLOWER PLATE *(to ensure proper pump function, Balcrank uses weighted follower plates to eliminate air pockets)*



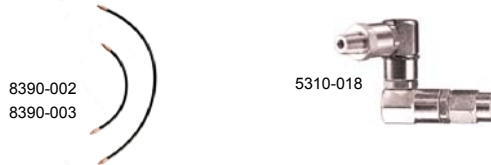
- 4440-007** Follower Plate, 25-35 lb for Panther® HP 50:1
- 4440-013** Follower Plate, 25-35 lb LYNX 55:1
- 4440-008** Follower Plate, 120 lb for Panther® HP 50:1
- 4440-014** Follower Plate, 120 lb LYNX 55:1
- 4440-009** Follower Plate, 400 lb for Panther® HP 50:1
- 4440-012** Follower Plate, 400 lb for Lion™ HP 50:1

GREASE HANDLES



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

GREASE HANDLE ACCESSORIES



- 8390-002** 18" Whip Hose HP Flexible Extension
- 8390-003** 36" Whip Hose HP Flexible Extension
- 5310-018** Z-Swivel 1/4" NPT(F) x 1/4" NPT(M)
- 4420-012** Grease Gun Holder (for LYNX Grease ONLY)

INLET SCREEN MESH *(Recommended when not using an air lift. Screen keeps dirt and debris from entering the system)*



- 4430-003** Inlet Screen, 30-Mesh, Lion™ HP 50:1
- 4430-004** Inlet Screen, Panther® HP Grease Pump

PUMP RUNAWAY CONTROL



- 3241-001** Pump Runaway Control 1/2" NPT(F)
- 3241-002** Pump Runaway Control 1/4" NPT(F)

PANTHER® HP HOSE KITS

4410-035	Connecting Hose Kit W/ Grease Handle includes:	4410-036	Connecting Hose Kit includes:
8132-005	Air Hose 5' x 3/8"	8132-005	Air Hose 5' x 3/8"
8331-010	Fluid Hose 10' x 3/8"	8331-010	Fluid Hose 10' x 3/8"
3270-003	Air Coupler 1/4" NPT(F)	3270-003	Air Coupler 1/4" NPT(F)
3270-004	Air Nipple 1/4" NPT(M)	3270-004	Air Nipple 1/4" NPT(M)
3310-030	Grease Handle Comfort Grip		

LION™ HP HOSE KITS

4410-030	400 lb Connecting Hose Kit includes:
8144-005	Air Hose 5' x 1/2"
8333-010	Fluid Hose 10' x 3/8"
3270-002	Air Coupler Swivel 3/8" FPT(F)
3270-001	Air Nipple 3/8" NPT(M)



1300-010



4310-001



1300-009

FEATURES

- Priming not necessary.
- Approximately six complete strokes will deliver one pound of lubricant.
- Packages are designed for 16 gal/120 lb containers
- All lube packages include:
 - Auto-lock nozzle 3/8" NPT(F)
 - Fluid Hose 6' x 1/2" NPT(F)
- Portable packages include:
 - Dolly Base, 120 lb/16 gal

MODELS AVAILABLE

Metered Lube

- 1300-011** Metered Lube
- 1300-018** Portable Metered Lube

Non Metered

- 1300-010** Non-Metered Lube
- 1300-017** Portable Non-Metered Gear Oil

Grease

- 1300-009** Non-Metered Grease for 25 to 35 lb pail

SPECIFICATIONS

Lube pressure may develop to	600 psi (41.4 bar)
Grease pressure may develop to	5,500 psi (379 bar)
Strokes per lb.	6
Suction tube diameter	1" (25.4 mm)
Wetted materials	Steel, Brass and Buna-N™

SERVICE BULLETINS & ACCESSORIES

Service Bulletin - Lube	SB1016
Service Bulletin - Grease	SB1018

MOBILE OIL PACKAGES:

	7120-018 Panther® HP 3:1	7120-017 Tiger® HP 6:1
Designed For Drum Size	400 lb /55 gal	400 lb /55 gal
Bare Pump	1130-017	1130-025
Air Hose 5'	8132-005	8144-005
Fluid Hose 10'	8262-010	8261-010
Suction Tube 26.5" X 1" NPT(M)	4412-008	4412-008
Drum Cover Offset	7120-012	7120-012
Hold Down Rod	7120-004	7120-004



MOBILE GREASE PACKAGES:

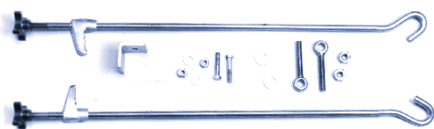
	7120-015 Panther® HP 50:1	7120-016 Panther® HP 50:1	7120-014 Lion™ HP 50:1
Designed For Drum Size	120 lb /16 gal	400 lb /55 gal	400 lb /55 gal
Bare Pump	1150-010	1150-011	1150-015
Air Hose 5'	8132-005	8132-005	8141-005
Fluid Hose 10'	8331-010	8331-010	8333-010
Drum Cover Center	7120-020	7120-023	7120-013
Hold Down Rod	7120-005	7120-004	7120-004



MOBILE DRUM COVERS:

	7120-012	7120-020	7120-023	7120-013
Pump Series	Panther® HP® or Tiger®	Panther® HP®	Panther® HP®	Lion™ HP™
Designed For Drum Size	400 lb /55 gal	120 lb /16 gal	400 lb /55 gal	400 lb /55 gal
Lubricant	Oil	Grease	Grease	Grease
Pump Opening	Offset	Center	Center	Center

HOLD DOWN ROD PACKAGE



7120-004	7120-005
400 lb/55 gal	120 lb/16 gal

FOUR-WAY REVERSING VALVES used to simplify transferring fluid



3230-014 1" NPT(F)

Pressure	200 psi (69 bar)
Material	Anodized Aluminum, Viton, and Stainless Steel

Pumps | Piston Pump Repair Kits

OIL *DISCONTINUED KITS - KITS AVAILABLE UNTIL YEAR NOTED I.E. (DISC-2015)

LYNX SERIES PUMPS

PUMP MODELS	REPAIR KIT #	DESCRIPTION
1110-009, 1110-010, 1110-007	833110	AIR VALVE KIT (GEN 2)
1110-007	833111	FLUID SEAL KIT (GEN 2)
1110-009 & 1110-010	833109	FLUID SEAL KIT (GEN 2)
1110-011 & 1160-009	833113	AIR VALVE KIT (GEN 2)
1110-011	833112	FLUID SEAL KIT (GEN 2)
1160-009	832953 (DISC -2015)*	FLUID SEAL KIT (GEN 1)
1110-009, 1110-010, 1110-007	832865 (DISC -2015)*	AIR VALVE KIT (GEN 1)
1110-007	832864 (DISC -2015)*	FLUID SEAL KIT (GEN 1)
1110-009 & 1110-010	832928 (DISC -2015)*	FLUID SEAL KIT (GEN 1)
1110-011 & 1160-009	832954 (DISC -2015)*	AIR VALVE KIT (GEN 1)
1110-011	832960 (DISC -2015)*	FLUID SEAL KIT (GEN 1)

PANTHER® HP SERIES PUMPS

PUMP MODELS	REPAIR KIT #	DESCRIPTION
PANTHER® HP SERIES PUMPS - ALL	900019	AIR MOTOR KIT - TRIP ROD ASSEMBLY
PANTHER® HP SERIES PUMPS - ALL	900031	AIR MOTOR KIT - SOFT PARTS ONLY
PANTHER® HP SERIES PUMPS - ALL	831614	AIR MOTOR ASSEMBLY KIT- INCLUDES PISTON
PANTHER® HP SERIES PUMPS - ALL	831613	AIR - COMPLETE PUMP REPLACEMENT ASSEMBLY
1130-015, 1130-017 & 1130-020	900020	FLUID SEAL KIT
1130-016, 1130-018 & 1130-021	900021	FLUID SEAL KIT
1130-015, 1130-017 & 1130-020	831612N	FLUID - COMPLETE PUMP REPLACEMENT ASSEMBLY
1130-016, 1130-018 & 1130-021	831615N	FLUID - COMPLETE PUMP REPLACEMENT ASSEMBLY

TIGER® HP SERIES PUMPS

PUMP MODELS	REPAIR KIT #	DESCRIPTION
TIGER HP SERIES PUMPS - ALL	900027	AIR MOTOR KIT - TRIP ROD ASSEMBLY
TIGER HP SERIES PUMPS - ALL	900028	AIR MOTOR KIT - SOFT PARTS ONLY
TIGER HP SERIES PUMPS - ALL	831671	AIR - COMPLETE ASSEMBLY
1130-019, 1130-025 & 1130-026	900020	FLUID SEAL KIT
1160-007	828070	FLUID SEAL KIT (STAINLESS STEEL)
1130-019, 1130-025 & 1130-026	831672N	FLUID - COMPLETE ASSEMBLY

LION™ HP SERIES PUMPS

PUMP MODELS	REPAIR KIT #	DESCRIPTION
LION™ HP SERIES PUMPS - ALL	900027	AIR MOTOR KIT - TRIP ROD ASSEMBLY
LION™ HP SERIES PUMPS - ALL	900028	AIR MOTOR KIT - SOFT PARTS ONLY
LION™ HP SERIES PUMPS - ALL	832101	AIR - COMPLETE ASSEMBLY
1130-024	900020	FLUID SEAL KIT
1130-027	900030	FLUID SEAL KIT
1130-024V	827065	QUAD-RING ONLY (VITON®)
1130-024	832106N	FLUID - COMPLETE ASSEMBLY
1130-027	831139N	FLUID - COMPLETE ASSEMBLY

BOBCAT™ SERIES PUMPS *DISCONTINUED KITS - KITS AVAILABLE UNTIL YEAR NOTED I.E. (DISC-2015)

PUMP MODELS	REPAIR KIT #	DESCRIPTION
BOBCAT SERIES PUMPS - ALL	827711 (DISC -2017)*	AIR VALVE & SEALS
1160-002, 1160-003, 1160-006 & 1131-002	828070	FLUID SEAL KIT (STAINLESS STEEL)
1130-005	827712 (DISC -2017)*	FLUID SEAL KIT
1110-001, 1110-003, 1111-002, 1111-003,	828069 (DISC -2017)*	FLUID SEAL KIT (ABOVE SERIAL #196000)
1110-005 & 1110-006	900020 (DISC -2017)*	FLUID SEAL KIT

JET POWER™ 4:1

PUMP MODELS	REPAIR KIT #	DESCRIPTION
JET 4:1 ALL	810071 (DISC -2018)*	AIR MOTOR ASSEMBLY

GREASE *DISCONTINUED KITS - KITS AVAILABLE UNTIL YEAR NOTED I.E. (DISC-2015)

LYNX 55:1

PUMP MODELS	REPAIR KIT #	DESCRIPTION
1151-027 & 1151-028	833038	AIR MOTOR KIT
1151-027 & 1151-028	833039	PACKING SEAL KIT
1151-027 & 1151-028	833040	FOOT VALVE KIT
1151-027 & 1151-028	833041	HP PISTON/CYLINDER & CHECK VALVE

PANTHER® HP 50:1

PUMP MODELS	REPAIR KIT #	DESCRIPTION
PANTHER® HP SERIES PUMPS - ALL	900019	AIR MOTOR KIT - TRIP ROD ASSEMBLY
PANTHER® HP SERIES PUMPS - ALL	831614	AIR MOTOR ASSEMBLY KIT- INCLUDES PISTON
PANTHER® HP SERIES PUMPS - ALL GREASE	831619	AIR - COMPLETE PUMP ASSEMBLY
PANTHER® HP SERIES PUMPS - ALL GREASE	900022	FLUID SEAL KIT
1150-009	831616	FLUID - COMPLETE PUMP ASSEMBLY
1150-010	831617	FLUID - COMPLETE PUMP ASSEMBLY
1150-011	831618	FLUID - COMPLETE PUMP ASSEMBLY
1150-017 (STUB PUMP)	832185	FLUID - COMPLETE PUMP ASSEMBLY

LION™ HP® 50:1

PUMP MODELS	REPAIR KIT #	DESCRIPTION
LION™ HP SERIES PUMPS - ALL	900027	AIR MOTOR KIT - TRIP ROD ASSEMBLY
LION™ HP SERIES PUMPS - ALL	900028	AIR MOTOR KIT - SOFT PARTS ONLY
LION™ HP SERIES PUMPS - ALL	832101	AIR - COMPLETE ASSEMBLY
LION™ HP SERIES PUMPS - ALL GREASE	900029	FLUID SEAL KIT
1150-015	832122	FLUID - COMPLETE PUMP ASSEMBLY
1150-018 (STUB PUMP)	832260	FLUID - COMPLETE PUMP ASSEMBLY

JET POWER™ 50:1

PUMP MODELS	REPAIR KIT #	DESCRIPTION
JET 50:1 - ALL	810071 (DISC-2018)*	AIR MOTOR ASSEMBLY
JET 50:1 1150-001, 1150-003, 1150-004, 1150-005, 7110-004, 7110-005, 7110-006, 7110-007, 7210-001, 7210-003, 7210-004, 754, 763, 764, 767, 870, 878, 2854, & 2874	816348 (DISC-2018)*	FLUID SEAL KIT



1120-029
Polypropylene

1120-023
Polypropylene

1120-025
Polypropylene/DEF

1120-027
Aluminum

	CF10	CF15	CF15	CF15
Maximum free flow	10.4 gal/m (39.4 l/m)	14 gal/m (53 l/m)	14 gal/m (53 l/m)	14 gal/m (53 l/m)
Delivery per stroke	.019 gal	.026 gal	.026 gal	.026 gal
Fluid inlet	1/2" NPT(F) & flange	1/2" NPT(F) & flange	1/2" BSPP(F) & flange	1/2" NPT(F) & flange
Fluid outlet	1/2" NPT(F) & flange	1/2" NPT(F) & flange	1/2" BSPP(F) & flange	1/2" NPT(F) & flange
Air inlet	3/8" NPSM(F)	3/8" NPSM(F)	3/8" NPSM(F)	3/8" NPSM(F)
Wetted parts	Polypropylene	Polypropylene	Polypropylene	Aluminum
Check balls	PTFE (Teflon®)	PTFE (Teflon®)	PTFE (Teflon®)	PTFE (Teflon®)
Diaphragms	Hytrel®	Hytrel®	Hytrel®	Hytrel®
Recommended Fluid Types	Anti-freeze (Glycol) and windshield wash solution	Anti-freeze (Glycol) and windshield wash solution	Diesel exhaust fluid	Light viscosity fluids synthetic, mineral oils, and used oil
Recommended applications	Fluid dispensing, transfer, and distribution systems	Fluid dispensing, transfer, evacuation, and distribution systems	Fluid dispensing, transfer, and distribution systems	Fluid dispensing, transfer, evacuation, and distribution systems
Reference Data	<i>See Pipe Sizing Recommendations pg. 74</i>			
Catalog Page	56	57	57	57



1120-028
Polypropylene/Mixing

1120-026
Polypropylene

1120-031
Polypropylene/DEF

1120-024
Aluminum

	CF15	CF30	CF30	CF30
Maximum free flow	14 gal/m (53 l/m)	28 gal/m (106 l/m)	28 gal/m (106 l/m)	28 gal/m (106 l/m)
Delivery per stroke	.026 gal	0.060 gal	0.060 gal	0.060 gal
Fluid inlet	2-3/8" NPT(F)	1" NPT(F) & flange	1" BSPP(F) & flange	1" NPT(F) & flange
Fluid outlet	1/2" NPT(F)	1" NPT(F) & flange	1" BSPP(F) & flange	1" NPT(F) & flange
Air inlet	3/8" NPSM(F)	3/8" NPSM(F)	3/8" NPSM(F)	3/8" NPSM(F)
Wetted parts	Polypropylene	Polypropylene	Polypropylene	Aluminum
Check balls	PTFE (Teflon®)	PTFE (Teflon®)	PTFE (Teflon®)	PTFE (Teflon®)
Diaphragms	Hytrel®	Hytrel®	Hytrel®	Hytrel®
Recommended Fluids Types	1:1 solutions of water, Anti-freeze (Glycol), and windshield wash	Anti-freeze (Glycol) and windshield wash solution	Diesel exhaust fluid	Light viscosity fluids synthetic, mineral oils, and used oil
Recommended applications	** Dual inlet pumps for 1:1 proportion mixing of fluids with similar viscosity	Fluid dispensing, transfer, evacuation, and distribution systems	Fluid dispensing, transfer, and distribution systems	Fluid dispensing, transfer, evacuation, and distribution systems
Reference Data			<i>See Pipe Sizing Recommendations pg. 74</i>	
Catalog Page	58	59	59	59

Note: Both fluids and their resulting solution must be compatible with the pump wetted materials

NEW CenterFlo Technology Diaphragm Pumps

New patented technology CenterFlo pumps feature reversed air/fluid design compared to conventional diaphragm pumps. Fluid path flows through the center of the pump with the air motor to the outside allowing improved suction and performance, less air consumption with less pulsation throughout the performance curve.

Diaphragm Pump Advantages:

- Discharge fluids up-to 28 gal/m at 100 psi (7 bar), to pump light to medium viscosity fluids.
- No rotating shafts or seals as found on electric pumps.
- Simple air operated design, no electricity needed. Works off shop air supply.
- Superior suction capability allowing for evacuation of used vehicle fluids such as used oil and Anti-freeze (Glycol).
- High volume dispense, evacuation and transfer of low to medium viscosity oils, Anti-freeze (Glycol), and windshield wash solutions.
- Pump can run dry without damage to the seals or wetted parts.
- On-demand operation, no switches or extra components required; pump starts and stops automatically on-demand.
- Ultimate adjustability using a simple air regulator adjustment to control flow and pressure requirements.
- No electrical safety concerns.

Significant Improvements:

- Superior performance against back pressure, nominal loss of flow and pressure capacity, under real application conditions is minimized.
- Significant dry suction lift, eliminate self-priming issues when pumping from drums or tall tanks.
- Dependable lube-free directional pivot air valve: starts-up every time. Tolerant of oil, moisture and dirt, non-icing, no air leaks when pump is stalled against head pressure of the system.
- Reduced air consumption per gallon pumped, saves energy, and avoids the need to use a larger compressor.
- Reduced pulsation gives greater measurement accuracy and less splashing during dispense.
- In-line servicing of air valve, diaphragms, and ball valves, without disconnecting from the fluid distribution line.
- Compact design allows this pump to fit in small spaces.

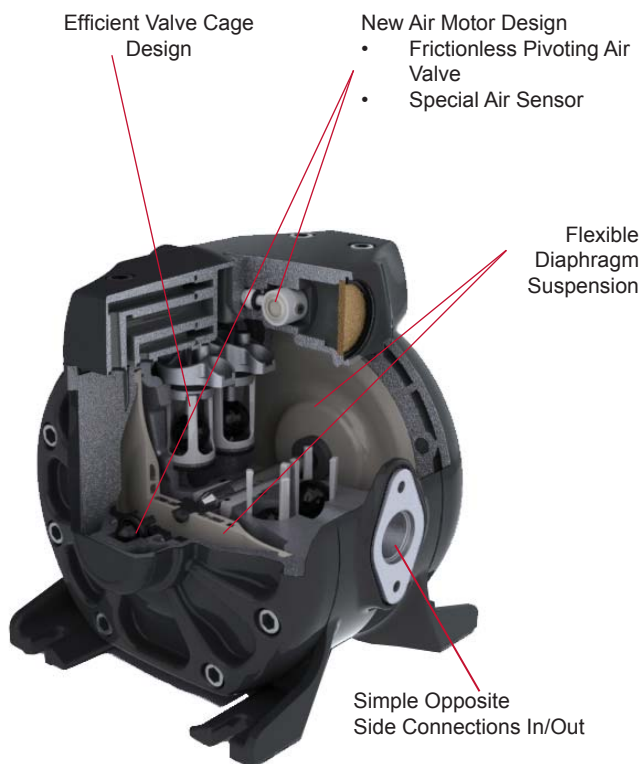
Advanced Technology

The air distribution system combines a central ball-valve fluid path technique with CenterFlo's two significant innovations: the Flexible Diaphragm Suspension (FDS) and the Frictionless Pivoting Air Valve (FPV).

The FDS uses short stroke diaphragms that reciprocate quickly, shortening the stroke length dramatically and reducing wear on the diaphragms. The friction in the traditional sliding air valves is too high to allow for the fast reversing action required by the FDS short stroke. Therefore, a new friction free and fast air valve, the FPV, was developed.

The FPV is critical to the reciprocating drive system and ensures reliability. The air distribution system (including the pivoting air valve module, the special air sensor valves, and the air channels) is self-cleaning and withstands non-lubricated, oily, dry, humid, and dirty compressed air.

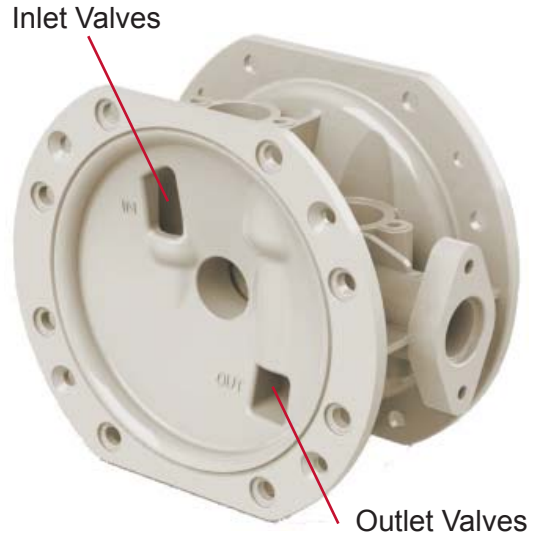
This new technology decreases the distance between the diaphragms and valves improving performance and decreasing pulsations commonly associated with diaphragm pumps. An FDS pump eliminates typical stress points and improves overall diaphragm life.



The CenterFlo Pump Body

The pump body is a single molded part that includes the flow path, the valve housings, and the wetted pump chambers. This single molded part alleviates the possibility of leaks. Thanks to CenterFlo technology, the fluid flows directly through the center of the pump body eliminating the need for manifolds.

In contrast, CenterFlo pumps are more compact, have less pressure drop within the pump, and eliminate the risk of leaks from seals. The wet chamber inlet and outlet valves are directly adjacent to the diaphragms, dramatically improving pump suction capacity, and pump performance against back pressure.



Flexible Diaphragm Suspension

The innovation behind the pump's smooth operation is the Flexible Diaphragm Suspension technology: FDS uses diaphragms that are not rigidly fixed to the shaft, reducing fatigue on the diaphragms, and extending their service life. In addition, shaft life is significantly increased, since the diaphragm only pushes the shaft but does not transmit non-axial loads. Minimizes pulsations and increases time between service intervals.



Pump Check Valves

CenterFlo pump check valves have three components: the ball, the valve-seat, and the valve-cage. Balls are guided by the valve-cage, which contributes to efficient operation preventing fluid flow from causing erratic ball movements, performance and pump faltering.



Installation & Maintenance Made Easy

Pump maintenance has never been so easy. In-line servicing of air valve, diaphragms, and ball valves, without disconnecting from the fluid distribution line. Fewer number of parts allow fast and reliable servicing by non-expert technicians. This makes replacing diaphragms, cleaning valves and other maintenance jobs easier and faster than in other diaphragm pumps.

Simple Reliability

CenterFlo pumps are extremely simple. Reduced number of internal components results in a reliable pump, with minimal maintenance required.



CF10 Pump Dimensions

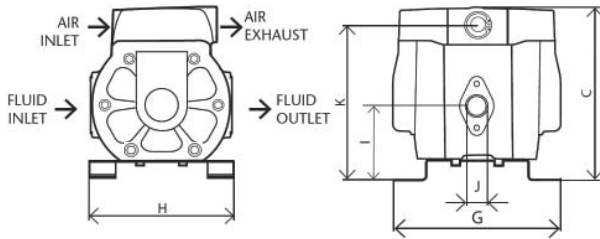
C: 6.38" (162 mm)	G: 5.51" (140 mm)	H: 5.32" (135 mm)
I: 2.75" (70 mm)	J: 1/2"(F)	K: 5.71" (145 mm)

MODELS AVAILABLE

1120-029 CF10 Polypropylene

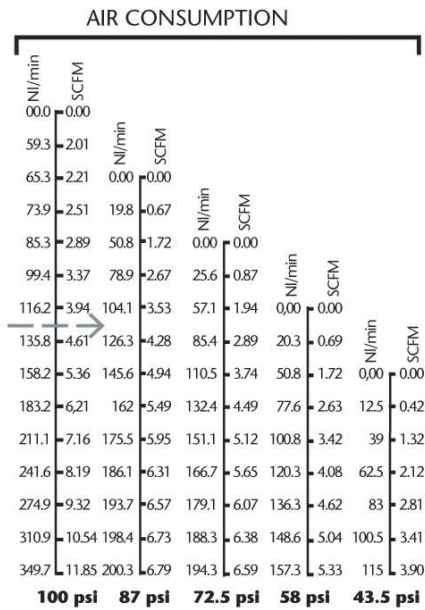
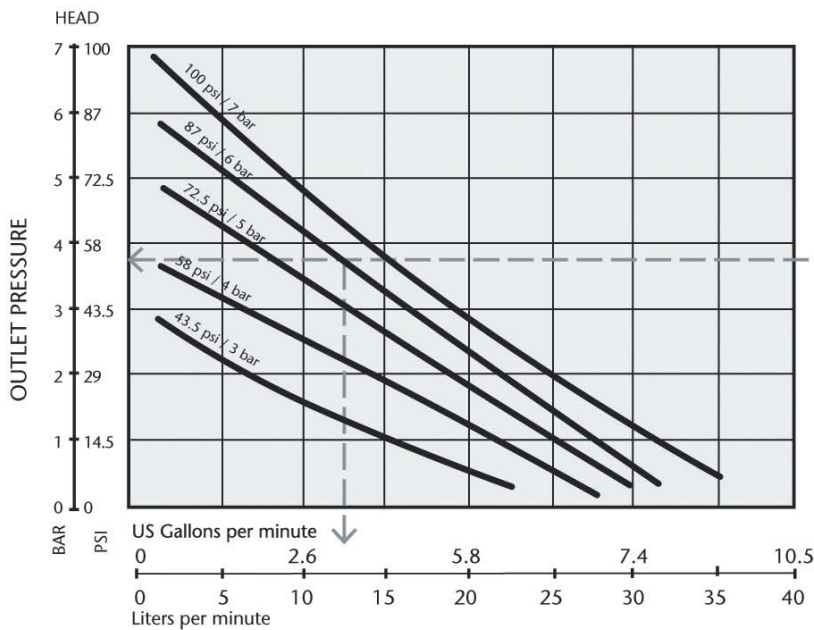
SPECIFICATIONS

Air inlet	3/8" NPSM(F)
Fluid inlet port	1/2" NPT(F) & flange
Fluid outlet port	1/2" NPT(F) & flange
Max. free flow	10.4 gal/m (38 l/m)
Air pressure range	45-100 psi (3-7 bar)
Solids in suspension	1/8" (3 mm)
Wetted Materials	Teflon®, Viton®, Polypropylene, Stainless Steel, Acetal, and Hytrel®
Recommended Fluids	Anti-freeze (Glycol) and windshield wash solution
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems



SERVICE BULLETINS & ACCESSORIES

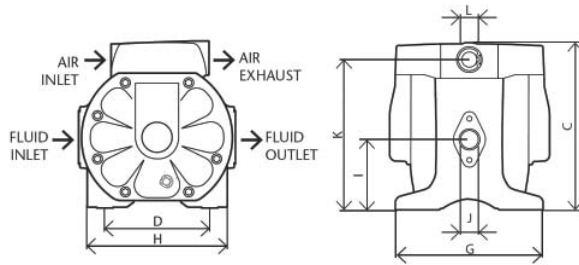
Service Bulletin	SB1121
Accessories pg.	69





CF15 Pump Dimensions

C: 6.57" (167 mm)	D: 4.13" (105 mm)	G: 5.75" (146 mm)	H: 5.51" (140 mm)
I: 2.75" (70 mm)	J: 1/2" (F)	K: 5.90" (150 mm)	L: 3/8" (F)



MODELS AVAILABLE

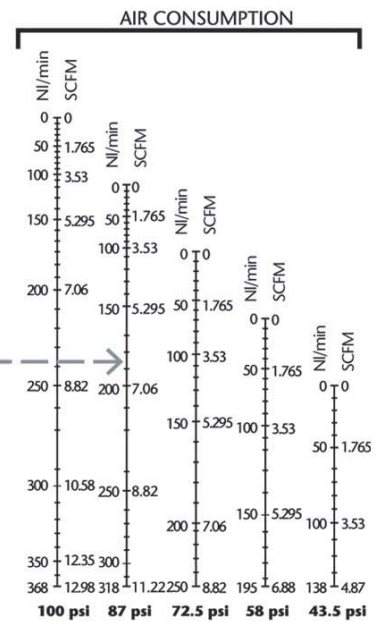
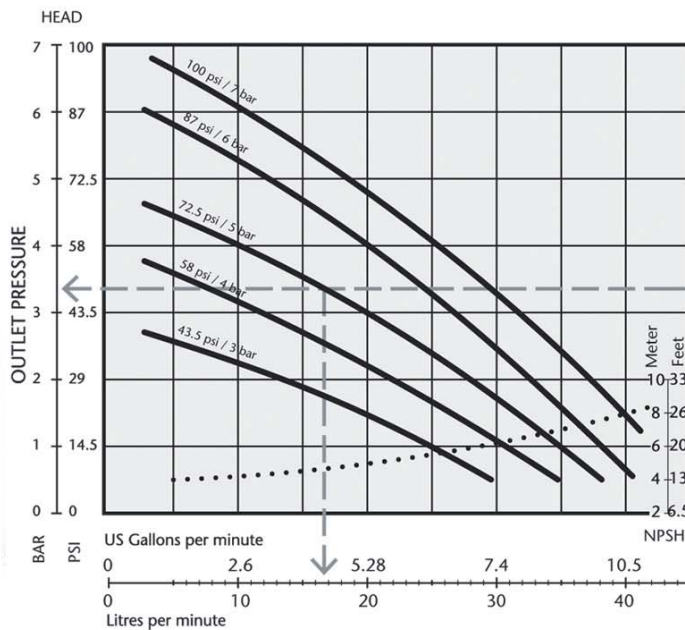
1120-023	CF15 Polypropylene
1120-027	CF15 Aluminum
1120-025	CF15 Polypropylene/BSPP

SPECIFICATIONS

Air inlet	3/8" NPSM(F)
Fluid inlet port	1/2" NPT(F) & flange / 1/2" BSPP(F) DEF
Fluid outlet port	1/2" NPT(F) & flange / 1/2" BSPP(F) DEF
Max. Free Flow	14 gal/m (50 l/m)
Air pressure range	45-100 psi (3-7 bar)
Solids in suspension	1/8" (3 mm)
Wetted Materials	PTFE (Teflon®), Viton®, Polypropylene, Stainless Steel, Hytrel®
1120-023	
1120-025	
1120-027	Stainless Steel, PTFE (Teflon®), Buna-N®, Hytrel®, Viton®, and Aluminum
Recommended fluids	Anti-freeze (Glycol) and windshield wash solution
1120-023	
1120-027	Light viscosity fluids, synthetic, mineral oils, and used oil
1120-025	Diesel exhaust fluid
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems

SERVICE BULLETINS & ACCESSORIES

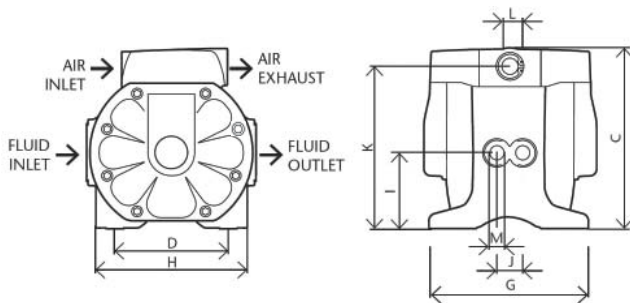
Service Bulletin	SB1122
Accessories pg.	69





CF15 Mixing Pump Dimensions

C: 6.57" (167 mm)	D: 4.13" (105 mm)	G: 5.75" (146 mm)
H: 5.51" (140 mm)	I: 2.75" (70 mm)	J: .94" (24 mm)
K: 5.90" (150 mm)	L: 3/8" (F)	M: 3/8" (F)



MODELS AVAILABLE

1120-028 CF15 Mixing

SPECIFICATIONS

Air inlet	3/8" NPSM(F)
Fluid inlet port	2 - 3/8" NPT(F)
Fluid outlet port	1/2" NPT(F) & flange
Max. free flow	14 gal/m (50 l/m)
Air pressure range	45-100 psi (3-7 bar)
Solids in suspension	1/8" (3 mm)
Wetted Materials	Teflon®, Viton®, Polypropylene, Stainless Steel, Acetal, and Hytrel®
Recommended Fluids	Anti-freeze (Glycol) and windshield wash solution

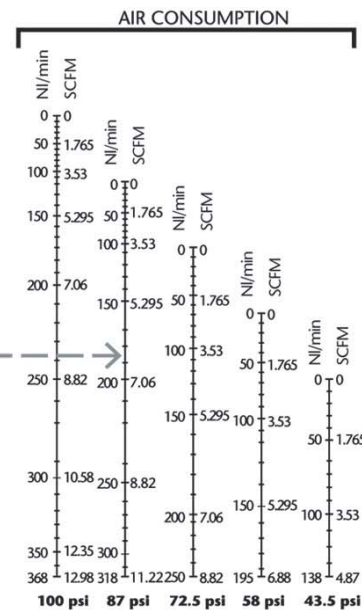
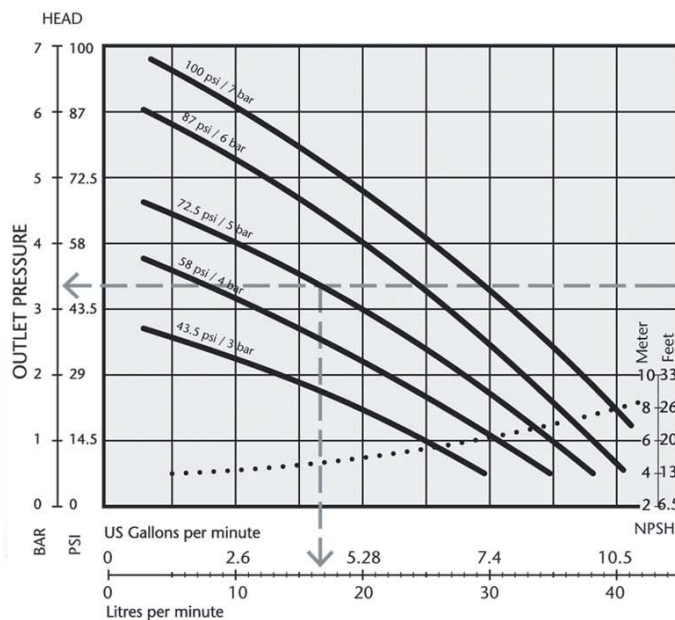
Recommended Applications

Dual inlet pumps for 1:1 proportion mixing of fluids with similar viscosity.

NOTE: both fluids and their resulting solution must be compatible with the pump wetted materials

SERVICE BULLETINS & ACCESSORIES

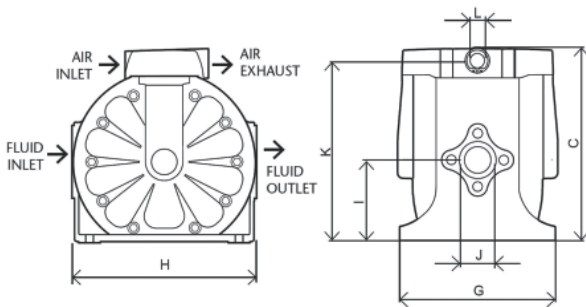
Service Bulletin	SB1123
Accessories pg.	69





CF30 Pump Dimensions

C: 8.94" (227 mm)	G: 7.24" (184 mm)	H: 8.27" (210 mm)
I: 3.72" (94.5 mm)	J: 1" (F)	K: 8.27" (210 mm)
L: 3/8" (F)		



MODELS AVAILABLE

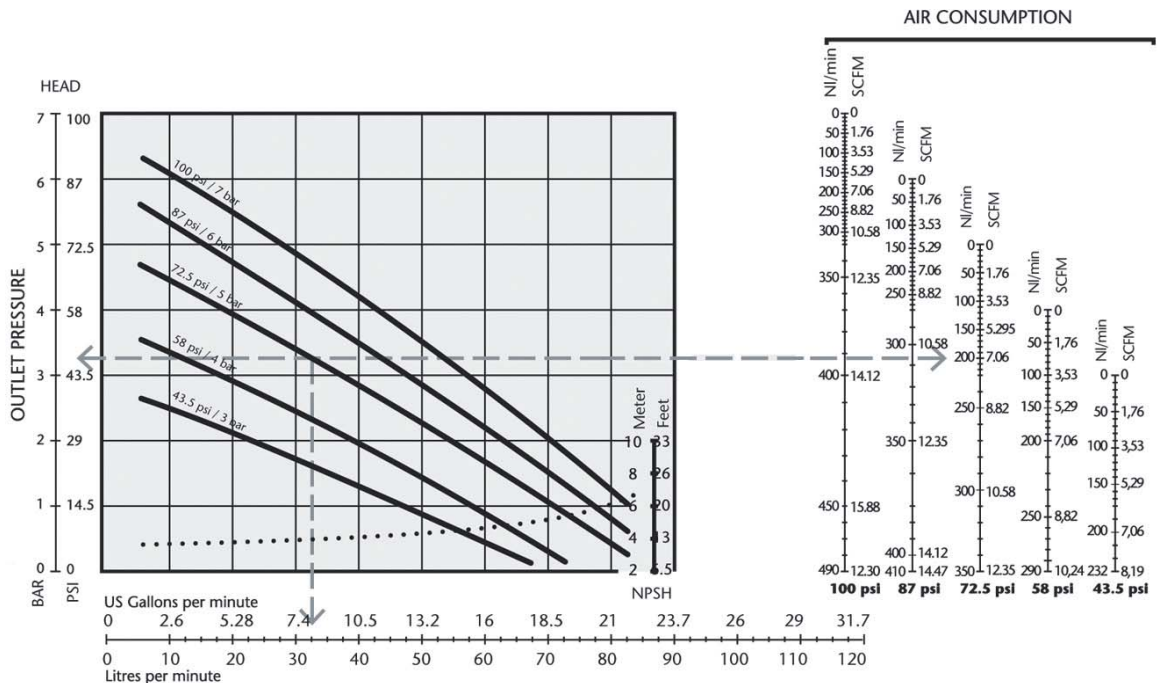
1120-026	CF30 Polypropylene
1120-024	CF30 Aluminum
1120-031	CF30 Polypropylene/BSPP

SPECIFICATIONS

Air inlet	3/8" NPSM(F)
Fluid inlet port	1" NPT(F) & flange / 1" BSPP(F) DEF
Fluid outlet port	1" NPT(F) & flange / 1" BSPP(F) DEF
Max. free flow	28 gal/m (100 l/m)
Air pressure range	45-100 psi (3-7 bar)
Solids in suspension	3/16" (4 mm)
Wetted Materials	PTFE Teflon®, Viton®, Polypropylene, Stainless Steel, and Hytrel®
1120-026	
1120-031	
1120-024	PTFE Teflon®, Buna-N®, Aluminum, Stainless Steel, and Hytrel®
Recommended fluids	Anti-freeze (Glycol) and windshield wash solution
1120-026	
1120-024	Light viscosity fluids, synthetic, mineral oils, and used oil
1120-031	Diesel exhaust fluid
Recommended applications	Fluid dispensing, transfer, evacuation, and distribution systems


SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1124
Accessories pg.	69



COUPLERS, STRAINERS & VALVES

Y-Strainer - For filtering debris on the suction side of the pump - 1,000 psi (69 bar) - all strainers have 60 mesh

	3120-051	1/2" NPT(F)	Pressure	1,000 psi (69 bar)
	3120-010	3/4" NPT(F)	Material	Ductile Iron
	3120-040	1" NPT(F)	Includes	Plug

Line Strainer - For filtering debris after the pump - 1,000 psi (69 bar) - all strainers have 60 mesh

	3120-115	1" NPT(F)	Pressure	200 psi (14 bar)
			Temp.	100°F (38°C)
			Screen	16-mesh
			Material	Polypropylene, Stainless Steel, Viton®

CAM LOCKS

COUPLERS-DRY BREAK

For quick connection and detachment of fluid hoses - rated for vacuum or up to 3,000 psi fluid pressure

COUPLER-Dry Break 3,000 psi (207 bar)				NIPPLE-Dry Break 3,000 psi (207 bar)			
	THREAD	NPT(F)	NPT(M)		THREAD	NPT(F)	NPT(M)
	3/4"	4140-016	N/A		3/4"	4140-023	N/A
	1"	4140-050	N/A		1"	4140-051	N/A

COUPLER-Dry Break Kit 3,000 psi (207 bar)

Includes: Dry Break nipple and coupler

	3/4"	4140-048		1"	4140-049
---	------	-----------------	--	----	-----------------

COUPLERS-CAM LOCKS

Cam Lock Fittings allow for quick, secure connections of hoses to tanks or other hoses. Cam Lock Couplers, nipples, and caps are available separately or in kits.

	Cam Lock COUPLER				Cam Lock CAP	
	THREAD	NPT(F)	NPT(M)		CAP SIZE	
	3/4"	4140-044	N/A		3/4"	4140-046
1"	4140-017	N/A	1"	4140-019		
	Cam Lock NIPPLE				CAM LOCK KIT Includes: Fluid Ball Valve, Cam-Lock nipple, coupler, and cap	
	3/4"	N/A	4140-045		3/4"	4140-047
	1"	N/A	4140-018		1"	4140-021

Wall Mounts for CF15 Models

1121-015



Wall mount pumping system for Anti-freeze (Glycol) or windshield washer fluid, designed for the CF15 series

- 1120-023 Polypropylene CF15 Diaphragm Pump
- 8134-005 LP Connectivity Hose Assembly 5' x 3/8"
- 3260-035 F/R Auto Drain 3/8" NPT(F)
- 8249-005 MP Connectivity Hose Assembly 5' x 1/2"
- 8145-005 LP Suction Rated Hose Assembly 10' x 1/2"
- 4412-019 CenterFlo AODD Suction Tube Kit
- 4411-025 Mounting Bracket for AODD Pumps

Mixing Packages for CF15 Models

1121-016



Blending pump system for Anti-freeze (Glycol) or windshield washer solvent, designed for the CF15 mixing. *NOTE: both fluids and their resulting solution must be compatible with the pump wetted materials, see pump specifications for details*

- 1120-028 Mixing CF15 Diaphragm Pump
- 8134-005 LP Connectivity Hose Assembly 5' x 3/8"
- 3260-035 F/R Auto Drain 3/8" NPT(F)
- 8249-005 MP Connectivity Hose Assembly 5' x 1/2"
- 8146-010 LP Suction Rated Hose Assembly 10' x 1/2"
- 4412-019 CenterFlo AODD Suction Tube Kit
- 4411-025 Mounting Bracket for AODD Pumps

Evacuation Packages for Used Oil CF15

1121-017



Evacuation system for Used Oil disposal and anti-freeze designed for the CF15 series

- 1120-027 Aluminium CF15 Diaphragm Pump
- 8134-005 LP Connectivity Hose Assembly 5' x 3/8"
- 3260-035 F/R Auto Drain 3/8" NPT(F)
- 8249-005 MP Connectivity Hose Assembly 5' x 1/2"
- 8145-005 LP Suction Rated Hose Assembly 10' x 1/2"
- 4140-016 Dry Break Coupler 3/4" NPT(F)
- 3270-053 Bushing 3/4" MPT x 1/2" FTP
- 4411-025 Mounting Bracket for AODD Pumps

Evacuation Packages for Used Oil CF30

1121-018



Evacuation system for Used Oil and Anti-freeze disposal, designed for the CF30 series

- 1120-024 Aluminum CF30 Diaphragm Pump
- 8134-005 LP Connectivity Hose Assembly 5' x 3/8"
- 3260-035 F/R Auto Drain 3/8" NPT(F)
- 8264-005 2-MP Connectivity Hose Assembly 5' x 3/4"
- 4140-016 Dry Break Coupler 3/4" NPT(F)
- 4411-025 Mounting Bracket for AODD Pumps

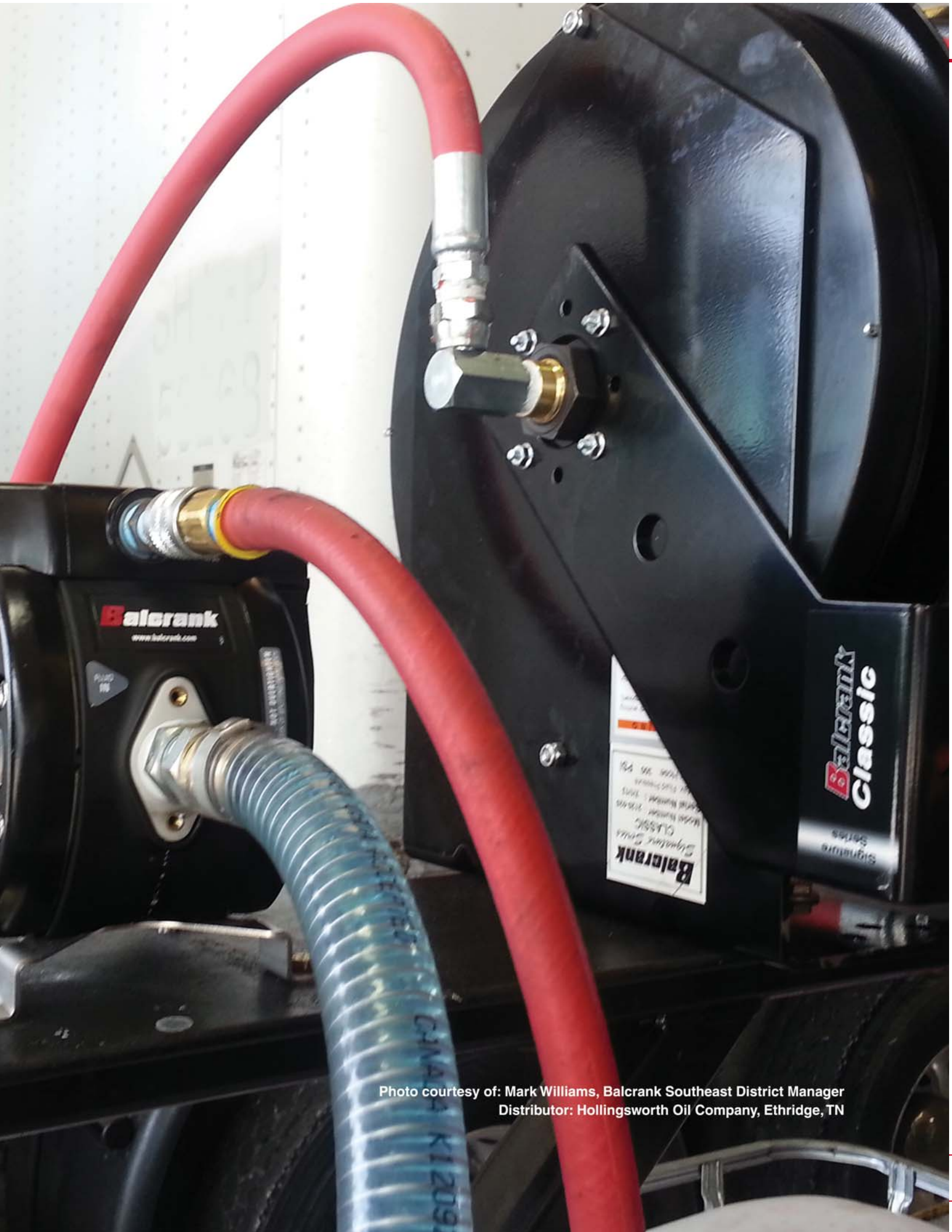


Photo courtesy of: Mark Williams, Balcrank Southeast District Manager
Distributor: Hollingsworth Oil Company, Ethridge, TN

CENTERFLO

PUMP MODELS	REPAIR KIT #	DESCRIPTION
CF10 POLY PUMP 1120-029	833206	AIR VALVE KIT
CF10 POLY PUMP 1120-029	833207	STROKE SENSOR KIT
CF10 POLY PUMP 1120-029	833236	CHECK BALL KIT
CF10 POLY PUMP 1120-029	833209	BALL SEATS, O-RINGS, BALL GUIDES
CF10 POLY PUMP 1120-029	833210	BUSHING, SEAL, PUSH ROD
CF10 POLY PUMP 1120-029	833238	DIAPHRAGMS KIT
CF15 PUMP 1120-023 / 1120-025 / 1120-027 / 1120-028	833206	AIR VALVE KIT
CF15 PUMP 1120-023 / 1120-025 / 1120-027 / 1120-028	833207	STROKE SENSOR KIT
CF15 PUMP 1120-023 / 1120-025	833208	CHECK BALL KIT
CF15 PUMP 1120-023 / 1120-025 / 1120-027 / 1120-028	833209	BALL SEATS, O-RINGS, BALL GUIDES
CF15 PUMP 1120-023 / 1120-025 / 1120-028	833210	BUSHING, SEAL, PUSH ROD
CF15 PUMP 1120-023 / 1120-025 / 1120-027 / 1120-028	833211	DIAPHRAGMS KIT
CF15 ALUMINUM PUMP 1120-027	833236	CHECK BALL KIT
CF15 ALUMINUM PUMP 1120-027	833237	BUSHING, SEAL, PUSH ROD
CF30 PUMP 1120-024 / 1120-026 / 1120-031	833212	AIR VALVE KIT
CF30 PUMP 1120-024 / 1120-026 / 1120-031	833207	STROKE SENSOR KIT
CF30 ALUMINUM PUMP 1120-024	833213	CHECK BALL KIT
CF30 ALUMINUM PUMP 1120-024	833214	BALL SEATS, O-RINGS, BALL GUIDES
CF30 ALUMINUM PUMP 1120-024	833215	BUSHING, SEAL, PUSH ROD
CF30 PUMP 1120-024 / 1120-026 / 1120-031	833216	DIAPHRAGMS KIT
CF30 POLY PUMP 1120-026 / 1120-031	833233	CHECK BALL KIT
CF30 POLY PUMP 1120-026 / 1120-031	833234	BALL SEATS, O-RINGS, BALL GUIDES
CF30 POLY PUMP 1120-026 / 1120-031	833235	BUSHING, SEAL, PUSH ROD



1"
1120-013S
Aluminum



1" UL
1120-015S
Aluminum



1 1/2"
1120-017
Aluminum



2"
1120-030S
Aluminum

Maximum free flow	45 gal/m (170 l/m)	45 gal/m (170 l/m)	70 gal/m (265 l/m)	150 gal/m (586 l/m)
Delivery per stroke	.11 gal (.42 L)	.11 gal (.42 L)	.31 gal (1.17 L)	.42 GAL (1.59 L)
Fluid inlet	1" NPT(F)	1" NPT(F)	1 1/2" NPT(F)	2" NPT(F)
Fluid outlet	1" NPT(F)	1" NPT(F)	1 1/2" NPT(F)	2" NPT(F)
Air inlet	1/2" NPT(F)	1/2" NPT(F)	1/2" NPT(F)	2" NPT(F)
Wetted parts	Aluminum	Aluminum	Aluminum	Aluminum
Check balls	Buna-N™	Buna-N™	Acetal	Acetal
Diaphragms	Buna-N™	Buna-N™	Buna-N™	Buna-N™
Recommended Fluid Types	Light viscosity fluids synthetic, mineral oils, Used Oil, and Anti-freeze (Glycol)	Oil and Diesel Fuel	Light viscosity fluids synthetic, mineral oils, Used Oil, Anti-freeze (Glycol), and Diesel Fuel	Light viscosity fluids synthetic, mineral oils, Used Oil, and Diesel Fuel
Recommended applications	Fluid dispensing, transfer, evacuation, and distribution systems	Fluid dispensing, transfer, evacuation, and distribution systems	Fluid dispensing, transfer, evacuation, and distribution systems	Fluid dispensing, transfer, evacuation, and distribution systems
Reference Data		<i>See Pipe Sizing Recommendations pg. 74</i>		
Catalog Page	65	66	67	68



MODELS AVAILABLE

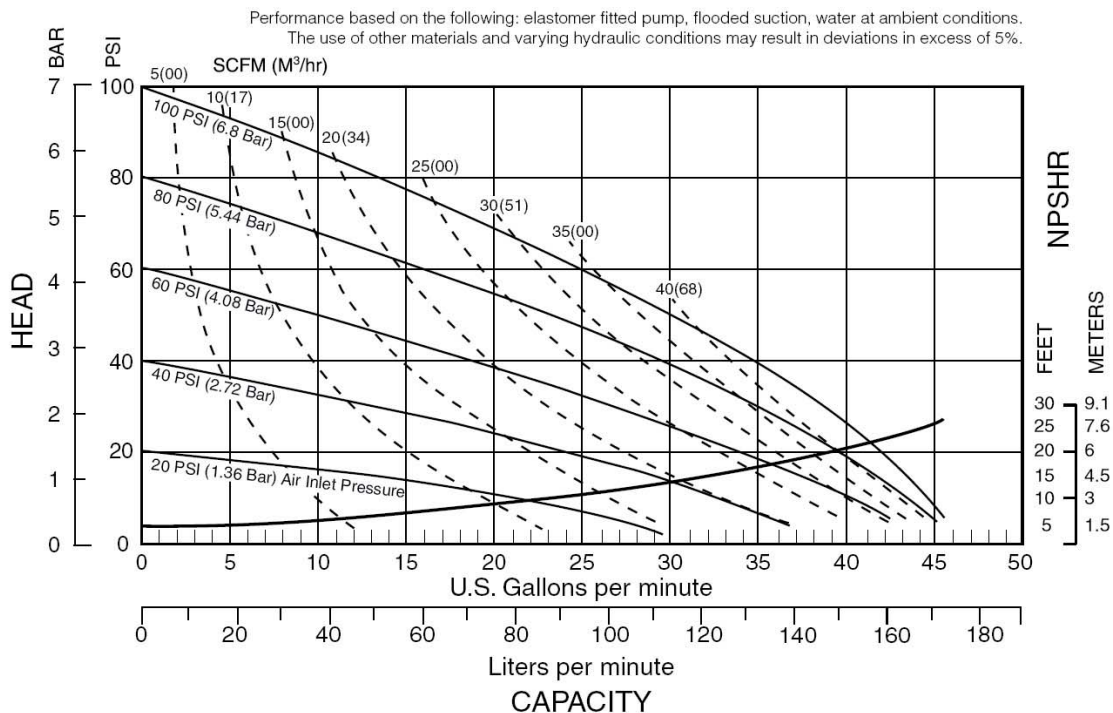
1120-013S 1" Aluminum AODD Pump

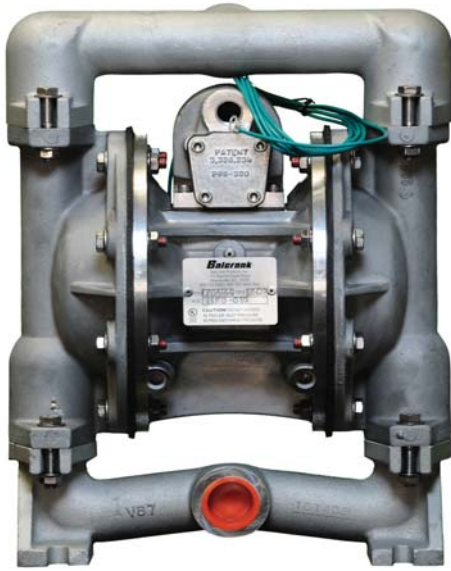
SPECIFICATIONS

Max. free flow	45 g/m (170 l/m)
Air pressure range	20-100 psi (3 - 7 bar)
Solids in suspension	1/4" (6 mm)
Air inlet	1/2" NPT(F)
Fluid inlet port	1" NPT(F)
Fluid outlet port	1" NPT(F)
Wetted materials	Aluminum, Polypropylene, and Buna-N™
Recommended Fluids	Light viscosity fluids synthetic, mineral oils, Used Oil, and Anti-freeze (Glycol)
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1096
Accessories pg.	69





MODELS AVAILABLE

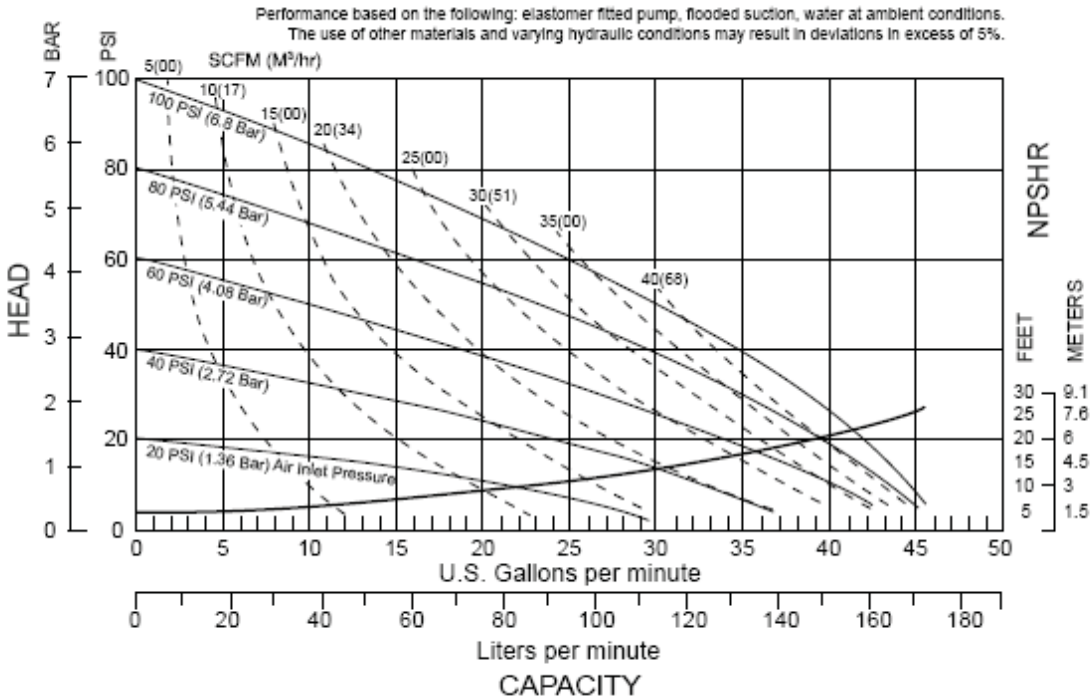
1120-015S 1" UL Aluminum AODD Pump

SPECIFICATIONS

Max. free flow	45 gal/m (170 l/m)
Air pressure range	45 -100 psi (3 - 7 bar)
Solids in suspension	1/4" (6 mm)
Air inlet	1/2" NPT(F)
Fluid inlet port	1" NPT(F)
Fluid outlet port	1" NPT(F)
Wetted materials	Aluminum and Buna-N™
Recommended Fluids	Light viscosity fluids synthetic, mineral oils, and Diesel Fuel
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1113
Accessories pg.	69





MODELS AVAILABLE

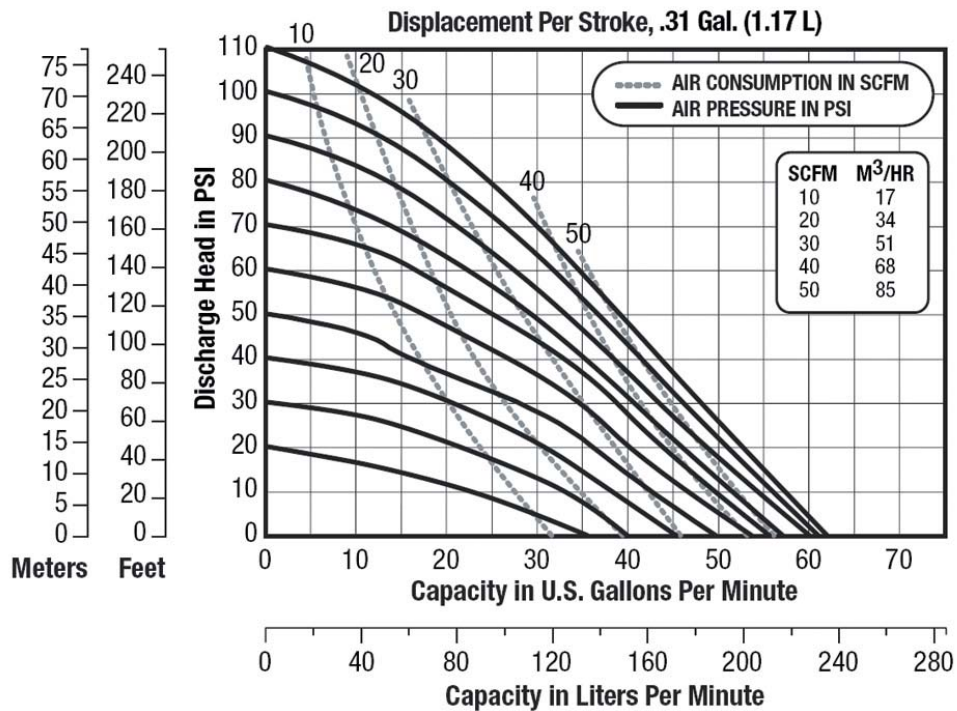
1120-017 1 1/2" Aluminum AODD Pump

SPECIFICATIONS

Max. free flow	70 gal/m (265 l/m)
Air pressure range	28 -110 psi (3.6 - 7.5 bar)
Solids in suspension	3/16" (4.762 mm)
Air inlet	1/2" NPT(F)
Fluid inlet port	1 1/2" NPT(F)
Fluid outlet port	1 1/2" NPT(F)
Wetted materials	Aluminum, Acetal, and Buna-N™
Recommended Fluids	Light viscosity fluids synthetic, mineral oils, Used Oil, and Diesel Fuel
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1069
Accessories pg.	69





MODELS AVAILABLE

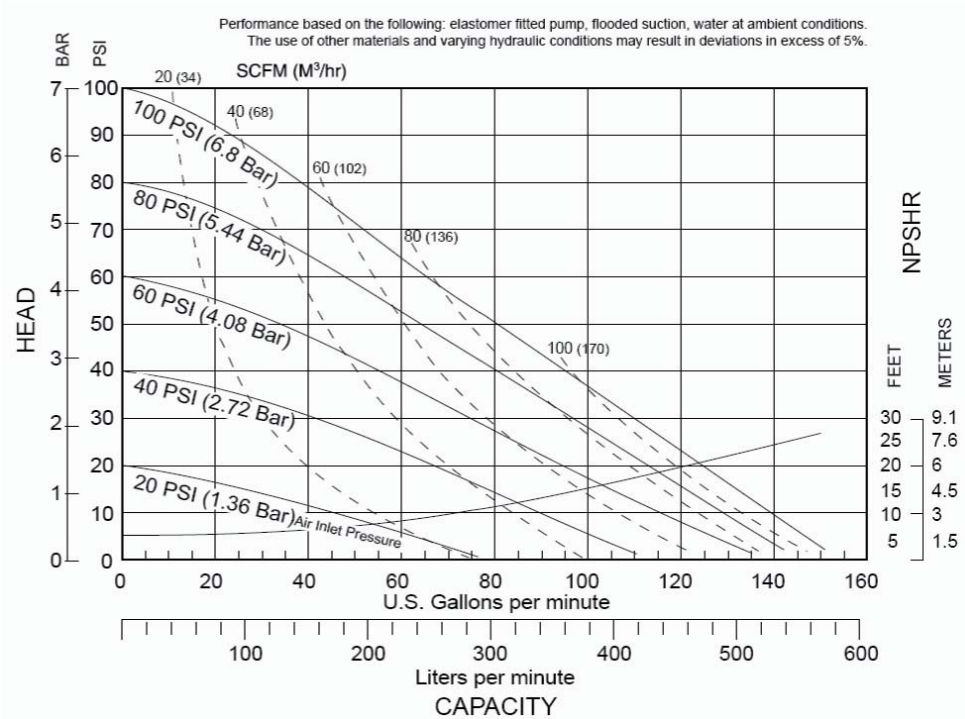
1120-030S 2" Aluminum AODD Pump

SPECIFICATIONS

Max. free flow	150 gal/m (586 l/m)
Air pressure range	225 psi (8.6 bar)
Solids in suspension	1/4" (6 mm)
Air inlet	2" NPT(F)
Fluid inlet port	2" NPT(F)
Fluid outlet port	2" NPT(F)
Wetted materials	Nitrile, PTFE (Teflon®), Aluminum, Acetal, and Buna-N™
Recommended Fluids	Light viscosity fluids synthetic, mineral oils, Used Oil, and Diesel Fuel
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1118
Accessories pg.	69



1" Evacuation Kit



1121-011

Evacuation system for gear and Lubricants disposal, designed for the 1120-013S AODD pump.

1120-013S 1" Aluminum Diaphragm Pump
 4140-015 1" Evacuation Kit
see below for details

Auto Shut-off Control



Unit monitors fluid level in tank and shuts off air supply to pump when levels are high.

Features	4520-001	4520-002
Overfill Pump Control	✓	✓
Auto-shutoff	✓	✓
Non-electric	✓	✓
Sensing Tube	✓	✓
Pump Controller	✓	✓
Audible Alarm		✓
Service Bulletin SB4222		

ACCESSORY KITS

4410-019 1" Wall Mount Kit

- 4411-016 Wall Mount Bracket
- 8134-005 Air Hose 5' x 3/8"
- 8264-005 Fluid Hose 5' x 3/4" (2)
- 3230-004 Air Ball Valve 1/2"
- 3260-035 Filter/Reg, Auto Drain 1/4"

4140-015 1" Evacuation Kit

- 4411-016 Wall Mount Bracket
- 8134-005 Air Hose 5' x 3/8"
- 8261-005 Fluid Hose 5' x 3/4"
- 8261-003 Suction Hose 3' x 3/4"
- 3260-035 Filter/Reg, Auto Drain 1/4"
- 3230-006 Fluid Ball Valve 3/8"
- 4140-016 Coupler, Dry Break 3/4"

4410-020 1/2" Wall Mount Kit

- 4411-016 Wall Mount Bracket
- 8134-005 Air Hose 5' x 3/8"
- 8249-005 Fluid Hose 5' x 1/2"
- 3230-003 Air Ball Valve 1/4"
- 3260-034 Filter/Reg, Auto Drain 1/4"

4140-026 3/4" Evacuation Kit

- 4411-016 Wall Mount Bracket
- 8134-005 Air Hose 5' x 3/8"
- 8261-005 Fluid Hose 5' x 3/4"
- 3230-006 Fluid Ball Valve 3/8"
- 8264-003 Suction Hose 3' x 3/4"
- 3260-035 Filter/Reg, Auto Drain 1/4"
- 4140-016 Coupler, Dry Break 3/4"

ACCESSORIES

SUCTION TUBES

- 4412-013 55 gal drum assembly W/ bung adapter for poly pumps for 1120-013S
- 4412-014 55 gal drum assembly W/ bung adapter for metallic 1/2" pumps for 1120-013S
- 4412-017 55 gal drum assembly W/ bung adapter for metallic 3/4" pumps

PRESSURE RELIEF KITS:

- 3120-023 Pressure Relief for Diaphragm 1/2" NPT, 125 psi (9 bar)
- 3120-024 Pressure Relief for Diaphragm 1" NPT, 125 psi (9 bar)

WALL MOUNT BRACKET:

- 4411-016 Wall Mount Bracket for conventional diaphragm pumps
- 4411-025 Wall Mount Bracket for CenterFlo diaphragm pumps

CONVENTIONAL *DISCONTINUED KITS - KITS AVAILABLE UNTIL YEAR NOTED I.E. (DISC-2015)

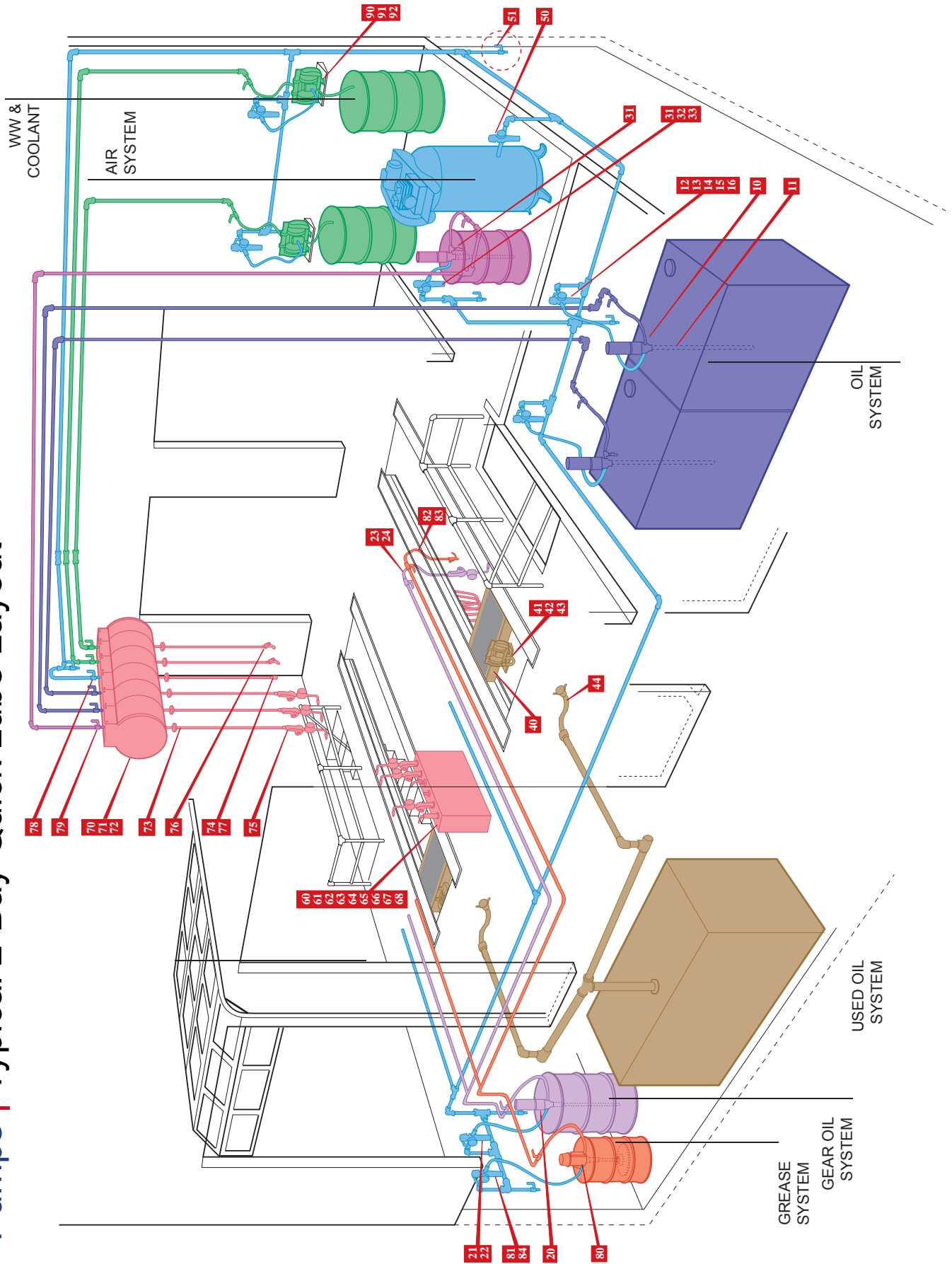
PUMP MODELS	REPAIR KIT #	DESCRIPTION
1/2" DIAPHRAGM PUMP POLY 1120-011S	832903	AIR SEAL KIT
1/2" DIAPHRAGM PUMP POLY 1120-011S	832902	FLUID SEAL KIT
1" DIAPHRAGM PUMP ALUMINUM 1120-013S	832905	AIR SEAL KIT
1" DIAPHRAGM PUMP ALUMINUM 1120-013S	832904	FLUID SEAL KIT
1" MIXING DIAPHRAGM PUMP ALUMINUM 1120-014S	832907	AIR SEAL KIT
1" MIXING DIAPHRAGM PUMP ALUMINUM 1120-014S	832906	FLUID SEAL KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-015S	833103	AIR SEAL KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-015S	832973	AIR ASSEMBLY KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-015S	832974	FLUID SEAL KIT
1-1/2" DIAPHRAGM PUMP ALUMINUM 1120-017	831975	AIR SEAL KIT
1-1/2" DIAPHRAGM PUMP ALUMINUM 1120-017	831976	FLUID SEAL KIT
3/4" DIAPHRAGM PUMP ALUMINUM 1120-019	831589	AIR SEAL KIT
3/4" DIAPHRAGM PUMP ALUMINUM 1120-019	831591	FLUID SEAL KIT
1/2" DEF PUMP 1120-020S	833100	AIR SEAL KIT
1/2" DEF PUMP 1120-020S	832903	AIR ASSEMBLY KIT
1/2" DEF PUMP 1120-020S	832978	FLUID SEAL KIT
1" DEF PUMP 1120-021S	833104	AIR SEAL KIT
1" DEF PUMP 1120-021S	832975	AIR ASSEMBLY KIT
1" DEF PUMP 1120-021S	832976	FLUID SEAL KIT
2" DIAPHRAGM PUMP ALUMINUM 1120-030S	833175	AIR SEAL KIT
2" DIAPHRAGM PUMP ALUMINUM 1120-030S	833174	AIR ASSEMBLY KIT
2" DIAPHRAGM PUMP ALUMINUM 1120-030S	833173	FLUID SEAL KIT
1/2' DIAPHRAGM PUMP POLY & ALUMINUM 1120-011, 1120-012	831589 (DISC-2015)*	AIR SEAL KIT
1/2' DIAPHRAGM PUMP POLY & ALUMINUM 1120-011, 1120-012	831934 (DISC-2015)*	AIR ASSEMBLY KIT
1/2' DIAPHRAGM PUMP POLY & ALUMINUM 1120-011, 1120-012	831591 (DISC-2015)*	FLUID SEAL KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-013, 1120-014	831590 (DISC-2015)*	AIR SEAL KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-013, 1120-014	831926 (DISC-2015)*	AIR ASSEMBLY KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-013, 1120-013	832562 (DISC-2015)*	AIR VALVE BODY
1' DIAPHRAGM PUMP ALUMINUM 1120-013, 1120-014	831592 (DISC-2015)*	FLUID SEAL KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-015	831622 (DISC-2018)*	AIR SEAL KIT
1' DIAPHRAGM PUMP ALUMINUM 1120-015	831621 (DISC-2018)*	FLUID SEAL KIT
3/4" ACETAL BALL	831594 (DISC-2015)*	3/4" CHECK BALL
1" DELRIN® BALL	827168 (DISC-2015)*	1" CHECK BALL
1" VITON® BALL	828063 (DISC-2015)*	1" CHECK BALL
1" TEFLON® BALL	825021 (DISC-2015)*	1" CHECK BALL



Photo courtesy of: Doerham Company
Distributor: Chapman BMW Service Center, Chandler, AZ

PUMPS

Pumps | Typical 2-Bay Quick Lube Layout



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	F/R Auto Drain 1/4" NPT(F)	2
13	3230-002	Fluid Shut-off Valve 1/2" NPT(F)	2
14	3270-003	Air Coupler 1/4" NPT(F)	2
15	3270-039	Air Nipple 1/4" NPT(F)	2
16	3230-003	Air Shut-off Valve 1/4" NPT(F)	2

GEAR OIL PUMP SYSTEMS

Item	Model	Description	qty.
20	1130-016	Panther® H 5:1 Pump	1
21	3260-034	F/R Auto Drain 1/4" NPT(F)	1
22	3230-002	Fluid Shut-off Valve 1/2" NPT(F)	3
23	3330-157	DR Meter Rigid 1/4 manual	1
24	3230-003	Air Shut-off Valve 1/4" NPT(F)	1

ATF PUMP SYSTEMS

Item	Model	Description	qty.
30	1130-015	Panther® HP 3:1 Pump	1
31	3260-034	F/R Auto Drain 1/4" NPT(F)	1
32	3230-002	Fluid Shut-off Valve 1/2" NPT(F)	1
33	3230-003	Air Shut-off Valve 1/4" NPT(F)	1

USED OIL SYSTEMS

Item	Model	Description	qty.
40	4140-011	Rolling Pit Drain	2
41	1121-001	Used Oil Evacuation Kit	1
42	3260-034	F/R Auto Drain 1/4" NPT(F)	1
43	3230-003	Air Shut-off Valve 1/4" NPT(F)	1
44	4140-013	Evacuation Hose	2

COMPRESSED AIR SYSTEMS

Item	Model	Description	qty.
50	3260-037	F/R Auto Drain 3/4" NPT(F)	1
51	3230-003	LP Air Bleed Valves	1

HOSE CONSOLE DISPENSING

Item	Model	Description	qty.
60	2600-001	Hose Console	1
61	8134-030	Air/Water Hose 30' x 3/8"	2
62	8241-030	Oil Hose 30' x 1/2"	5
63	2230-010	Hose Stop	2
64	3330-161	DR Handle w/Flex Ext & Auto Tip	5
65	3340-007	WW/Anti-freeze Bibb	1
66	3340-006	Air Chuck	1
67	3230-003	Air Shut-off Valve 1/4" NPT(F)	1
68	3230-002	Fluid Shut-off Valve 1/2" NPT(F)	6

HOSE REEL DISPENSING

Item	Model	Description	qty.
70	2230-022	End Panel Set	1
71	2230-008	Channel for 6 Reels	1
72	2230-002	Mounting Bracket	3
73	2220-008	Oil Reel 30' x 1/2"	5
74	2220-010	Air/W Reel 30' x 3/8"	1
75	3330-161	DR Handle w/Flex Ext & Auto Tip	3
76	3340-014	radiator Water Bibb	2
77	3340-006	Air Chuck	1
78	3230-003	Air Shut-off Valve 1/4" NPT(F)	1
79	3230-002	Fluid Shut-off Valve 1/2" NPT(F)	5

GREASE PUMP SYSTEMS

Item	Model	Description	qty.
80	1151-004	Panther Hp® 50:1 Pump	1
81	3260-034	F/R Auto Drain 1/4" NPT(F)	1
82	3230-001	Fluid Shut-off Valve 1/2" NPT(F)	3
83	3310-030	Grease Handle-Comfort Grip	2
84	3230-003	Air Shut-off Valve 1/4" NPT(F)	1

WINDSHIELD & COOLANT SYSTEMS

Item	Model	Description	qty.
90	1120-023	Alum. CF15 AODD Pump	2

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

Pumps | 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 ^(1,4)	Tubing		Pipe	
	OD	Wall ⁽²⁾	Size	Type
150 psi (10 bar)	5/8"	0.025"	1/2"	Schedule 40
250 psi (17 bar)	5/8"	0.025"	1/2"	Schedule 40

GREASE 0-200 FT.

Pump	Ratio	Maximum Pressure ^(1,4)	Tubing		Pipe	
			OD	Wall ⁽²⁾	Size	Type
LYNX	50:1	6,000 psi (414 bar)	5/8"	0.083"	Not Recommended	
Panther HP [®]	50:1	6,000 psi (414 bar)	5/8"	0.083"	Not Recommended	
Lion HP [™]	50:1	5,000 psi (345 bar)	3/4"	0.125"	Not Recommended	

AIR & WATER OVER 200 FT.

Maximum Pressure ^(1,4)	Tubing		Pipe	
	OD	Wall ⁽²⁾	Size	Type
150 psi (10 bar)	3/4"	0.025"	3/4"	Schedule 40
250 psi (17 bar)	3/4"	0.025"	3/4"	Schedule 40

GREASE OVER 200 FT.

Pump	Ratio	Maximum Pressure ^(1,4)	Tubing		Pipe	
			OD	Wall ⁽²⁾	Size	Type
LYNX	50:1	5,000 psi (345 bar)	3/4"	0.125"	Not Recommended	
Panther HP [®]	50:1	5,000 psi (345 bar)	3/4"	0.125"	Not Recommended	
Lion HP [™]	50:1	5,000 psi (345 bar)	3/4"	0.125"	Not Recommended	

MOTOR OIL, GEAR OIL, AND ATF 0-200 FT.

Pump	Ratio	Maximum Pressure ^(4,5)	Tubing		Pipe	
			OD	Wall ⁽²⁾	Size	Type
Diaphragm	1:1	120 psi (8 bar)	3/4"	0.025"	3/4"	Sch. 40
LYNX	1:1	180 psi (12 bar)	3/4"	0.025"	3/4"	Sch. 40
Panther HP [®]	3:1	490 psi (34 bar)	3/4"	0.025"	3/4"	Sch. 40
Panther HP [®]	5:1	760 psi (52 bar)	3/4"	0.025"	3/4"	Sch. 40
Tiger HP [®]	6:1	870 psi (60 bar)	1"	0.025"	1"	Sch. 40
Lion HP [™]	5:1	800 psi (55 bar)	1 1/4"	0.025"	1 1/2"	Sch. 40
Lion HP [™]	10:1	1,300 psi (90 bar)	3/4"	0.042"	3/4"	Sch. 40

MOTOR OIL, GEAR OIL, & ATF OVER 200 FT.

Pump	Ratio	Maximum Pressure ^(4,5)	Tubing		Pipe	
			OD	Wall ⁽²⁾	Size	Type
Panther HP [®]	3:1	490 psi (34 bar)	1"	0.035"	1"	Sch. 40
Panther HP [®]	5:1	760 psi (52 bar)	1"	0.035"	1"	Sch. 40
Tiger HP [®]	6:1	870 psi (60 bar)	1 1/4"	0.035"	1 1/4"	Sch. 40
Lion HP [™]	5:1	800 psi (55 bar)	1 1/2"	0.035"	1 1/2"	Sch. 40
Lion HP [™]	10:1	1,300 psi (90 bar)	1"	0.049"	1"	Sch. 40



Photo courtesy of: Fernando Vecchio, Balcrank Northeast District Manager
Distributor: Haldeman Equipment Company, Lancaster Toyota, Lancaster, PA

- (1)...Line pressures for grease pumps are limited by the strength of steel tubing and grease hose working pressure ratings. Regulate air supply pressure for grease pumps to ("max pressure"/50) psi to avoid line pressure limits.
- (2)...Based on use of fully annealed steel tubing, 15,000 psi yield strength.
- (3)...Multiple air-operated pumps supplied by a common air line may require larger line sizes. Consult your Balcrank Representative 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.

Hose Reels



Hose Reels | Signature Series Product Selection Matrix

HOSE REELS



Features	Evolution	Classic	Premium
Minimum Hose lengths	30'	30'	30'
Maximum Hose lengths	50'	50'	60' *
Hose ID 3/4"	N/A	✓	N/A
Hose ID 1"	N/A	N/A	N/A
Air/water	✓	✓	✓
Oil dispense	✓	✓	✓
Grease dispense	✓	✓	✓
Diesel Fuel	N/A	✓	N/A
Used Oil Evacuation	N/A	N/A	N/A
Diesel Exhaust Fluid (DEF)	N/A	✓	N/A
Light to medium duty installations	✓	✓	N/A
Medium to large automotive installations	✓	✓	N/A
Medium to large size shops Excessive side pull applications	N/A	N/A	✓
Mobile lube trucks	N/A	N/A	✓
Large heavy-duty installations, Fleet, Mining**, and Construction	N/A	N/A	✓
Custom Colors	N/A	✓	N/A
Reference Data			
Catalog Page	78	80	82

* 50' on spool with 10' hanging

** Mining- special hoses could be required - contact Balcrank for further information.

Hose Reels | Signature Series Product Selection Matrix



HOSE
REELS

Features	EV Extended Volume	EVX Extended Volume eXtra
Minimum Hose lengths	50'	50'
Maximum Hose lengths	75' x 1/2" *, 50' x 3/4"	100' x 1/2", 75' x 3/4", 50' x 1"
Hose ID 3/4"	✓	✓
Hose ID 1"	N/A	✓
Air/water	✓	✓
Oil dispense	✓	✓
Grease dispense	N/A	N/A
Diesel Fuel	✓	✓
Used Oil Evacuation	N/A	✓
Diesel Exhaust Fluid (DEF)	✓	N/A
Light to medium duty installations	N/A	N/A
Medium to large automotive installations	N/A	N/A
Medium to large size shops Excessive side pull applications	✓	✓
Mobile lube trucks	✓	✓
Large heavy duty-installations, Fleet, Mining**, and Construction	✓	✓
Custom Colors	N/A	N/A
Catalog Page	84	86

* 65' on spool with 10' hanging

** Mining- special hoses could be required - contact Balcrank for further information.

Evolution Hose Reel: an Evolution in Design and Performance

This hose reel is an Evolution in design and performance. Lightweight but extremely rugged: steel pedestal and arm, and dual ball-bearings. The Evolution is a solid performer. The Evolution combines design, performance, and reliability with the right features and benefits for today's customers. All Evolution series reels have a narrow and lightweight design; includes hose, hose stop, and a 2.5' connecting hose.

Superb Corrosion Resistance

Powder coated steel pedestal and arm, with a composite material spool provide superior corrosion resistance.

Superior Structural Design and Stability

Unique precision laser cut base and guide arm provide quality and strength.

Fully Ported Shaft and Pressure Balanced Swivel

Increases flow and decreases frictional pressure loss through the hose reel. Improves overall system performance and reliability.

High Quality Long Life Power Spring

The power spring is manufactured with high quality fatigue resistant steel, for long and trouble free operation.

Spool Mounted on Dual Ball-Bearings

The spool is mounted on two permanently lubricated and sealed ball-bearings reducing friction, providing smooth hose retraction, effortless operation, and improved power spring life.



Rectangular Hose Guide Outlet with Rollers

Smooth and easy operation pulling from any angle prevents hose pinch and reduces wear. Sturdy metal constructed guide.

Multi-Positioning Outlet Arm

Provide ease of changing from ceiling to base mount: six positions for any application and mounting configuration. The stop pawl, mounted in the arm, eliminates the possibility of a "latch-out" situation.

Eight-Position Latching Mechanism

Four latching teeth on each side of the spring case provide multiple hose lock positions.



Fluid Compatibility for Multiple Applications

Electroless nickel plated shaft provides maximum fluid compatibility. The shaft is manufactured as a single piece, with no threaded unions. For delivery of low-pressure air and water, medium-pressure lubricants, and high pressure grease for automotive, construction, and industrial applications.

Easy Maintenance and Service

Design provides maximum access to all serviceable parts. Hose replacement, ratchet and swivel inspection can be done easily without dismounting the reel.

Easy On-Site Tension Adjustment

Power spring tension can be adjusted on site by adding or removing hose wraps to the spool.

Easy Installation Mounting and accessories

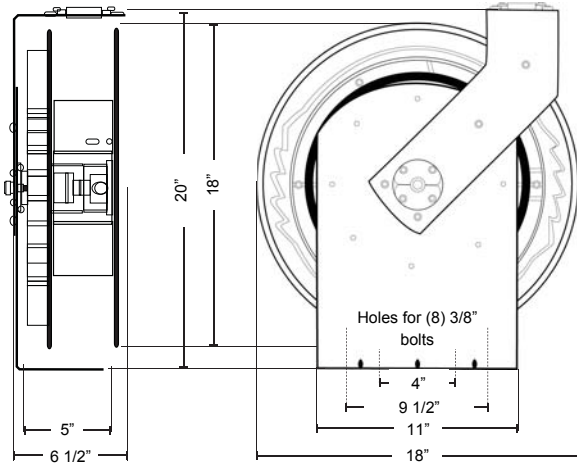
Classic, Evolution and Premium hose reels utilize the same foot print, and mounting accessories

2.5' Inlet Connecting Hose Included

Provides additional flexibility for your installation.



DIMENSIONS



Evolution Hose Reel enclosures are available. See page 88 for details.



AVAILABLE MODELS

Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, and anti-freeze.

Item	Description	Replacement Hose
2140-002	Bare reel - up to 50' Hose	
2140-007	30' X 3/8" ID hose	8136-030
2140-008	50' X 3/8" ID hose	8136-050
2140-010	30' X 1/2" ID hose	8141-030
2140-011	50' X 1/2" ID hose	8141-050

Oil Medium Pressure 3,000 psi (207 bar) for delivery of lubricants

2140-002	Bare reel - up to 50' Hose	
2140-013	30' X 1/2" ID hose	8241-030
2140-014	50' X 1/2" ID hose	8241-050

Grease High pressure 4,000 psi (276 bar) for delivery of grease

2140-005	Bare reel - up to 50' Hose	
2140-019	30' x 3/8" ID hose	8332-030
2140-020	50' x 3/8" ID hose	8332-050

SPECIFICATIONS

Low & Medium Pressure Reels

Fluid inlet port	1/2" NPT(F) swivel
Fluid outlet port	1/2" NPT(F) swivel
Outlet thread	1/4" NPT(M) for 3/8" ID Hoses
	1/2" NPT(M) for 1/2" ID Hoses
Wetted Materials	Nickel plated steel and Buna-N™

High Pressure Reels

Fluid inlet port	3/8" NPT(F) swivel
Fluid outlet port	3/8" NPT(F) swivel
Outlet thread	1/4" NPT(M) for 3/8" ID Hoses
Wetted Materials	Nickel plated steel, hardened steel, and Polyethylene

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB2025
Accessories pg.	89

The Classic Hose Reel has been the Standard of Reliability for Over a Decade.

This solid, all steel hose reel is preferred for general duty, automotive dealerships, and service garages. Proven performance and reliable operations. All Classic series reels includes hose, hose stop, and a 2.5' connecting hose.



Proven Design

Power spring is designed to maximize torque assuring reliable hose retraction and high reliability. Proven reliability over many years of extreme use in auto dealerships, quick lubes and maintenance shops.

Compact Design

Compact design allows for easy integration in workbenches, small service truck cabinets, and installations with height limitations.

Superb Corrosion Resistance

Powder coated steel pedestal and arm and spool provide superior corrosion resistance.

Heavy Duty Frame Construction

Wide-Beam structural design for superior frame rigidity. Durable, heavy-duty latch mechanism with eight locking positions, precision die-cast ratchet, and secure easy-touch pull release.

Wide Rectangular Hose Guide Outlet with Rollers

Smooth and easy operation pulling from any angle prevents hose pinch and reduces wear. Sturdy metal constructed guide.

Multi-Positioning Outlet Arm

Provide ease of changing from ceiling to base mount: seven positions for any application and mounting configuration.

Eight-Position Latching Mechanism

Four latching teeth on each side of the spring case provide multiple hose lock positions.

Fluid Compatibility for Multiple Applications

For delivery of low-pressure air and water, medium-pressure lubricants, high pressure grease, and DEF fluids for automotive, construction, and industrial applications.

LED Ready Light Port

Exclusive 1/2" round opening designed for Balcrank's Fluid Inventory Control system LED ready light. No separate hardware required. Ready light sold separately, item #3120-031.

Easy On-Site Tension Adjustment

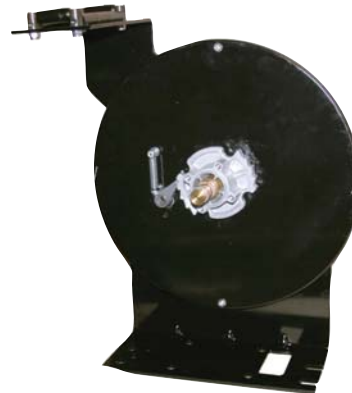
Power spring tension can be adjusted on site by adding or removing hose wraps easily from the spool.

Easy Installation Mounting and Accessories

Classic, Evolution and Premium hose reels utilize the same foot print, and mounting accessories.

2.5' Inlet Connecting Hose Included

Provides additional flexibility for your installation.



Custom Reels

CUSTOM and SPECIAL color painted reels can add style to an installation and match OEM color schemes.

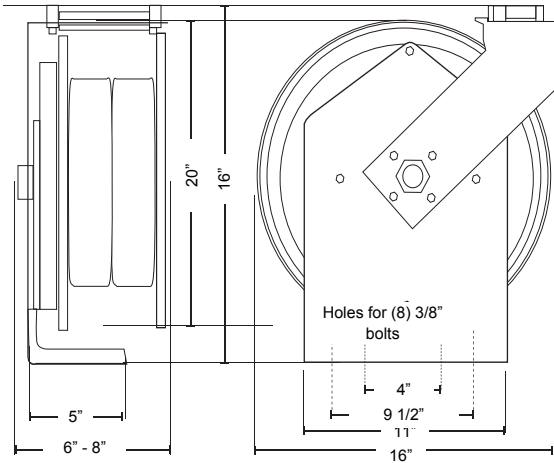
Custom colors are available on all Classic open and enclosed reels. Balcrank's STANDARD paint color for reels is semi-gloss black.

SPECIAL colors are available in: yellow, white, blue, silver, red, green, and textured black. All SPECIAL color reel orders require a minimum 2-week lead time.

CUSTOM colors are also available on open and enclosed Classic reels. Balcrank can match CUSTOM colors based on specifications supplied by the customer. All CUSTOM colors require a minimum 6-week lead time. Additional fees may apply.

Semi-Gloss	Silver	Green	Red	Blue	Yellow	Texture	White
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DIMENSIONS



8" spool shown



Classic Hose Reel enclosures are available. See page 88 for details.



SPECIFICATIONS

Low & Medium Pressure Reels

Fluid inlet port	1/2" NPT(F) swivel
Fluid outlet port	1/2" NPT(F) swivel
Outlet thread	1/4" NPT(M) for 3/8" ID Hoses
	1/2" NPT(M) for 1/2" ID Hoses
Wetted Materials	Plated steel, Brass, bronze, and Buna-N™

High Pressure Reels

Fluid inlet port	1/4" NPT(F) swivel
Fluid outlet port	1/4" NPT(F) swivel
Outlet thread	1/4" NPT(M) for 1/4" ID Hoses 5,000 psi
	1/4" NPT(M) for 3/8" ID Hoses 4,000 psi
Wetted Materials	Plated steel, hardened steel, and Buna-N®

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB2002
Accessories pg.	89

AVAILABLE MODELS

Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, and anti-freeze.

Item	Description	Replacement Hose
2120-016	Bare reel - up to 40' Hose	--
2120-017	Bare reel - up to 50' Hose	--
2120-014	30' X 3/8" ID hose	8136-030
2120-005	40' X 3/8" ID hose	8136-040
2120-015	50' X 3/8" ID hose	8136-050
2120-021*	30' X 3/8" ID hose	8141-030
2120-020	50' X 1/2" ID hose	8141-050
2120-025**	30' X 3/8" ID hose-Nitrogen	8135-030
2120-026**	50' X 3/8" ID hose-Nitrogen	8135-050

Oil Medium Pressure 3,000 psi (207 bar) for delivery of lubricants.

2120-016	Bare reel - up to 40' Hose	--
2120-017	Bare reel - up to 50' Hose	--
2120-011	30' X 1/2" ID hose	8241-030
2120-012	40' X 1/2" ID hose	8241-040
2120-013	50' X 1/2" ID hose	8241-050
2120-022*	16' X 1/2" ID hose	8241-016

Grease High-pressure 4,000 (276 bar) & 5,000 psi (345 bar) for delivery of grease.

2120-018	Bare reel - up to 40' Hose	--
2120-019	Bare reel - up to 50' Hose	--
2120-003	30' X 3/8" ID hose 4,000 psi	8331-030
2120-004	40' X 3/8" ID hose 4,000 psi	8331-040
2120-007	50' X 3/8" ID hose 4,000 psi	8331-050
2120-001	30' X 1/4" ID hose 5,000 psi	8321-030
2120-002	40' X 1/4" ID hose 5,000 psi	8321-040
2120-006	50' X 1/4" ID hose 5,000 psi	8321-050

Diesel Exhaust Fluid Low pressure 150 psi (10 bar) for delivery of DEF

2400-006	Bare reel - up to 30' Hose	--
2400-007	16' x 3/4" ID BSPP (M) includes 3' inlet hose	8569-016
2400-008	20' x 3/4" ID BSPP (M) includes 3' inlet hose	8569-020
2400-009	30' x 3/4" ID BSPP (M) includes 3' inlet hose	8569-030

Diesel Low pressure 50 psi (3 bar) for delivery of diesel

2120-027	Bare reel - up to 30' Hose	--
2120-024	30' X 3/4" ID hose	8466-030

* Classic reel less outlet arm for workbench mounting

** Nitrogen green hose, maximum working pressure 300 psi

Premium Hose Reel for the toughest shop environments

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

Superb Corrosion Resistance

Powder coated steel base, dual arm, and rugged steel spool provides superior corrosion resistance.

Superior Structural Design and Stability

Unique precision laser cut 8-gauge steel base and outlet arm provides structural strength and rigidity. Rugged steel spool for precise quality, dimension, and strength.

Fully Ported Shaft and Pressure Balanced Swivel

Increases flow and decreases frictional pressure loss through the hose reel. Improves overall system performance and reliability.



High Quality Long Life Power Spring

The power spring is manufactured with high quality, fatigue resistant steel, for long and trouble free operation.

Spool Mounted on Dual Ball-Bearings

The spool is mounted on two permanently lubricated and sealed ball-bearings; reducing friction, providing smooth hose retraction, effortless operation, and improved power spring life.

Rectangular Hose Guide Outlet with Rollers

Smooth and easy operation pulling from any angle prevents hose pinch and reduces wear. Sturdy metal constructed guide.

7-Position Outlet Arm

Provide ease of changing from ceiling to base mount: seven positions for any application and mounting configuration. The stop pawl is accessible from the arm, eliminates the possibility of a "latch-out" situation.



12-Position Latching Mechanism

Six latching teeth on each side of the spring case provides multiple hose lock positions.

Fluid Compatibility for Multiple Applications

Electroless nickel plated protected shaft provides maximum fluid compatibility. The shaft is manufactured as a single piece, with no threaded unions. For delivery of low-pressure air and water, medium-pressure lubricants, and high pressure grease for automotive, construction, and industrial applications.

LED Ready Light Port

Exclusive 1/2" round opening designed for Balcrank's Fluid Inventory Control system LED ready light. No separate hardware required. Ready light sold separately item #3120-031.

Easy Maintenance and Service

Design provides maximum access to all serviceable parts. Hose replacement, ratchet, and swivel inspection can be done easily without dismantling the reel. Power Spring tension can be adjusted on site by removing one arm adding or removing hose wraps from the spool.

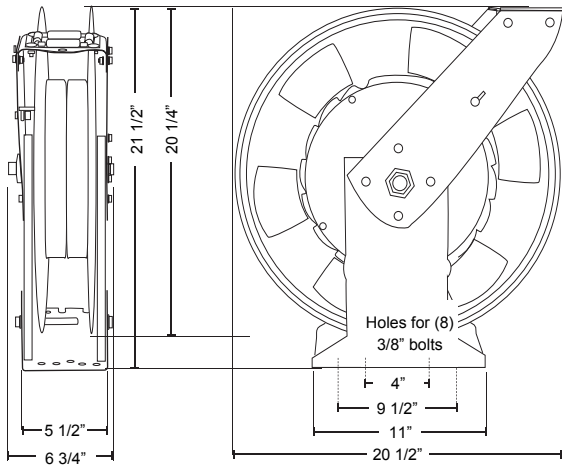
Easy Installation Mounting and Accessories

Classic, Evolution and Premium hose reels utilize the same foot print, and mounting Accessories

2.5' Inlet Connecting Hose Included

Provides additional flexibility for your installation.

DIMENSIONS



SPECIFICATIONS

Low & Medium Pressure Reels

Fluid inlet port	1/2" NPT(F) swivel
Fluid outlet port	1/2" NPT(F) swivel
Outlet thread	1/2" NPT(M) for 3/8" ID Hoses
	1/2" NPT(M) for 1/2" ID Hoses
Wetted Materials	Nickel plated steel and Buna-N™

High Pressure Reels

Fluid inlet port	3/8" NPT(F) swivel
Fluid outlet port	3/8" NPT(F) swivel
Outlet thread	1/4" NPT(M) for 1/4" ID Hoses
	1/4" NPT(M) for 3/8" ID Hoses
Wetted Materials	Nickel plated steel, hardened steel and Polyethylene

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB2027
Accessories pg.	89

AVAILABLE MODELS

Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, and anti-freeze.

Item	Description	Replacement Hose
2111-027	Bare reel - up to 50' Hose	--
2111-028	Bare reel - up to 60' Hose	--
2111-031	30' x 3/8" ID hose	8136-030
2111-032	40' x 3/8" ID hose	8136-040
2111-033	50' x 3/8" ID hose	8136-050
2111-034	60' x 3/8" ID hose (50' + 10')*	8136-060
2111-035	40' x 1/2" ID hose	8141-040
2111-036	50' x 1/2" ID hose	8141-050
2111-037	60' x 1/2" ID hose (50' + 10')*	8141-060

Oil Medium Pressure 3,000 psi (207 bar) for delivery of lubricants.

2111-027	Bare reel - up to 50' Hose	--
2111-028	Bare reel - up to 60' Hose	--
2111-038	30' x 1/2" ID hose	8241-030
2111-039	40' x 1/2" ID hose	8241-040
2111-040	50' x 1/2" ID hose	8241-050
2111-041	60' x 1/2" ID hose (50' + 10')*	8241-060

Grease High-pressure 4,000 (276 bar) & 5,000 psi (345 bar) for delivery of grease.

2111-029	Bare reel - up to 50' Hose	--
2111-030	Bare reel - up to 60' Hose	--
2111-045	40' x 3/8" ID hose 4,000 psi	8332-040
2111-046	50' x 3/8" ID hose 4,000 psi	8332-050
2111-047	60' x 3/8" ID hose (50' + 10')* 4,000 psi	8332-060
2111-042	40' x 1/4" ID hose 5,000 psi	8323-040
2111-043	50' x 1/4" ID hose 5,000 psi	8323-050
2111-044	60' x 1/4" ID hose (50' + 10')* 5,000 psi	8323-060

* 50' on spool with 10' hanging

Hose Reels | Extended Volume (EV)

The Extended Volume, EV, Series hose reel is designed for high volume

heavy-duty applications where large hose diameters are required for increased flow.

The EV reel will accommodate up to 50' of 3/4" ID hose or 75' of 1/2" ID hose (65' + 10' hanging). Perfect for heavy-duty fleet, construction, mining**, and industrial applications. All EV series reels include hose, hose stop, and a 2.5' connecting hose.

HOSE
REELS



Superb Corrosion Resistance

Powder coated steel base, arm, and rugged steel spool provides superior corrosion resistance.

8-Gauge Steel Base and Outlet Arm

Provide strong frame support and arm rigidity. Robotic welding for precise quality, dimension, and strength.

Fully Ported Shaft and Pressure Balanced Swivel

Increases flow and decreases frictional pressure loss through the hose reel. Improves overall system performance and reliability.

High Quality Long Life Power Spring

The power spring is manufactured with high quality, fatigue resistant steel, for long and trouble free operation.

Spool Mounted on Dual Ball-Bearings

The spool is mounted on two permanently lubricated and sealed ball-bearings; reducing friction, providing smooth hose retraction, effortless operation, and improved power spring life.

Rectangular Hose Guide Outlet with Rollers

Smooth and easy operation pulling from any angle prevents hose pinch and reduces wear. Sturdy metal constructed hose guide.

Multi-Position Outlet Arm

Easy adjustment for any application and mounting configuration. The unique stop pawl concept, accessible from the spool, eliminates the possibility of a "latch-out" situation.

Ten-position Latching Mechanism

Five latching teeth on every revolution provide multiple hose lock positions.

Fluid Compatibility for Multiple Applications

Electroless nickel plated shaft provides maximum fluid compatibility. The shaft is manufactured as a single piece, with no threaded unions. For delivery of low-pressure air and water, medium-pressure lubricants. Design for heavy-duty fleet, automotive, construction, and industrial applications.

Easy Maintenance and Service

Design provides maximum access to all serviceable parts. Robust, easy to service, Aluminum die cast stop-pawl mechanism mounted on a steel chassis. Robotic welded for increased durability.

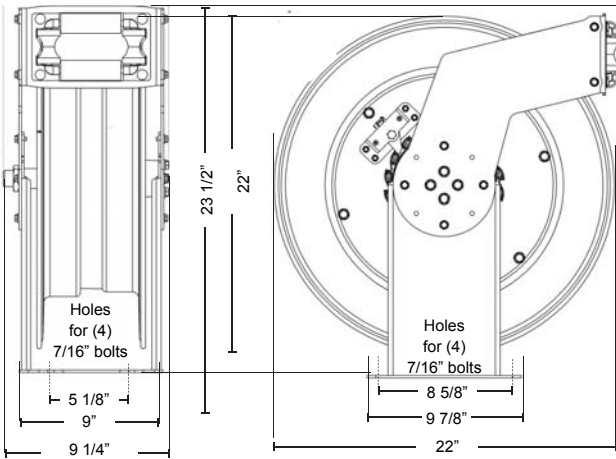
2.5' Inlet Connecting Hose Included

Provides additional flexibility for your installation.



** Mining- special hoses could be required - contact Balcrank for further information.

DIMENSIONS



AVAILABLE MODELS

Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, and anti-freeze.

Item	Description	Replacement Hose
2310-033	Bare reel - up to 75" x 1/2" (65' + 10')* or 50' x 3/4"	--
2310-027	75' x 1/2" ID hose (65' + 10')*	8141-075
2310-028	50' x 3/4" ID hose	8161-050

Oil Medium Pressure 1,525 psi (105 bar) for delivery of lubricants.

Item	Description	Replacement Hose
2310-033	Bare reel - up to 75" x 1/2" (65' + 10')* or 50' x 3/4"	--
2310-031	50' x 3/4" ID hose	8264-050
2310-029	65' x 1/2" ID hose	8250-065
2310-030*	75' x 1/2" ID hose (65' + 10')*	8250-075

Diesel Low Pressure 50 psi (3 bar) for delivery of diesel.

Item	Description	Replacement Hose
2310-033	Bare reel - up to 75" x 1/2" (65' + 10')* or 50' x 3/4"	--
2310-032	50' x 3/4" ID hose	8466-050

Diesel Exhaust Fluid Low Pressure 150 psi (10 bar) for delivery of diesel exhaust fluid.

Item	Description	Replacement Hose
2400-010	Bare reel, up to 50' X 3/4" ID hose BSPP	--
2400-011	50' X 3/4" ID hose BSPP	8569-050

* 65' on spool with 10' hanging

HOSE REELS

SPECIFICATIONS

Low & Medium Pressure Reels

Fluid inlet port	3/4" NPT(F) swivel
Fluid outlet port	3/4" NPT(F) swivel
Outlet thread	1/2" NPT(M) for 1/2" ID Hoses
	3/4" NPT(M) for 3/4" ID Hoses
Wetted Materials	Nickel plated steel and Buna-N™ DEF Reels - Stainless steel, acetal, and Viton

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB2028
Accessories pg.	89

The Extended Volume Extra, EVX, Series hose reel is designed for extra high volume, heavy-duty applications where larger hose diameters are required for increased flow.

The EVX reel will accommodate up to 50' of 1" ID hose or 100' of 1/2" ID hose. Perfect for heavy-duty fleet, construction, mining** and industrial applications. All EVX series reels include hose, hose stop, and a 2.5' connecting hose.



Superb Corrosion Resistance

Powder coated steel base, arm, and rugged steel spool provides superior corrosion resistance.

8-Gauge Steel Base and Outlet Arm

Provide strong frame support and arm rigidity. Robotic welding for precise quality, dimension, and strength.

Fully Ported Shaft and Pressure Balanced Swivel

Increases flow and decreases frictional pressure loss through the hose reel. Improves overall system performance and reliability.

High Quality Long Life Power Spring

The power spring is manufactured with high quality, fatigue resistant steel, for long and trouble free operation.

Spool Mounted on Dual Ball-Bearings

The spool is mounted on two permanently lubricated and sealed ball-bearings; reducing friction, providing smooth hose retraction, effortless operation, and improved power spring life.

Rectangular Hose Guide Outlet with Zinc Plated Steel Rollers

Smooth and easy operation pulling from any angle prevents hose pinch and reduces wear. Sturdy metal constructed guide.

Fluid Compatibility for Multiple Applications

Electroless nickel plated shaft provides maximum fluid compatibility. The shaft is manufactured as a single piece, with no threaded unions. For delivery of low-pressure air and water and medium-pressure lubricants for automotive, construction, and industrial applications.

Multi-Position Outlet Arm

Easy adjustment for any application and mounting configuration. The unique stop pawl concept, accessible from the spool, reduces the possibility of a "latch-out" situation.

Ten-Position Latching Mechanism

Five latching teeth on every revolution provide multiple hose lock positions.

Easy Maintenance and Service

Design provides maximum access to all serviceable parts.

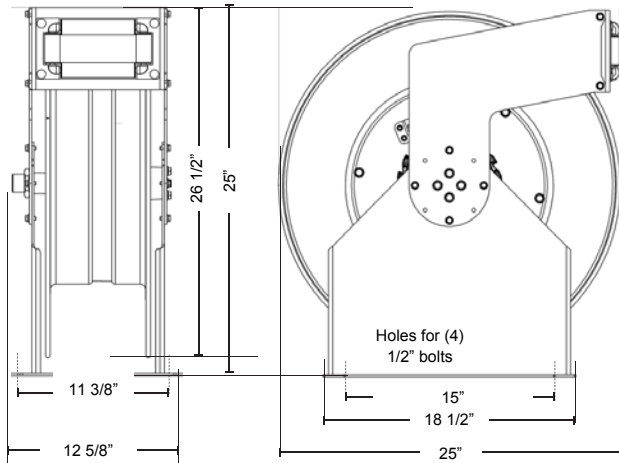
2.5' Inlet Connecting Hose Included

Provides additional flexibility for your installation.



** Mining- special hoses could be required - contact Balcrank for further information.

DIMENSIONS



AVAILABLE MODELS

Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, and anti-freeze.

Item	Description	Replacement Hose
2310-034	Bare reel, 50' x 1" ID hose or 75' x 1/2" ID hose	--
2310-035	Bare reel, 75' x 3/4" ID hose or 100' x 1/2" ID hose	--
2310-036	75' x 1/2" ID hose	8141-075
2310-038	75' x 3/4" ID hose	8161-075
2310-037	100' x 1/2" ID hose	8141-100
2310-039	50' x 1" ID hose	8181-050

Oil Medium Pressure 1,525 psi (105 bar) for delivery of lubricants

2310-035	Bare reel, 75' x 3/4" ID hose or 100' x 1/2" ID hose	--
2310-040	100' x 1/2" ID hose	8250-100
2310-041	75' x 3/4" ID hose	8264-075

Diesel & Evacuation Low Pressure 50 psi (3 bar) for delivery of diesel fuel and used oil evacuation

2310-034	Bare reel, 50' x 1" ID hose or 75' x 1/2" ID hose	----
2310-043	50' x 1" ID hose Diesel	8481-050
2310-042	50' x 1" ID hose Evacuation	8181-050

** Verify that system design supports the use of an evacuation reel*

SPECIFICATIONS

Low & Medium Pressure Reels

Fluid inlet port	1" NPT(F) swivel
Fluid outlet port	1" NPT(F) swivel
Outlet thread	1/2" NPT(M) for 1/2" ID Hoses
	3/4" NPT(M) for 3/4" ID Hoses
	1" NPT(M) for 1" ID Hoses
Wetted Materials	Nickel plated steel and Buna-N™

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB2029
Accessories pg.	89

Hose Reels | Enclosed Hose Reels

Enclosed Hose Reels

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

- All steel cabinets have high quality, powder coated finish providing corrosion resistance
- Smooth and easy operation pulling from any angle prevents hose pinch and reduces wear. Sturdy metal constructed guide.
- Strong, rigid steel mounting structure
- Balcrank exclusive metal end panels
- Enclosed cabinets include:
 - Inlet hoses and hose stops, for quick and easy installation
 - Two metal side panels
 - End panels and mounting Accessories must be purchased separately



AVAILABLE MODELS

Air & Water Low Pressure 300 psi (21 bar) for delivery of air, water, and anti-freeze.

2240-007	30' x 3/8" ID hose Evo	8136-060
2240-008	50' x 3/8" ID hose Evo	8136-050
2220-010	30' x 3/8" ID hose Classic	8136-030
2220-011	40' x 3/8" ID hose Classic	8136-040
2240-010	30' x 1/2" ID hose Evo	8141-030
2240-011	50' x 1/2" ID hose Evo	8141-050

Oil Medium Pressure 3,000 psi (207 bar) for delivery of lubricants

2240-013	30' x 1/2" ID hose Evo	8241-030
2240-014	50' x 1/2" ID hose Evo	8241-050
2220-008	30' x 1/2" ID hose Classic	8241-030
2220-005	40' x 1/2" ID hose Classic	8241-040

Grease High-pressure 4,000 (276 bar) & 5,000 psi (345 bar) for delivery of grease

2240-019	30' x 3/8" ID hose 4,000 psi - Evolution	8332-030
2240-020	50' x 3/8" ID hose 4,000 psi - Evolution	8332-050
2220-004	40' x 3/8" ID hose 4,000 psi - Classic	8331-040
2220-001	30' x 1/4" ID hose 5,000 psi - Classic	8331-030

ELECTRIC UTILITY REELS

2530-001	Enclosed cabinet - Includes 1-Light Cord Reel 50' x 18 gauge
2530-002	Enclosed cabinet - Includes 2-Light Cord Reel 50' x 18 gauge
2510-010	Light Cord Reel-50' x 18 gauge
2510-011	Electric Cord Reel-30' x 10 amps, 3 outlet

END PANELS

2230-022	End Panels, Metal-Black
2230-022P	End Panels, Metal-Custom Paint

Replacement Side Panels

810612	Side Panels, Metal-Custom Paint
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Custom Reels

CUSTOM and SPECIAL color painted reels can add style to an installation and match OEM color schemes.



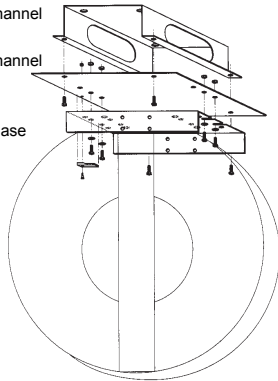

Custom colors are available on all Classic open and enclosed reels. Balcrank's STANDARD paint color for reels is semi-gloss black.

SPECIAL colors are available in: yellow, white, blue, silver, red, green, and textured black. All SPECIAL color reel orders require a minimum 2-week lead time.




CUSTOM colors are also available on open and enclosed Classic reels. Balcrank can match CUSTOM colors based on specifications supplied by the customer. All CUSTOM colors require a minimum 6-week lead time. Additional fees may apply.

Semi-Gloss	Silver	Green	Red	Blue	Yellow	Texture	White
------------	--------	-------	-----	------	--------	---------	-------


CHANNELS MOUNTING COMPONENTS

	2230-003	Mounting Channel - 1 Reel	<p>Channels are designed to build reel banks of 1 to 6 reels.</p> <p>If mounting directly to an I-Beam, use Mounting Channel I-Beam Bracket Kit #2230-002 to mount channel to a structural I-beam. Use Mounting Channel plate #2230-014 to install open reel to the channel</p>
	2230-004	Mounting Channel - 2 Reels	
	2230-005	Mounting Channel - 3 Reels	
	2230-006	Mounting Channel - 4 Reels	
	2230-007	Mounting Channel - 5 Reels	
	2230-008	Mounting Channel - 6 Reels	
	2230-002	Mounting Channel I-Beam Bracket Kit Attaches mounting channel (2230-XXX) to facility I-beam structure. Use two bracket kits for 2, 3, or 4 reels. Use 3 brackets for 5 or 6 reels.	<p>Mounting Channel</p> <p>Mounting Channel Plate</p> <p>Hose Reel base Plate</p> 
	2230-014	Mounting Channel Plate Simplified system for using open hose reels with a mounting channel. One person installation made easy, as this lighter weight plate is bolted to the mounting channel, providing plug & play mount of open reels.	
<p>NOTE: Not to be used with Enclosed Hose Reels</p>			



MOUNTING BRACKET KITS

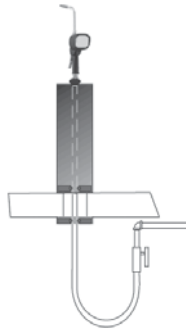
	2230-024	Quick Mounting Plate For use with EVO, Premium, and Classic. Specially configured mounting plate kit is designed to facilitate simple, one person field installation of hose reels. No mounting channel required, mounts directly to unistrut. For I-beam mounting order 2230-013. NOTE: Not to be used with EV or EVX Hose Reels
	2230-013	I-Beam Mounting Clamps For use with single EVO, Premium, and Classic. Attaches reel directly to structural beams with 4½" to 6½" flange widths or can be used with 2230-024. NOTE: Not to be used with EV or EVX Hose Reels
	2230-016	Mounting Adapter Plate Kit for Classic Hose Reels For use with EVO, Premium, and Classic. The purpose of the kit is to facilitate the field installation of a Balcrank Signature™ Series Hose Reels onto a previously installed Graco mounting plate or Graco Series 250 and 350 hose reels.

HOSE REEL ACCESSORIES

	2230-009	Hose stop for 1/4" ID Hoses
	2230-025	Hose stop for 3/8" ID Hoses
	2230-010	Hose stop for 1/2" ID Hoses
	2230-011	Hose stop for 3/4" ID Hoses
	2230-012	Hose stop for 1" ID Hoses

TANK SADDLE

	<p>Use our exclusive saddle bracket, Model 4520-006 to quickly attach Balcrank hose reels to any 275 or 550 gallon obround tank. One step attachment, no welding or tank modifications required. Order separate vent kit, Model 4520-007, to attach the saddle to standard oval tanks at the vent cap location.</p>	
	4520-006	Tank Saddle Bracket
	4520-007	Tank Vent Kit



Select recommended 16' length hoses from the hose table on page 87. Be sure to add hand shut-off valves and hose tethering space as shown in the diagram. Follow architect's guidelines for floor opening.

FEATURES:

- The reliable alternative to hose reels. For quick lubes or other installations where a basement pit space is available.
- Compact Design, Small Space Requirement
- 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

MODELS AVAILABLE

2600-001 Lube Console

SPECIFICATIONS

Dimensions	42" x 9" x 32"
Floor Space	2.6 Sq. Ft

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB2005
Accessories pg.	144

ACCESSORIES

	2600-003	Lower Hose Guide Assembly
	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 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	Basement/Ceiling Plate Basement /ceiling plate with two hose outlets.

Hose Reels | Replacement Hoses

MODEL PREFIX	HOSE TYPE	HOSE I.D.	MAX WP (psi)	HOSE END THREADS (NPT)	LENGTH SUFFIX IN FEET														
					2	3	5	6-7	8-12	16	20-25	30	40	50	60	70-75	100		
8132	AIR/WATER	3/8"	300	1/4" M...1/4" M			-005												
8134	AIR/WATER	3/8"	300	3/8" M...3/8" MSW		-003	-005												
8135	NITROGEN-GREEN	3/8"	300	1/4" M...1/2" M	**002X	-003													
				**1/2" MSW...1/2" M															
8136	AIR/WATER	3/8"	300	1/4" M...1/2" M						-016									
8141	AIR/WATER	1/2"	300	1/2" M...1/2" M		-003	-005												
8142	AIR/WATER	1/2"	300	1/2" M...1/2" MSW	-002X														
8144	AIR/WATER	1/2"	300	1/2" M...3/8" M		-003	-005												
8145	AIR/WATER	1/2"	300 & SUCTION	1/2" M...1/2" MSW			-005												
8146	AIR/WATER	1/2"	300 & SUCTION	1/2" MSW...3/8" F					-010										
8149	AIR/WATER	1/2"	300	1/2" M...1/2" MSW		-005	-005												
8161	AIR/WATER	3/4"	315	3/4" M...3/4" MSW	-002X														
8171	AIR/WATER	3/4"	250 & SUCTION	3/4" MSW...3/4" MSW				-006											
8181	AIR/WATER	1"	250 & SUCTION	1" MSW...1" MSW	-002X		-005												
8241	OIL	1/2"	3,000	1/2" M...1/2" M	-002	-003	-006	-006	-008	-016	-020 & -025	-030	-040	-050	-060	-070			
8242	OIL	1/2"	3,000	3/8" M...3/8" M	-002	-003	-006	-006	-010		-020	-030	-040	-050	-060				
8249	OIL	1/2"	3,000	1/2" M...1/2" MSW	-002X	-004	-005	-006	-008 & -010	-016									
8250	OIL	1/2"	2,320	1/2" MSW...1/2" M															
8261	OIL	3/4"	1,525	3/4" M...3/4" M		-003	-005		-010										
8262	OIL	3/4"	1,525	1/2" MSW...1/2" MSW		-003			-010										
8263	OIL	3/4"	1,525	3/4" M...1/2" MSW					-010										
8264	OIL	3/4"	1,525	3/4" M...3/4" MSW	-002X	-003	-005					-030		-050		-075			
8281	OIL	1"	2,250	1" M...1" MSW	-002X		-005												
8321	GREASE	1/4"	5,000	1/4" M...1/4" MSW				-007											
8322	GREASE	1/4"	5,000	1/2"-27 F...1/2"-27 F	-002	-003	-005		-010		-020								
8323	GREASE	1/4"	5,000	1/4" M...3/8" M															
8331	GREASE	3/8"	4,000	1/4" M...1/4" MSW			-005	-007	-010	-016	-020	-030	-040	-050	-060	-070			
8332	GREASE	3/8"	4,000	1/4" M...3/8" M		-005	-005	-007	-010		-020	-030	-040	-050	-060				
8333	GREASE	3/8"	4,000	3/8" M...3/8" M		-005	-005	-007	-010		-020	-030	-040	-050	-060				
8334	GREASE	3/8"	4,000	3/8" M...3/8" MSW	-002X				-010										
8340	GREASE	1/2"	5,000	1/2" M...1/2" MSW	-002X														
8466	DIESEL	3/4"	50	3/4" M...3/4" MSW	-002X							-030		-050					
8481	DIESEL	1"	50	1" M...1" MSW	-002X														
THREADS (BSPP)																			
8551	DEF	1"	50	CUT END...SIMPLE SPOUT				-006											
8560	DEF	3/4"	150	CUT ENDS W/ HOSE CLAMPS		-003			-012										
8561	DEF	3/4"	150	CUT END...3/4" M		-003			-012	-016	-020	-030							
8562	DEF	3/4"	150	3/4" M...3/4" MSW		-003													
8569	DEF	3/4"	150	3/4" MSW...3/4" MSW						-016	-020	-030							
8570	DEF	3/4"	150 & SUCTION	CUT ENDS W/ HOSE CLAMPS		-003			-006										
8572	DEF	1"	150 & SUCTION	CUT ENDS W/ HOSE CLAMPS		-006													

For complete hose model specification, combine "Model Prefix" in the first column with a "Length Suffix" in the right-hand table. Example: Model 8134-030, 3/4" Air/Water Hose, 30 ft. length.

HOSE REELS



Photo courtesy of: Emily Silvers, Express Lube
Balcrank Corp. Product Test Location, Weaverville, NC

Control Handles



Control Handles | Product Selection Matrix

CONTROL
HANDLES



Features	DR Series Metered	MR Series Metered	Classic Mechanical Pre-settable
Unit of Measure	gal/ qt/ pt/ l	qt/ l	gal/ qt/ pt/ l
Flow Range	0.26-8 gal/m (1-30 l/m)	0.5-5.3 gal/min (2-20 l/min)	.4-4 gal/m (1.51-15.1 l/m)
Maximum Pressure	1450 psi (100 bar)	1,450 psi (100 bar)	1,000 psi (70 bar)
Oil dispense	✓	✓	✓
Anti-freeze (Glycol)	✓	✓	✓
Windshield			✓
Metered	✓	✓	✓
Non-Metered			
High Volume Applications			
Light to medium duty	✓	✓	✓
Heavy duty	✓	✓	✓
Recommended Fluids	Lubricants, (up to SAE 140), ATF, Anti-freeze (Glycol), Anti-freeze water solution	Lubricants, ATF, and Anti-freeze (Glycol) with a maximum viscosity of SAE 14	Lubricants, ATF and Anti-freeze (Glycol) with a maximum viscosity of SAE 140
Reference Data			
Catalog Pages	96	100	102

Control Handles | Product Selection Matrix



CONTROL
HANDLES

Features	Non-Metered	Hi-Flo Non-Metered	Hi-Flo Metered
Unit of Measure	gal/ qt/ pt/ l	gal/ qt/ pt/ l	gal/ qt/ pt/ l
Flow Range	--	--	0.26-18 gal/min) (2-70 l/min)
Maximum Pressure	1,450 psi (100 bar)	1,450 psi (100 bar)	1,450 psi (100 bar)
Oil Dispense	✓	✓	✓
Anti-freeze (Glycol)	✓	✓	✓
Windshield	✓		
Metered			✓
Non-metered	✓		
High Volume Applications	✓	✓	✓
Light to medium duty	✓	✓	✓
Heavy duty	✓	✓	✓
Recommended Fluids	Lubricants, Diesel, Oil, ATF, Antifreeze, Gear Oil Maximum viscosity SAE 140	Lubricants, ATF, and Anti-freeze (Glycol)	Lubricants, Diesel, Oil, ATF, Antifreeze, Gear Oil Maximum viscosity SAE 140
Reference Data			
Catalog Pages	103	104	106



Introducing the Doctor! The new DR (Digital Registry) meter from Balcrank. "The cure for the common meter"

The DR meter carries with it new innovative technology in a digital meter. Our new meter is precision balanced, lightweight and ergonomically designed. Simple, accurate and efficient, this meter combines new features with proven oval gear technology.

CONTROL HANDLES



NEW memory-flex extension; bend the extension to the desired angle and it retains its shape.

- No field calibration required: Precision machined aluminum die-cast fluid chamber maintains the tight tolerances required for repeatable accuracy. Each meter is individually tested for performance and accuracy which guarantees precise dispensing regardless of fluid viscosity, system pressure or changes in outside temperature.
- Meter housing: unique totally encased polycarbonate housing with TP Elastomer over mold provides superb impact resistance while isolating the electronic register module (ERC) from the environment which provides an airtight seal with the meter body.
- Sealed battery compartment: battery clips are mounted directly on the ERC, no cables for battery contact, which ensures protection against the environment, impact, or vibrations.
- Low power consumption: ERC with auto-sleep function for improved battery life.
- Trip mode function: resettable totalizer function can operate as an economical, simple fluid inventory control system.
- Non-resettable totalizer function: shows total fluid flow through the meter from day one and is unaffected by low or dead batteries.
- All new handle: aluminum body with lightweight ergonomic soft grip handle for comfort and precision balance.
- Unique ¼ turn manual tip: effective and very fast, high flow, no splash and very easy to use.
- Flange coupling at the control valve: eliminates the use of connection adaptors which can become loose, providing superior integration of the meter and handle.
- Swivel cover protects automobiles from nicks and scratches.
- Large ported swivel: for comfort even at high pressures, includes durable inlet filter which protects meter from debris.
- Trigger lock button: prevents accidental dispense and also allows the gun to be locked in the open position.
- Affordable reparability: ERC can be changed easily.





AVAILABLE MODELS

Model	Extension Type & Nozzle		
3330-162	Rigid	Auto	3332-098
3330-161	Flex	Auto	3332-095
3330-160	Flex 90	Auto	3332-094
3330-167	Flex-memory	Auto	3332-099
3330-157	Rigid	1/4 turn - OIL	3332-091
3330-168	Flex	1/4 turn - OIL	3332-100
3330-158	Flex 90	1/4 turn - OIL	3332-092
3330-159	Flex-memory	1/4 turn - OIL	3332-093
3330-169	Rigid	1/4 turn - ATF	3332-101
3330-171	Flex	1/4 turn - ATF	3332-103
3330-170	Flex 90	1/4 turn - ATF	3332-102
3330-172	Flex-memory	1/4 turn - ATF	3332-104

See Dispense nozzle OD for important details

CONTROL
HANDLES

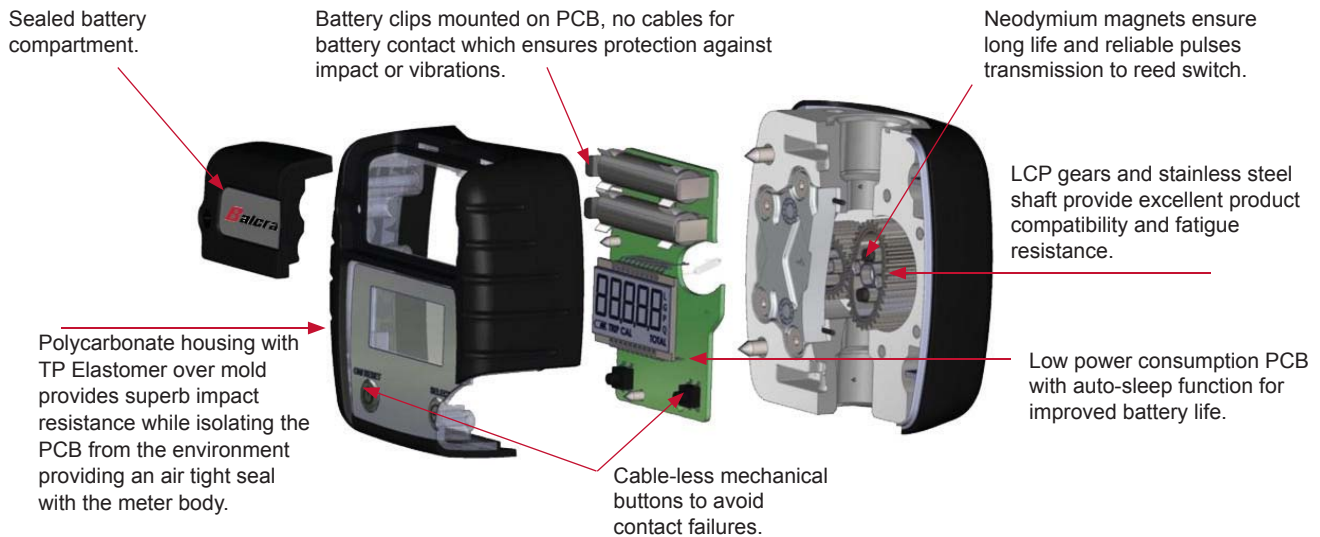
SPECIFICATIONS

Units of measure	Batch: Quarts, Pints, Gallons, and Liters (in 0.01 increments).
Accuracy	+/- 0.5% of reading (lubricating oils)
Flow Range	0.26-8 gal/m (1-30 l/m)
Max pressure	1,450 psi (100 bar)
Swivel inlet	1/2" NPT(F)
Dispense Nozzle OD	Auto = 0.605" Manual 1/4 turn for OIL = 0.705" Manual 1/4 turn for ATF = 0.315" Verify ID of ATF fill port for compatibility
Operating temp	14°F -160°F (-10°C - 70°C)
Weight	3.2 lb (1.55 kg)
Battery	2 x 1.5v alkaline "AAA"
Compatible Fluids	Lubricants (up to SAE 140), ATF, Anti-freeze (Glycol), and Anti-freeze water solution
Wetted Materials	Liquid Crystal Polymer (LCP), Aluminium, Buna-N™, Zinc Plated Steel, Stainless Steel, Neodymium, and Brass

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3095
Accessories pg.	98

Control Handles | DR Meter & Nozzles



CONTROL HANDLES



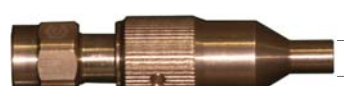
DR METER

SPECIFICATIONS



Model	Inlet	Units of Measure	Compatible fluids
3120-091	1/2" NPT(F) Flange	Liters, Gallons, Quarts, and Pints	Oil, Glycol, and coolant solutions.

NOZZLES (for use with the DR handles)

Item	Inlet	Tip OD	Max. Flow	Nozzle	
 0.605 OD	3332-097	1/4" BSPP*	0.605" <i>Verify ID of ATF fill port for compatibility.</i>	2.1 gal/m (8 l/m)	Auto
 0.705 OD	3332-096	1/4" BSPP*	0.705" <i>Verify ID of ATF fill port for compatibility.</i>	3.7 gal/m (14 l/m)	1/4 Turn Manual for OIL ports
 0.315 OD	3332-105	1/4" BSPP*	0.315" <i>Verify ID of ATF fill port for compatibility.</i>	3.7 gal/m (14 l/m)	1/4 Turn Manual for ATF ports

* for mounting to old style extensions use adapter 833197

Control Handles | DR Meter Extensions

DR EXTENSIONS & NOZZLES

Verify ID of ATF fill port for compatibility.

	Model	Inlet	Ext. Type	Nozzle
	3332-098	1/2" NPT(M)	Rigid 60	Auto Tip OD = 0.605"
	3332-095	1/2" NPT(M)	Flex	Auto Tip OD = 0.605"
	3332-094	1/2" NPT(M)	Flex 90	Auto Tip OD = 0.605"
	3332-099	1/2" NPT(M)	Flex with Metal Memory	Auto Tip OD = 0.605"
	3332-091	1/2" NPT(M)	Rigid 60	For OIL ports 1/4 Turn Manual Tip OD = 0.705"
	3332-100	1/2" NPT(M)	Flex	For OIL ports 1/4 Turn Manual Tip OD = 0.705"
	3332-092	1/2" NPT(M)	Flex 90	For OIL ports 1/4 Turn Manual Tip OD = 0.705"
	3332-093	1/2" NPT(M)	Flex with Metal Memory	For OIL ports 1/4 Turn Manual Tip OD = 0.705"
	3332-101	1/2" NPT(M)	Rigid 60	For ATF ports 1/4 Turn Manual Tip OD = 0.315"
	3332-103	1/2" NPT(M)	Flex	For ATF ports 1/4 Turn Manual Tip OD = 0.315"
	3332-102	1/2" NPT(M)	Flex 90	For ATF ports 1/4 Turn Manual Tip OD = 0.315"
	3332-104	1/2" NPT(M)	Flex with Metal Memory	For ATF ports 1/4 Turn Manual Tip OD = 0.315"

CONTROL
HANDLES



Introducing the new MR (Mechanical Registry) meter from Balcrank

The Balcrank mechanical-metered control valves have been specifically designed to measure and dispense volumes of all kinds of synthetic and mineral oils and to lead the competition in technology and innovation. Balcrank manufactures a full range of rotary-piston mechanical meters, graduated in Quarts, Gallons or Liters to cover the needs of production lines, when filling engines, gear boxes and transmissions; or when dispensing lubricants in fleet service shops, off-road vehicles, mining, or marine equipment maintenance facilities.

Our line of mechanical meters is especially suitable for tough jobs and extreme environmental conditions.

ROBUST

- Polycarbonate based integral register housing and single molded pointer knob to guarantee maximum integrity of the meter against drops and impacts.
- One piece molded register housing gives extra protection against humidity. The meter is ideal for outdoor use.
- The one-piece molded pointer knob, which encloses a very robust and unique reset mechanism, is protruding for easy resetting and reading, but is resistant to impacts.
- The reset mechanism incorporates a safety clutch for integrity in case of wrong reset turn action.
- A simple and easy to read dial with two pointers and the mechanical totalizer can be read at any time regardless of the ambient temperature or the direct sun action.
- Long durability due to the full metal meter execution.

ACCURATE

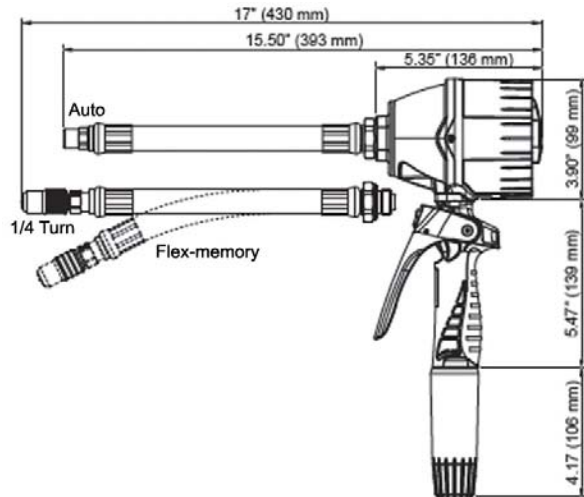
- No calibration required. Precision machined metering chamber keeping tight tolerances.
- High-accuracy to a large viscosity range (with high viscosity lubricants and/or extreme temperatures).
-

EXTRA PERFORMANCE

- Larger measuring chamber increases up to 33% delivery rate compared to other rotary-piston mechanical meters
- 5-digit totalizer keeps lifetime record of fluid dispensed.
- Totalizer measure is readable with knob placed at zero.
- Large port, ball bearing, inlet swivel included
- Easy access fluid inlet screen included at swivel.
- Included swivel hose-end cover protects vehicle or machine surfaces from scratches.
- Easy access for service of the rotary-piston mechanism
- Trigger lock button prevents accidental control valve opening and allows the control valve to be locked in the open position for large volumes dispense.
- Cam & Piston valve design optimized for superb control and minimum flow resistance
- Ergonomically designed grip handle for optimum comfort.



DIMENSIONS



AVAILABLE MODELS

Model	Extension Type & Nozzle			U/M
3330-185	Rigid	Auto	3332-098	Qt
3330-186	Flex 90	Auto	3332-094	Qt
3330-187	Flex	Auto	3332-095	Qt
3330-188	Flex Memory	Auto	3332-099	Qt
3330-189	Rigid	1/4 turn-OIL	3332-091	Qt
3330-190	Flex 90	1/4 turn-OIL	3332-092	Qt
3330-191	Flex	1/4 turn-OIL	3332-100	Qt
3330-192	Flex Memory	1/4 turn-OIL	3332-093	Qt
3330-193	Rigid	1/4 turn-ATF	3332-101	Qt
3330-194	Flex 90	1/4 turn-ATF	3332-102	Qt
3330-195	Flex	1/4 turn-ATF	3332-103	Qt
3330-196	Flex Memory	1/4 turn-ATF	3332-104	Qt
3330-173	Rigid	Auto	3332-098	L
3330-174	Flex 90	Auto	3332-094	L
3330-175	Flex	Auto	3332-095	L
3330-176	Flex Memory	Auto	3332-099	L
3330-177	Rigid	1/4 turn-OIL	3332-091	L
3330-178	Flex 90	1/4 turn-OIL	3332-092	L
3330-179	Flex	1/4 turn-OIL	3332-100	L
3330-180	Flex Memory	1/4 turn-OIL	3332-093	L
3330-181	Rigid	1/4 turn-ATF	3332-101	L
3330-182	Flex 90	1/4 turn-ATF	3332-102	L
3330-183	Flex	1/4 turn-ATF	3332-103	L
3330-184	Flex Memory	1/4 turn-ATF	3332-104	L

Verify ID of ATF fill port for compatibility.

SPECIFICATIONS

Flow Range	0.5-5.3 gal/min (2-20 l/min)
Max pressure	1,450 psi (100 bar)
Dispense Nozzle OD	Auto = 0.605" Manual 1/4 turn for OIL = 0.705" Manual 1/4 turn for ATF = 0.315" Verify ID of ATF fill port for compatibility
Swivel inlet:	1/2" NPT(F) Swivel
Operating temp	110 to 160 °F (-23 to 70 °C). Suitable for extreme temperature conditions
Weight	3.75 lb (1.7 kg)
Compatible Fluids	Low to high viscosity lubricants, ATF, and Antifreeze (Glycol)
Wetted Materials	Aluminum, stainless steel, zinc alloy, Buna-N™, zinc plated steel, and brass.

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3096
Accessories pg.	147



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.



3332-005

Protective elastomer guards against shock damage of meter body and dial face. Fits Classic Series handles

AVAILABLE MODELS

Model	Extension Type & Nozzle		Unit of Measure
3331-004	Straight	Semi-Auto	16 qt
3331-001	Straight	Semi-Auto	60 qt
3331-006*	Straight	Semi-Auto	60 qt
* Anti-freeze (Glycol) Compatible			
3331-003	Straight	Semi-Auto	60 gal
3331-015	Straight	Semi-Auto	16 liter

SPECIFICATIONS

Units of measure	Gallon, Liter, and Quart
Accuracy	+/- 3% of reading (lubricating oils)
Flow Range:	0.4-4 US gal/m (1.5-15 l/m)
Max pressure:	1,000 psi (70 bar)
Swivel inlet:	1/2" NPT
Operating temp:	32°F -110°F (0°C - 45°C)
Weight:	3.2 lb (1.5 kg)
Compatible Fluids	Lubricants, ATF and Anti-freeze (Glycol) with a maximum viscosity of SAE 140
Wetted Materials	Aluminum, steel, Buna-N™

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3035
Accessories pg.	102



3320-022



3320-024

FEATURES

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

AVAILABLE MODELS

Model	Extension Type & Nozzle		
3330-026	Flex	Auto	3332-095
3330-025	Flex 90	Auto	3332-094
3330-022	Rigid	1/4 turn - OIL	3332-091
3330-023	Flex 90	1/4 turn - OIL	3332-092
3330-024	Flex-memory	1/4 turn - OIL	3332-093

Verify ID of ATF fill port for compatibility.

SPECIFICATIONS

Flow Range	0.26-8 gal/m (1-30 l/m)
Max pressure	1,450 psi (100 bar)
Swivel inlet:	1/2" NPT(F) Swivel
Operating temp	14°F -158°F (-10°C - 70°C)
Weight	3.2 lb (1.55 kg)
Compatible Fluids	Lubricants, gear oil, automatic transmission, Anti-freeze (Glycol)
Wetted Materials	Aluminum, Zinc Plated Steel, and Buna-N™

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3008
Accessories pg.	147



Introducing the new HF (High Flow) Metered Control Handle from Balcrank

The Balcrank electronic-meter control valves have been specifically designed to measure and dispense volumes of all kind of synthetic and mineral oils and to lead the competition in technology and innovation. Samoa manufactures a range of oval-gear electronic meters, which can be programmed to register in either liters, quarts, pints or gallons to cover the needs of fluid dispensing ranging in truck, fleet, off-road, mining and marine maintenance facilities.

ACCURACY

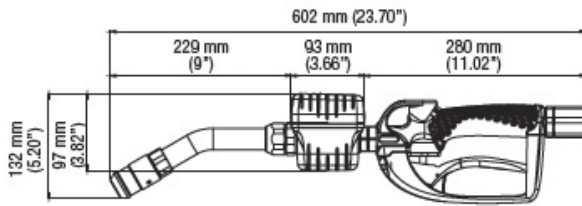
- No calibration required. Precision machined fluid chamber keeping tight tolerances together with individual wet test for performance and accuracy, guarantees accurate dispensing regardless the fluid viscosity, outside temperature and system pressure.
- Oval gear meter technology is adequate high count precision and low flow resistance.
- Multiple units of measure: liters, quarts, pints or gallons. Readout in 0,01 increments for precise fillings.
- Trip mode function: re-settable totalizer function can operate as an economical simple fluid inventory control system.
- Non-re-settable totalizer function
- Polycarbonate housing provides superb impact resistance for durability even in the toughest environments.
- Tough Thermo Plastic Elastomer boot surrounds the entire meter for even greater durability.
- Sealed battery compartment: battery clips mounted on PCB, no cables for battery contact that ensures protection against impact or vibrations.
- Fluid chamber is isolated from electronic chamber to prevent leaks.
- Extensively and rigorously field tested for reliable performance in all shop situations.
- Meter mounted to a Heavy Duty control valve.

TOUGHNESS AND EXTRA PERFORMANCE

- Flow rate up to 18.5 gpm (70 lpm) with a non-drip tip
- Maximum working pressure up to 1,450 psi (100 bar).
- Full metal control valve manufactured in durable aluminum die cast body to stand the toughest working conditions.
- High flow pressure balanced valve for comfortable use. Manufactured in brass for long life operation.
- Safety guard avoids accidental openings.
- Lockable valve lever for easy delivery of large volumes.
- High port (1" or 3/4") ball bearing inlet swivel, with easy removable filter.



DIMENSIONS



FEATURES

High Flow Control Handle is designed for service where larger volume deliveries are required.

- High volume rigid or flexible outlets with non-drip tip.
- Outlet with 3/4" or 1" BSPP (M) connection thread and bonded seal to assure a leak free operation.
- Used where metered fast delivery is required
- Ideal for bulk fill, transfer, and high flow dispense
- Heavy duty rigid design

APPLICATIONS

- High volume lubricants dispensing and bulk oil transfer on busy truck garages
- Mining and construction vehicles
- Lube and service trucks
- Manufacturing plants

AVAILABLE MODELS

3330-197	Rigid - Metered	3/4" BSPP (F) Inlet
3330-198	Flex - Metered	3/4" BSPP (F) Inlet
3330-199	Rigid - Metered	1" BSPP (F) Inlet
3330-200	Flex - Metered	1" BSPP (F) Inlet

SPECIFICATIONS

Units of measure	Batch: Liters, quarts, pints, gallons
Accuracy	+/-0,5% of reading
Flow Range	0.26-18 gal/min) (2-70 l/min)
Max pressure	1,450 psi (100 bar)
Swivel inlet:	3/4" & 1" BSPP (F) Inlet
Operating Temp	-10 to 158 °F (-23 to 70 °C)
Weight	4.4 lbs (2kg)
Compatible Fluids	Lubricants, Diesel, Oil, ATF, Antifreeze, Gear Oil Maximum viscosity SAE 140
Wetted Materials	Liquid Crystal Polymer (LCP), aluminium, stainless steel, Buna-N™, zinc plated, steel, and brass

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3097-Handle SB3098-Meter
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Introducing the new HF (High Flow) Non-Metered Control Handle from Balcrank

The Balcrank mechanical-metered control valves have been specifically designed to measure and dispense volumes of all kinds of synthetic and mineral oils and to lead the competition in technology and innovation. Balcrank manufactures a full range of rotary-piston mechanical meters, graduated in Quarts, Gallons or Liters to cover the needs of production lines, when filling engines, gear boxes and transmissions; or when dispensing lubricants in fleet service shops, off-road vehicles, mining, or marine equipment maintenance facilities.

Our line of mechanical meters is especially suitable for tough jobs and extreme environmental conditions.

ACCURACY

- No calibration required. Precision machined fluid chamber keeping tight tolerances together with individual wet test for performance and accuracy, guarantees accurate dispensing regardless the fluid viscosity, outside temperature and system pressure.
- Oval gear meter technology is adequate high count precision and low flow resistance.
- Multiple units of measure: liters, quarts, pints or gallons. Readout in 0.01 increments for precise fillings.
- Trip mode function: re-settable totalizer function can operate as an economical simple fluid inventory control system.
- Non-re-settable totalizer function
- Polycarbonate housing provides superb impact resistance for durability even in the toughest environments.
- Tough Thermo Plastic Elastomer boot surrounds the entire meter for even greater durability.
- Sealed battery compartment: battery clips mounted on PCB, no cables for battery contact that ensures protection against impact or vibrations.
- Fluid chamber is isolated from electronic chamber to prevent leaks.
- Extensively and rigorously field tested for reliable performance in all shop situations.
- Meter mounted to a Heavy Duty control valve.

TOUGHNESS AND EXTRA PERFORMANCE

- Flow rate up to 18.5 gpm (70 lpm) with a non-drip tip
- Maximum working pressure up to 1,450 psi (100 bar).
- Full metal control valve manufactured in durable aluminum die cast body to stand the toughest working conditions.
- High flow pressure balanced valve for comfortable use.
- Manufactured in brass for long life operation.
- Safety guard avoids accidental openings.
- Lockable valve lever for easy delivery of large volumes.
- High port (1" or 3/4") ball bearing inlet swivel, with easy removable filter.





FEATURES

High Flow Control Handle is designed for service where larger volume deliveries are required.

- High volume rigid or flexible outlets with non-drip tip.
- Outlet with 3/4" or 1" BSPP (M) connection thread and bonded seal to assure a leak free operation.
- Ideal for bulk fill, transfer, and high flow dispense
- Heavy duty rigid design

APPLICATIONS

- High volume lubricants dispensing and bulk oil transfer on busy truck garages
- Mining and construction vehicles
- Lube and service trucks
- Manufacturing plants

AVAILABLE MODELS

3320-051	Rigid - Non-Metered	3/4" BSPP (F) Inlet
3320-052	Flex - Non-Metered	3/4" BSPP (F) Inlet
3320-053	Rigid - Non-Metered	1" BSPP (F) Inlet
3320-054	Flex - Non-Metered	1" BSPP (F) Inlet

CONTROL
HANDLES

SPECIFICATIONS

Max pressure	1,450 psi (100 bar)
Swivel inlet:	3/4" & 1" BSPP (F) Inlet
Compatible Fluids	Lubricants, Diesel, Oil, ATF, Antifreeze, Gear Oil Maximum viscosity SAE 140
Wetted Materials	Aluminum, Carbon Steel, Brass, and Buna-N™

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3097
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METERS (NOT for use with the DR handles)



Item	Fluid Type	Units of Measure
3120-001	Oil, ATF	Liters
3120-002	Gear Oil	Pint
3120-004	Oil, ATF	Gallon





NOZZLES (NOT for use with the DR handles)



Item	Inlet	Max. Flow	Nozzle
3332-085	3/8" NPT(F)	5.0 gal/m	Auto-Lock
3332-086	3/8" NPT(F)	5.0 gal/m	Auto
3332-090	3/8" NPT(F)	5.0 gal/m	Semi-Auto
3332-039	3/8" NPT(F)	15.5 gal/m	Semi-Auto High-Flo
3332-045	3/8" NPS(M)	15.5 gal/m	Semi-Auto High-Flo
3332-030	1/2" NPT(F)	15.5 gal/m	Semi-Auto High-Flo



EXTENSIONS & NOZZLES (NOT for use with the DR handles)

	Model	Inlet	Ext. Type	Nozzle
	3332-040	3/8" NPS(M)	Rigid	Auto
	3332-014	3/8" NPT(M)	Rigid	Auto
	3332-048	3/8" NPS(M)	Rigid	Semi-Auto
	3332-063	3/8" NPS(M)	Rigid	Semi-Auto Hi Flow
	3332-087	3/8" NPS(M)	Rigid	Auto-Lock
	3332-069	1/2" NPT(M)	Rigid	Semi-Auto
	3332-066	1/2" NPT(M)	Rigid	Auto-Lock
	832190	1/2" NPT(M)	Rigid	Manual
		3332-041	3/8" NPS(M)	Flex
3332-015		3/8" NPT(M)	Flex	Auto
3332-049		3/8" NPS(M)	Flex	Semi-Auto
3332-046		3/8" NPT(M)	Flex	Semi-Auto Hi Flow
3332-088		3/8" NPS(M)	Flex	Auto-Lock
3332-060		1/2" NPT(M)	Flex	Semi-Auto
832190		1/2" NPT(M)	Flex	Manual
		3332-043	3/8" NPS(M)	Flex 90
	3332-067	3/8" NPT(M)	Flex 90	Auto
	3332-051	3/8" NPS(M)	Flex 90	Semi-Auto
	3332-089	3/8" NPS(M)	Flex 90	Auto-Lock
	3332-070	1/2" NPT(M)	Flex 90	Semi-Auto
	831789	1/2" NPT(M)	Flex 90	Manual
	3332-044	3/8" NPS(M)	Straight	Auto
	3332-027	3/8" NPT(M)	Straight	Auto
	3332-052	3/8" NPS(M)	Straight	Semi-Auto
	3332-058	1/2" NPT(M)	Straight	Semi-Auto

Control Handles-Grease | Product Selection Matrix

CONTROL HANDLES



Features	Comfort Grip	Pro Series	Pro Series with Booster
Maximum Pressure	7,250 psi (500 bar)	5,000 psi (345 bar)	5,000 psi (345 bar)
High Volume Applications			
Light to medium duty	✓	✓	✓
Heavy duty	✓	✓	✓
Recommended Fluids	NLGI #2 Grease	NLGI #2 Grease	NLGI #2 Grease
Reference Data			
Catalog Pages	111	112	112

FEATURES

- Precision-machined, all steel handle and forged body provides reliable service
- Precise, proportional trigger action
- Balanced and knurled grip for less fatigue
- Easily repaired for extended life
- For use with pneumatic grease pumps with a 50:1 ratio or less



AVAILABLE MODELS

3310-030	Comfort Grip Grease Handle
3310-031	Grease Handle with 18" Whip Hose and Z-swivel
3310-032	Grease Handle with 36" Whip Hose and Z-swivel

CONTROL HANDLE SPECIFICATIONS

Max pressure	
Handle	7,250 psi (500 bar)
Whip Hose	5,000 psi (345 bar)
Z-Swivel	5,000 psi (345 bar)
Swivel inlet:	1/4" NPT(F)
Compatible Fluids	NLGI #2 Grease
Wetted Materials	Steel and Aluminum

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3094
Accessories pg.	113



3310-010

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
- For use with pneumatic grease pumps with a 50:1 ratio or less

AVAILABLE MODELS

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

SPECIFICATIONS

Max pressure	5,000 psi (345 bar)
Swivel inlet	1/4" NPT(M)
Compatible Fluids	NLGI #2 Grease
Wetted Materials	Steel

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3018
Accessories pg.	113



3310-009

FEATURES

The Premium Booster Series High Pressure Control Handle is designed for use as a standard control handle and as a "Booster" when extreme pressures are required. A single shot of lubricant is delivered when the trigger is pulled from the forward position and then immediately released. A continuous flow of lubricant is delivered when the trigger is pulled from the forward position and held against the body of the handle. When higher pressures are required, just squeeze or pump the trigger as needed up to approximately ten times to increase pressure up to 10,000 psi (689.5 bar).

AVAILABLE MODELS

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

SPECIFICATIONS

Max pressure	5,000 psi (345 bar) building to 10,000 psi (690 bar)
Swivel inlet	1/4" NPT(M)
Compatible Fluids	NLGI #2 Grease
Wetted Materials	

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3006
Accessories pg.	113

BEARING PACKER



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

FLEXIBLE EXTENSIONS

Flexible whip hose extensions with crimped 1/8" NPT(M) fittings on each end. For grease applications up to 5,000 psi (345 bar). Includes adapter to attach to grease control handle.



8390-002

18" Flexible Extension

8390-003

36" Flexible Extension

GREASE COUPLER

Standard super grip coupler. 10,000 psi (690 bar) working pressure. 1/8"-27 NPT threads.



5310-024

Grease Coupler
4-jaws

Z-SWIVELS



5310-018

- 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 packing
- 1/4" NPT(F) x 1/4" NPT(M)
- 6,000 psi (414 bar) working pressure



FEATURES

- Balcrank's Oil Bar Dispenser provides neat and convenient point-of-use dispensing for hand carried containers and is easily incorporated into any fluid inventory control system.
- This unit features
 - Up to four dispense points,
 - Heavy duty, Metal body
 - Drain with steel screen and 1/2" NPT hose connection
 - Includes: one spigot with anti-splash, anti-drip diffuser nozzle.
- Additional Spigots sold separately see below.

AVAILABLE MODELS

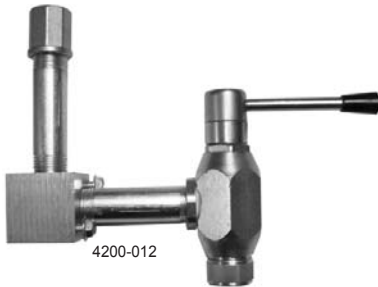
4200-014	Oil Bar Dispenser -1 Spigot
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OIL BAR SPECIFICATIONS

Recommended Fluids	Lubricants, gear oil, ATF, Hydraulic Fluid NOTE: fluids must be compatible with wetted materials
Max. Working Pressure	580 psi (40 bar)
Spigot Inlet	3/8" NPT(F)
Dimensions	13.25" deep x 28" wide x 35" high
Wetted Materials	Steel, Aluminum and Buna-N™

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4038
Accessories pg.	147



AVAILABLE MODELS

- 4200-011** Spigot Only
(Includes a bushing 3/8" FPT X 1/2" NPT for retrofitting old to new style Oil Bars)
- 4200-012** Straight Stem for Oil Bars 1/2" NPT(F)
- 4200-013** Gooseneck 3/4" NPT(M)
(for use with taper pumps)

CONTROL HANDLES

SPIGOT SPECIFICATIONS

Recommended Fluids	Lubricants, gear oil, ATF, Hydraulic Fluid NOTE: fluids must be compatible with wetted materials
Wetted Materials	Steel, Aluminum and Buna-N™

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4037
Accessories pg.	147



Photo courtesy of: Don Smith, Balcrank South East Regional Manager
Distributor: Atlantic Ford, Longs, SC

Fluid Inventory Control

FLUID INVENTORY CONTROL



Fluid Inventory Control | Product Selection Matrix



FLUID INVENTORY CONTROL

Features	Director Jr.	fusion 2.4 Central Controlled
Max. number of dispense points	10	48
Max. number of fluids	1	8
Fluid names		✓
Number of keypads	1	1
Job number validation		
Job numbers		✓
Integration to DMS system		
Simultaneous keypad operation		
Simultaneous dispense		✓
Max. number of tanks	N/A	8
Calculated tank declining balance	N/A	✓
Real-time tank monitoring	N/A	
Tank report over e-mail/SMS	N/A	
PIN code validation		✓
Operation PIN codes		✓
Max. number of PINs	N/A	50
Extensive user permission configuration	N/A	
Preset volumes	✓	✓
Hose Reel ID	✓	✓
Operator names		✓
Dispense from keypads	✓	✓
Dispense from PC		
Client/Network installer		
Max. number of transaction history		1,200
Print reports		✓
Print receipt		✓
Custom reports		
Bar Code/ Card reader/Dallas Key		
Wireless		✓
Reference Data		
Catalog Page	120	122

Fluid Inventory Control | Product Selection Matrix



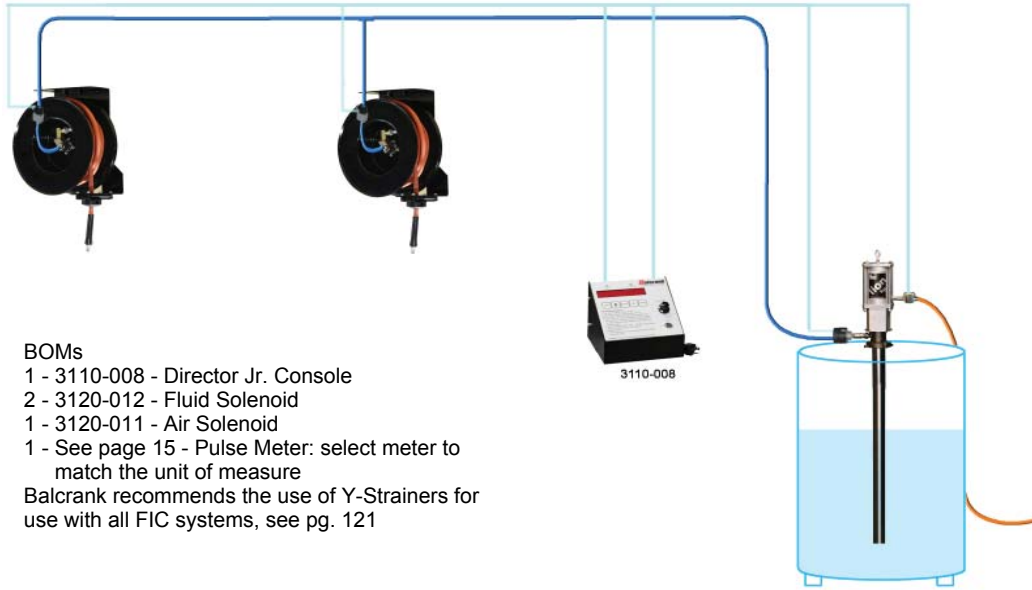
Features	<i>fusion 2.4</i> Distributed Controlled	Synergy
Max. number of dispense points	250	255
Max. number of fluids	16	Unlimited
Fluid names	✓	✓
Number of keypads	36	Unlimited
Job number validation	✓	✓
Job numbers	✓	✓
Integration to DMS system		ADP*
Simultaneous keypad operation	✓	✓
Simultaneous dispense	✓	✓
Max. number of tanks	16	Unlimited
Calculated tank declining balance	✓	✓
Real-time tank monitoring		✓
Tank report over e-mail/SMS	✓	✓
PIN code validation	✓	✓
Operation PIN codes	✓	✓
Max. number of PINs	250	Unlimited
Extensive user permission configuration		✓
Preset volumes	✓	✓
Hose Reel ID	✓	✓
Operator names	✓	✓
Dispense from keypads	✓	✓
Dispense from PC		✓
Client/Network installer	✓	v
Max. number of transaction history	Unlimited	Unlimited
Print reports	✓	✓
Print receipt		Local/Network
Custom reports	✓	✓
Bar Code/ Card reader/Dallas Key		✓
Wireless	✓	
Reference Data		
Catalog Page	124	126

* Other Dealer Management Systems (DMS) interfaces may be developed, talk with your regional manager.

FLUID INVENTORY CONTROL

Fluid Inventory Control | Director Jr.

Example of Mid-Range Director Jr. System



BOMs

- 1 - 3110-008 - Director Jr. Console
 - 2 - 3120-012 - Fluid Solenoid
 - 1 - 3120-011 - Air Solenoid
 - 1 - See page 15 - Pulse Meter: select meter to match the unit of measure
- Balcrank recommends the use of Y-Strainers for use with all FIC systems, see pg. 121

FLUID INVENTORY CONTROL



Director Jr. manages 1 fluid for up to 10 dispense points. Simple, easy to install and use, the Director Jr. has been in use since 1987. Typical customers include small garages, dealerships, and small equipment service.

FEATURES

- The Director Jr. is a keypad designed to monitor and control fluid dispenses in a workshop from a single central location
- The Director Jr. will also manage a solenoid valve to control the air powering the pump.
- 1 fluid to 10 stations
- Fluid measurement in pint, quarts, gallon, or liters
- Service fluids: motor oils, synthetics, ATF, gear oil, and Anti-freeze (Glycol)
- Totalizing feature for ease of fluid inventory record-keeping
- Large LED information display

MODEL AVAILABLE

3110-008	Director Jr. FIC Console
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COMPONENT SPECIFICATIONS


Function	Monitor and control fluid dispense
Requirements & Limitations	non-shielded 18 gauge wire up to 400' 16 gauge wire 400'-600'
Power	Input -110 VAC Output - 24 VAC

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3045
Accessories pg.	147


DIRECTOR JR.

Pulse Meters Converts fluid movement into a pulse count signal. Order one per pump: *select meter to match the unit of measure*


	Model #	Description	Component Specifications	
	3120-005	Liters	Flow	0.4 - 4 gal/m
	3120-006	Pints	Pressure	1,000 psi (70 bar)
	3120-007	Quarts	Connection	1/2" NPT(F/F)
	3120-008	Gallons	Accuracy	+/- 0.65%
	3120-016	Quarts, Anti-freeze (Glycol) - This model ONLY	Pulses	10 PPU
Service Bulletin	3003	Power	12, 24, 120 VAC	

Solenoid Valves

Air Provides for the remote shutdown of dispensing pumps from the fluid control console. *Order one per controlled pump*

	Model #	Description	Component Specifications	
	3120-011	Air Solenoid Valve	Pressure	200 psi (14 bar)
			Connection	3/8" NPT(F/F)
			Power	24 VAC


Fluid Stops the flow of fluids instantly at the preset quantity. Order one per dispensing reel/handle.

	Model #	Description	Component Specifications	
	3120-012	Fluid Solenoid Valve	Pressure	1,500 psi (103 bar)
			Connection	1/2" NPT(F/F)
			Power	24 VAC

Y-Strainer For filtering debris after the pump - 1,000 psi (69 bar) - all strainers have 60 mesh

	3120-051	1/2" NPT(F)	Pressure	1,000 psi (70 bar)
	3120-010	3/4" NPT(F)	Material	Ductile Iron
	3120-040	1" NPT(F)	Includes	Plug

Ready Light Alerts technician when fluid batch is available for dispensing.

	3120-031	Ready Light Alerts technician when fluid batch is available for dispensing.
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Fluid Inventory Control | *fusion 2.4* (CCS)

fusion 2.4 Wireless Fluid Inventory Control and Management Systems. *fusion 2.4* will track every drop of fluid in your facility, from the bulk tanks, hose reels to portable equipment. No dispense will be delivered without authorization.

Today's Challenges

- Multiple dispense points
- The need for simultaneous dispensing
- Variety of fluids including oil, ATF, grease, DEF, diesel fuel, windshield wash solvent, coolant
- Security
- Inventory reconciliation
- Networking
- PC Interface

The Solution The *fusion 2.4* Central Control System (CCS) provides precise metering and dispensing of any fluid for Mobile Lube, Quick Lube, Tire Centers and Transmission Center applications.

- ✓ Controls up to 48 dispense points
- ✓ Manages up to 8 fluids
- ✓ Secures operating levels with up to 50 user ID's
- ✓ Create paper ticket after every completed work order - no lost billings
- ✓ Manage simultaneous dispense locations - all dispenses are recorded
- ✓ *fusion 2.4* can manage tank levels; level is reported after each dispense.
- ✓ Attach dispense handle to the hose; plug the keypads - your ready to operate! It's that easy!
- ✓ Totally wireless, communicates directly between keypad and dispense valves - easily fits into any facility
- ✓ Multi-channel operation seeks open frequency - minimizes interference from outside sources.

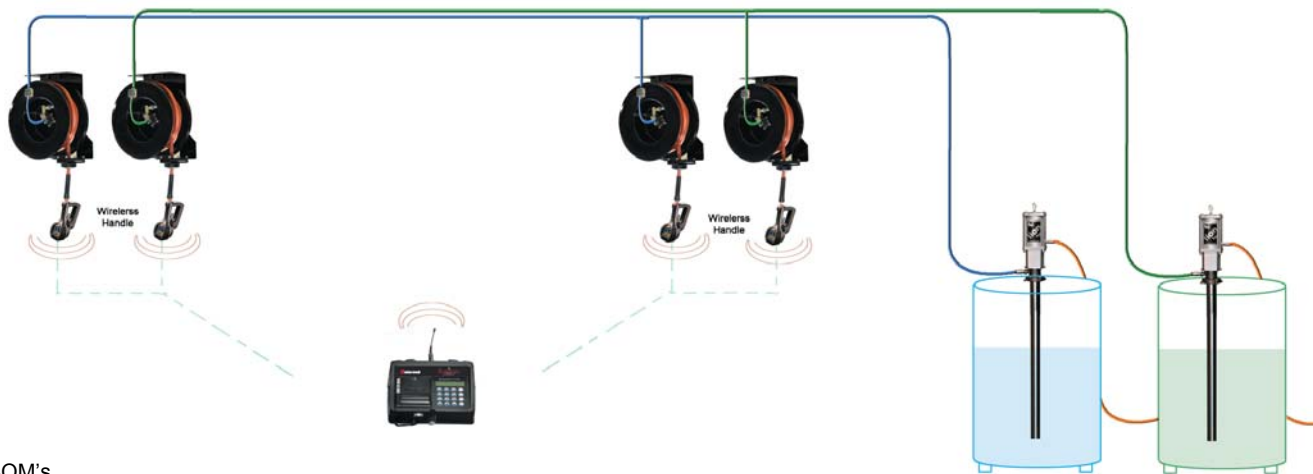


The Solution The *fusion 2.4* Distributed Control (DCS) System provides precise metering and dispensing of any compatible fluid for Maintenance Facilities, Large Dealerships, Large Fleets, Industrial Plants.

- ✓ Controls up to 250 outlets
- ✓ Manages up to 16 fluids
- ✓ Tracks up to 24 control handles per single keypad
- ✓ Secures operating levels with up to 250 user ID's
- ✓ Manage simultaneous dispense locations - all dispenses are recorded
- ✓ Unlimited work order stacking allows mechanic to select pre-loaded work orders - turn vehicles faster per day
- ✓ Create work order history & reports by ... Product, Vehicle, Customer, WO or Technician
- ✓ *fusion 2.4* can match your process: pre-authorized work order or technician dispense - manage and record all dispenses
- ✓ Assign special work order number for dedicated oil change bays allowing monitored after-hours fluid dispensing
- ✓ *fusion 2.4* mathematically manages fluid levels
- ✓ Mount up to 36 wireless zone keypads directly in the bays - maximizes technician productivity
- ✓ Totally wireless, communicates directly between keypads and dispense valves - easily fits into any facility
- ✓ Multi-channel operation seeks open frequency - Minimizes interference from outside sources

***fusion 2.4* installation must be performed by a Balcrank *fusion 2.4* Certified Distributor. Contact your Balcrank representative for additional information.**

Example of Mid-Range *fusion 2.4* CCS System



BOM's

1 - 3110-026 - Central Control Keypad

4 - 3331-021 - Wireless Handles

select the handle extension that best suit your needs, see page 125

Accessories may include:

3120-089 - 30 ft. Extension Antenna

3120-090 - Antenna Splitter

3120-059 - 50' RS-232 cable

3120-060 - 100' RS-232 cable



FEATURES

- Wirelessly controls and manages up to 8 fluids and 48 dispense locations
- Easy/fast entry of authorized PIN codes and job information on a Central Dispense Keypad
- Easy dispense and fast completion of work order
- Built in ticket printer produces a detailed written record for each work order dispensed
- Allows for future expansion of fluids and/or dispense locations
- Wireless *fusion 2.4* control handles are the building blocks of both the *fusion 2.4* CCS & DCS systems

MODEL AVAILABLE

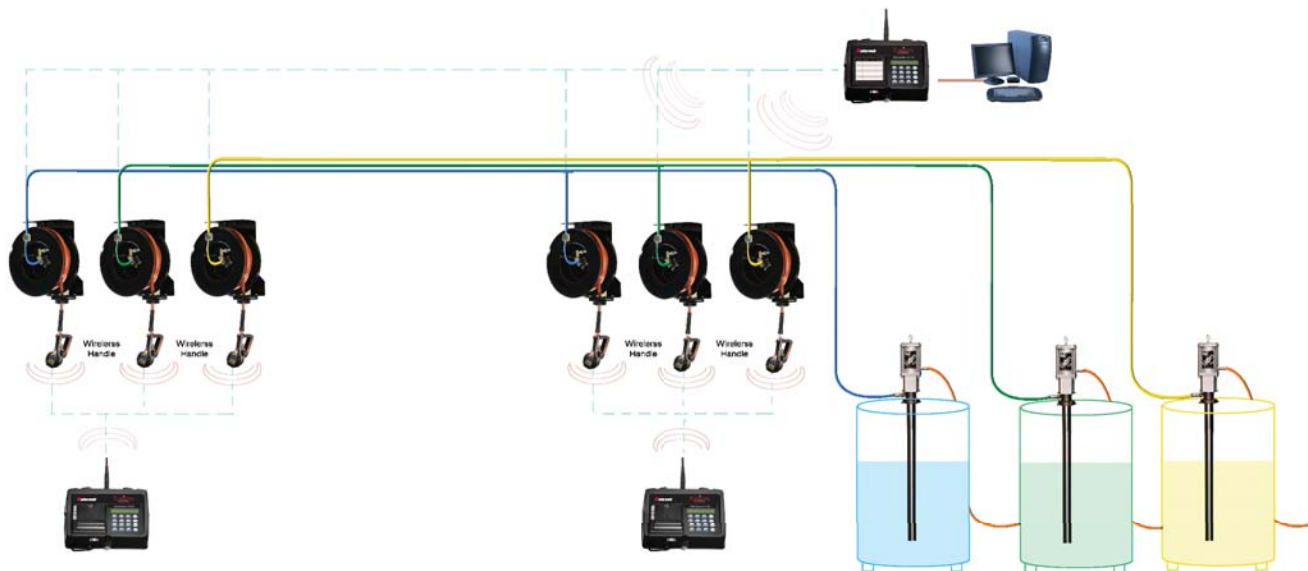
3110-026	Central Control Keypad
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COMPONENT SPECIFICATIONS

Function	Wirelessly monitor and control fluid dispense
Requirements & Limitations	<ul style="list-style-type: none"> • 2-way 902-928 MHz frequency hopping spread spectrum • Tank measurements are; quarts, liters, Pints, and gallons • Operating Temp.: 14°F - 140°F (-10°C - 60°C) (Indoor usage only) • <i>fusion 2.4</i> systems may not work with cordless phones, or other electronic devices operating within the same frequency range.
Power	Input-110 VAC, 50/60 Hz

Fluid Inventory Control | fusion 2.4 (DCS)

Example of Mid-Range fusion 2.4 DCS System



BOM's

- 1 - 3110-027 - Master Keypad
- 2 - 3110-028 - Dispense Keypads
- 6 - 3331-021 - Wireless Handles

select the handle extension that best suit your needs, see page 125

Accessories may include:

- 3120-089 - 30 ft. Extension Antenna
- 3120-090 - Antenna Splitter
- 3120-058 - 25' RS-232 cable
- 3120-059 - 50' RS-232 cable
- 3120-060 - 100' RS-232 cable

FLUID INVENTORY CONTROL

FEATURES

- Wirelessly controls and manages up to 16 fluids, 250 dispense locations, and 36 keypads
- Add fluid and/or dispense capacity at any time
- Easy/fast entry of authorized PIN codes and job information on a Wireless Dispense Keypad
- Easy dispense and fast completion of work order
- Generate reports by product, by vehicle, by customer, by work order, or by technician
- Monitor inventory levels from your PC
- Operator and Manager security levels

MODELS AVAILABLE

3110-027	Master Keypad
3110-028	Dispense Keypad
3110-029	Dispense Keypad w/Built in Printer

COMPONENT SPECIFICATIONS

Function	Wirelessly monitor and control fluid dispense
Requirements & Limitations	<ul style="list-style-type: none"> • 2-way 902-928 MHz frequency hopping spread spectrum • Tank measurements are; quarts, liters, Pints, and gals • Operating Temp.:14-140°F (-10°C to 60°C) (Indoor usage only) • fusion 2.4 systems may not work with cordless phones, or other electronic devices operating within the same frequency range.
Power	Input-110 VAC, 50/60 Hz



Fluid Inventory Control | fusion 2.4 RF Handles



FEATURES

The *fusion 2.4* RF Control Handle is equipped with RF (radio frequency) communications to communicate with a fluid management system keypad to get authorization and dispense information.

The meter can also be run as a standard Electronic Preset Meter (EPM). This is intended for start-up purposes or when the fluid management system is not in use.

COMPONENT SPECIFICATIONS

Function	To dispense fluid
	Min./Max. Flow 5-10 gal/m (19-38 l/m)
	Max. Operating Pressure 1,000 psi (70 bar)
	Meter Accuracy +/- 0.5% - oil +/- 1.5% Anti-freeze (Glycol)
Requirements & Limitations	LCD Display 5 char; 0.40"H x 0.20"W
	Units of Measurement Quarts, Pints, Gallons, and Liters
	Inlet/Outlet 1/2" NPT
	<i>fusion 2.4</i> control handles are compatible with Oil, ATF, Anti-freeze, windshield washer fluid, and diesel fuel.
Power	4 - "AA" batteries

MODELS AVAILABLE

(Requires extension-choose from below)

3331-021	Handle for all fluids
Handle Extensions	
3332-066	Rigid w/Auto Lock Nozzle
3332-067	Flex w/Auto Lock Nozzle
3332-083	Rigid Hi-Flow w/Semi-Auto Lock Nozzle
3332-084	Flex Hi-Flow w/Semi-Auto Lock Nozzle

fusion 2.4 Accessories

Remote Antenna

Allows for remote mounting of the antenna

3120-055	17' remote antenna
3120-056	30' remote antenna

Allows both the included antenna and a remote antenna to be connected to a single key pad

3120-057	Antenna splitter
-----------------	------------------

RS 232 Serial Cable - 9 pin

3120-059	RS 232 Cable 50'
3120-060	RS 232 Cable 100'

Ready Light Alerts technician when fluid batch is available for dispensing.



3120-031	Ready Light Alerts technician when fluid batch is available for dispensing.
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Y-Strainer For filtering debris after the pump - 1,000 psi (70 bar) - all strainers have 60 mesh



3120-051	1/2" NPT(F)	Pressure	1,000 psi (70 bar) @ 100°F (68°C)
3120-010	3/4" NPT(F)	Material	Ductile Iron
3120-040	1" NPT(F)	Includes	Plug

FLUID INVENTORY CONTROL

Synergy Fluid Monitoring Systems

Today, the needs of our customers are more complex, the fluids are many, and the challenges managing and accurately monitoring these fluids are difficult. Wireless has its limitations, communication problems, and risks with all electronic controls mounted in the handle. Synergy brings you real-time information with seamless communication without interruption.

Today's Challenges

- Multiple dispense points
- The need for simultaneous dispensing
- Variety of fluids including oil, ATF, grease, DEF, diesel fuel, windshield wash solvent, coolant
- Tank monitoring of both fresh and used oil and coolant
- PC and printer interface
- Security
- DMS interface
- Networking
- Inventory Reconciliation

The Solution

Synergy offers ease-of-use combined with the high performance you have come to expect from Balcrank. The Synergy provides precise metering and dispensing of any fluid for Automotive, Commercial, and Industrial applications.

- ✓ Controls up to 255 outlets
- ✓ Number of fluids are unlimited
- ✓ Number of keypads are unlimited
- ✓ Job number validation are unlimited
- ✓ Manage simultaneous dispense locations - all dispenses are recorded



Flexibility and Performance

Synergy is simple to use and offers outstanding performance. It is very easy to customize to your unique needs for control of oil, Anti-freeze (Glycol) and more. With Synergy, you will have full control of all liquid consumption for vehicle service and industrial applications.

Intelligent Modules with Easy Integration

The system uses intelligent modules, which offer a variety of adaptations in the software. Synergy can be installed in both existing and new facilities and with optional integration in financial DMS applications. Synergy systems are compatible with ADP applications. Other Dealer Management Systems (DMS) interfaces may be developed, talk with your regional manager. The system provides precise metering and dispensing of fluids. Multilingual, English, Spanish, and French.

Remote Access

The remote keypads are designed to be located in strategic places allowing remote entry of PIN ID, job or work order number, and amount of fluid to be dispensed at any given location. A Minimum of 1 keypad is required to operate a system, but there is no limit for the total number of keypads in the system. Any dispense can be initiated from any keypad.

System Control

The Multi-Point Dispense Module (MPDM) controls the amount of fluid ordered from any keypad or PC in the entire system. One module controls up to 4 outlets and offers a keyed manual override. Every outlet port can be given unique functions:

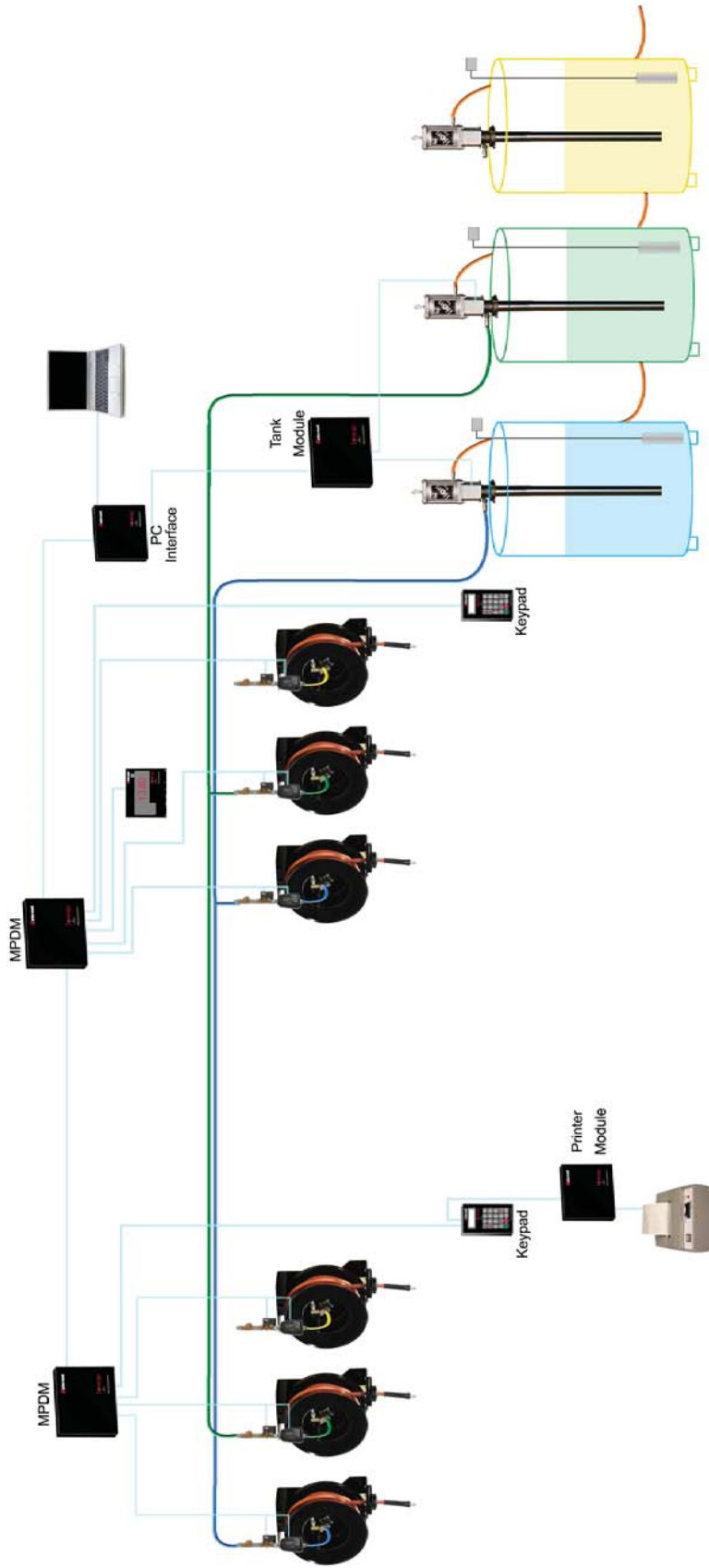
Industrial Batch Features

Synergy is the solution for increasing productivity and improving quality. Offering a number of batch dispensing solutions: it's easy to design a system to meet specific demands. Up to 7 volumes can be pre-programmed and 4 volumes can be dispensed simultaneously, with or without a PC.

- Pin code
- Volume
- Time-out
- Job number
- Group access
- Pulse per unit
- Display information
- Minimum/maximum volume

Synergy installation must be performed by a Balcrank Synergy Certified Distributor. Contact your Balcrank representative for additional information.

Example of Mid-Range Synergy System



- BOM's
- 1 - 3110-018 - Printer Interface Module
 - 1 - 3110-019 - PC Interface Module
 - 1 - 3110-020 - Tank Control Module
 - 1 - 3120-068 - LED Display
 - 2 - 3110-016 - Standard Keypads
 - 2 - 3110-017 - Multi-Point Dispense Module (MPDM)
 - 6 - Pulse Meter/Solenoid Valve Kits - select the meter to match the fluid type, See page 132
 - 3 - 3120-033 - Air Solenoids
 - 1 - 3120-069 - Ticket Printer



MULTI-POINT DISPENSE MODULE

Features

- The Multi-Point Dispense Module controls the amount of fluid ordered from any keypad or PC in the entire system
- One module controls up to 4 outlets and offers a keyed manual override
- Every outlet port can be given unique functions: PIN code, volume, time out, job number, group access, Pulse Per Unit, display information, Min./Max. volume

MODEL AVAILABLE

3110-017	Multi-Point Dispense Module
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COMPONENT SPECIFICATIONS

Function	Module controls 4 dispense points/solenoids
Requirements & Limitations	<ul style="list-style-type: none"> • 4 outlets/dispense points • Limit of 30' max. distance per dispense point from MPDM to meter valve • AC Power cord (not included), see part 832816
Power	Input-110 VAC, output - 24 VDC

KEYPAD

Features

- The standard keypads are designed to be located in strategic locations to allow remote entry of PIN, job number, fluid, etc.
- Can be equipped with Serial Port Kit for use with an external reader
- No limit for number of keypads in the system
- Any outlet can be opened from any keypad or reader

MODEL AVAILABLE

3110-016	Standard Keypad
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COMPONENT SPECIFICATIONS

Function	Module allows remote entry of PIN, job number, fluid, etc.
Requirements & Limitations	<ul style="list-style-type: none"> • Minimum 1 keypad required to operate a remote system • No limit for number of keypads in the system
Power	Input - 24 VDC, output - 24 VDC



FLUID INVENTORY CONTROL



PC INTERFACE MODULE

Features

- Interfaces Synergy system to the PC
- Includes basic software:
 - Allowing graphic visualization of the Synergy system components
 - Export system data to a simple text file
 - Synchronization of the system time with the PC
- Enhance system capabilities with Synergy Professional software, see page 127 for software upgrade, sold separately.
- Can run in background and accessed from remote keypads
- Operator interface, includes powerful database manager
- Easy integration with other software for automatic invoicing

MODEL AVAILABLE

3110-019 | PC Interface Module

COMPONENT SPECIFICATIONS

Function	Allows PC Interface
Requirements & Limitations	PC Requirements: <ul style="list-style-type: none"> • Runs under Windows 7/2000/ XP/ Vista • Intel Pentium 2-333Mhz 128Mb RAM • Must have free compatible 9-pin serial port. • Comes with Basic Software <ul style="list-style-type: none"> - Graphically view system - Set system time, Update tank levels - Simple data export
Power	Input - 24 VDC, output - 24 VDC



TANK CONTROL MODULE

Features

- The Tank Control Module is used to monitor up to 4 fresh and/or waste oil tanks per module using either high/low level sensors or analog probes. Control pumps - automatic start and stop
- Controls air solenoid valves
- Equipped with key switch for normal operation, emergency override and On/Off functions
- Controls waste pump/solenoid valves providing high level warning for Used Oil or low level warning and reorder point for fresh oil on PC

MODEL AVAILABLE

3110-020 | Tank Control Module

COMPONENT SPECIFICATIONS

Function	Controls tank monitoring
Requirements & Limitations	4 tanks per module Can only be used in the PC based system
Power	Input - 110 VAC, Output - 24 VDC



LED DISPLAY

Features

- Large display, easy to see from long distances
- The active outlet is shown in the lower left corner
- When equipped with a clock module or connected with a PC LED Display unit shows the current time when the system is not in use
- Displays the active dispense volume
- Can display tank volume when used in a system with a tank control module and an analog sensor.

NOTE: If the LED Display unit is used to display tank volume, it cannot be used to display dispenses, and can only display the volume of a single tank.

MODEL AVAILABLE

3120-068 | LED Display

COMPONENT SPECIFICATIONS

Function	Displays active dispense point & time
Requirements & Limitations	<ul style="list-style-type: none"> • Single extra port for a fluid solenoid valve/dispense point • Accommodates a clock module for a non-PC system
Power	Input - 24 VDC, Output - 24 VDC

FLUID INVENTORY CONTROL



PRINTER MODULE

Features

- Interfaces FIC system to the optional ticket printer
- Internal database stores user, PIN, and job information, when no PC is used
- Transaction details printed on the optional ticket printer.
- Can also be used in a PC system for job tickets anywhere in a system layout

MODEL AVAILABLE

3110-018 | Printer Module additional memory

COMPONENT SPECIFICATIONS

Function	Controls printability and
Requirements & Limitations	<ul style="list-style-type: none"> • Max. 912 transactions • 32 users • 8 tanks • Accommodates a clock module for a non-PC system • The non-PC system requires the Printer Module to create printouts of all transactions
Power	Input - 24 VDC, Output - 24 VDC



TANK SURVEILLANCE MODULE

Features

- The Tank Surveillance Module is used to monitor up to 4 fresh and/or waste oil tanks per module using either high/low level sensors or analog probes. Control pumps - automatic start and stop
- Controls up to 4 solenoids (air or fluid) and can be used for either standalone tank monitoring or integrated with a PC based system.
- Equipped with key switch for normal operation, emergency override and On/Off functions
- Green, red, & yellow LED's on the front cover provide current tank status at a glance.
 - Used Oil - warning lights indicate ready, high level, and full
 - Fresh oil - warning lights indicate ready, low level, and empty

MODEL AVAILABLE

3110-021	Controls Tank Monitoring
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COMPONENT SPECIFICATIONS

Function	Controls pumps, automatic start & stop
Requirements & Limitations	<ul style="list-style-type: none"> • 4 tanks per module • Can be used as a stand alone, in a non-PC based system, or in a PC based system
Power	Input - 110 VAC, Output - 24 VDC

FIC ACCESSORIES (Bar Code, Card, and Dallas Key Readers require a Serial Port Kit)



833019



833020



833021



833023

833019	Clock Module for LED or Printer Module
833022	Serial Port Kit
833020 + 833022	Bar Code Reader + Serial Port Kit
833021 + 833022	Card Reader + Serial Port Kit
833023 + 833022	Dallas Key Reader + Serial Port Kit

PROGRAMS & APPLICATIONS

Synergy



3120-072	Professional Software Full-featured PC database Easy system configuration Optional connection to DMS systems Variety of standard & customized reports
3120-108	Client Set-up - Additional server/client control from multiple PC's
3120-070	SMS - Tank Alerts via text messaging or E-mail
3110-022	Virtual keypad/Android phone (coming soon)
3110-023	DB Dock Service - Synchronize mobile database with main database
3120-111	ADP Professional Software- <i>Interface fees additional</i>
3120-112	ADP Interface Fee-Quarterly
3120-113	ADP Interface Fee-Yearly

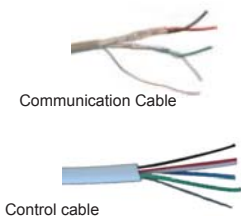
FLUID INVENTORY CONTROL

SOLENOID VALVES

Solenoid Valve Kits - High precision meter modules include pulse meter, and solenoid valve. Balcrank recommends the use of a Y-Strainer on the dispense side of the pump, see page. 170. *Order one per dispense point for use with Synergy*

	Model #	Description	Component Specifications	
	3120-073	Oil Anti-freeze (Glycol)	Pressure	725 psi (50 bar)
			Connection	1/2" NPT(M/M)
			Power	24 VDC
	Model #	Description	Component Specifications	
	3120-074	Grease	Pressure	7250 psi (500 bar)
			Connection	In: 3/8" NPT(M) Out: 1/8" NPT(M)
			Power	24 VDC
	Model #	Description	Component Specifications	
	3120-075	Diesel	Pressure	145 psi (10 bar)
			Connection	3/4" NPT(M/M)
			Power	24 VDC
	Model #	Description	Component Specifications	
	3120-077	Windshield Washer Fluid	Pressure	725 psi (50 bar)
			Connection	1/2" NPT(M/M)
			Power	24 VDC
	Model #	Description	Component Specifications	
	3120-078	DEF	Pressure	725 psi (50 bar)
			Connection	1/2" NPT(M/M)
			Power	24 VDC

COMMUNICATION & CONTROL



3128-050	Communication Cable 50 ft.
3128-100	Communication Cable 100 ft.
3128-150	Communication Cable 150 ft.
3128-250	Communication Cable 250 ft.
3129-050	Control Cable 50 ft.
3129-100	Control Cable 100 ft.
3129-150	Control Cable 150 ft.
3129-250	Control Cable 250 ft.

CABLE WIRE PREP KIT

Assists installers in providing premium quality wiring hook-ups. Kit includes cable jacket remover, wire stripper, and pin crimper.



832057	Wire Preparation kit Includes: 1-Wire Sheath Stripping Tool 1-Wire End Stripping Tool 1-Wire Ferrule Crimping Tool 1- Package Wire end ferrule- 18 AWG (500 pcs)
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TANK SENSORS *(switches provide low level/high level depending on float settings, analog provides actual volume)*

for use with Tank Control Module 3110-020 and Tank Surveillance Module 3110-021



3120-079	Level Sensor, Switch, Oil
3120-080	Level Sensor, Switch, Other Fluids
3120-081	2 Level Sensor, Switch, Oil
3120-082	2 Level Sensor, Switch, Other Fluids
3120-083	2 Level Sensor, Switch, Waste Oil
3120-084	Level Sensor, Analog, Oil

* Other fluids include: Anti-freeze (Glycol), WW Fluid, and DEF

TICKET PRINTER

3120-069	Optional Ticket Printer for use with Printer Module 3110-018
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PUMP SENTINEL

Features

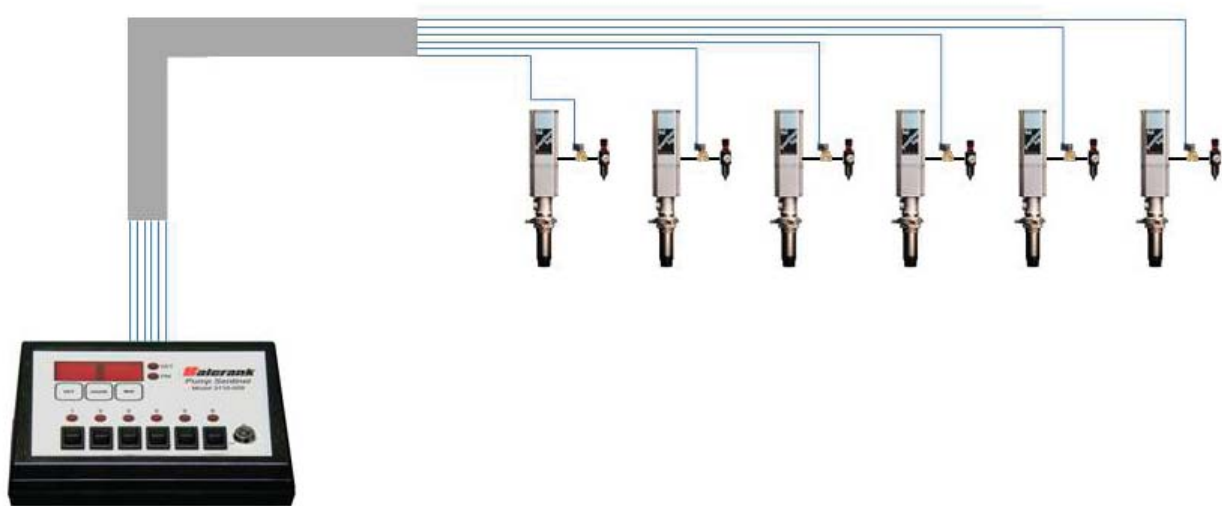
- Capable of preventing fluid theft by using switches to enable or disable up to six pumps
- Master key needed to turn system on
- 6' cable to run to junction box
- Small Console footprint: 6.5" L x 5" W x 3" H

AVAILABLE MODELS

3110-009	Pump Sentinel Console
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SPECIFICATIONS

Function	Prevents fluid spills during non-working hours by using a built in timer to turn off air supply to all pumps at a predetermined time each day
Requirements & Limitations	No. 18 AWG wire is recommended for all runs less than 400 feet. For runs from 400 to 625 feet, use wire no. 16 AWG or larger. Normally the 24VDC wiring can be run around the overhead structure of the building without using conduit.
Power	120 VAC, 60/50 Hz, 50 Watts
Service Bulletin	SB3048



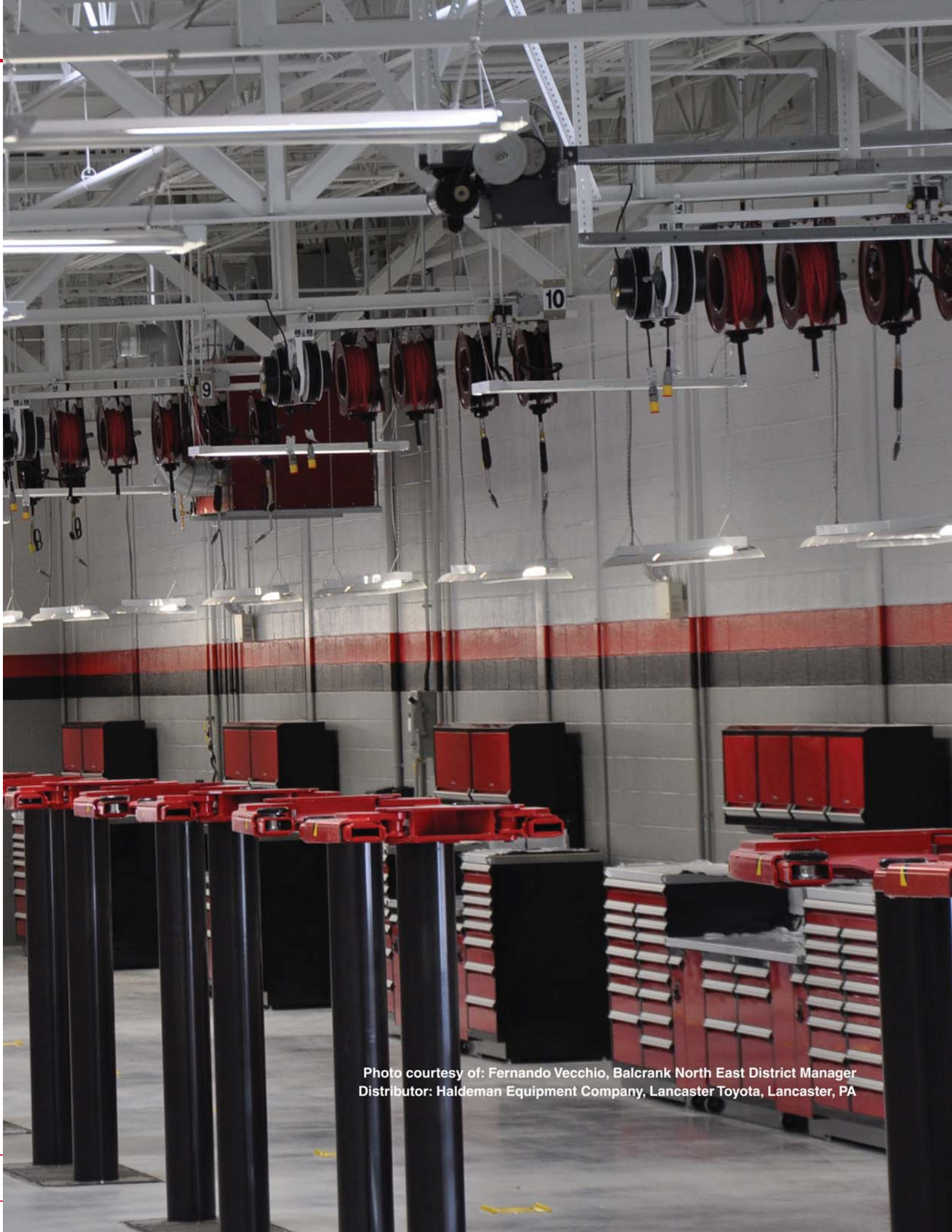


Photo courtesy of: Fernando Vecchio, Balcrank North East District Manager
Distributor: Haldeman Equipment Company, Lancaster Toyota, Lancaster, PA



Photo courtesy of: Doehrman Company, Inc.
Distributor: Doehrman Company, Inc., Camelback BMW, Phoenix, AZ

Used Fluid Equipment





FEATURES:

The Roughneck II Drain captures used fluids and transfers them to any bulk storage tank. The unit uses regular shop air and can be pressurized to allow for self-evacuating.

Features:

- Patented automatic fluid evacuation valve eliminates gravity draining, pouring, or the need for an evacuation pump
- 23 gallon storage tank; fewer drain intervals
- A low pressure safety valve prevents over pressurization of tank
- Clear evacuation hose; provides fast fluid evacuation and shows fluid levels in tank

Includes:

- 19.25" diameter catch basin that features an inlet filter screen and s-hooks for tools.
- 'Splashguard' bowl design prevents splattering, speeds drainage.
- Fully adjustable bowl height from 47" to 74".
- One touch operation. No ball valves required for evacuation of fluid.
- Roughneck outlet tube mounts securely into bulk used fluid reservoir.
- Seven foot evacuation tube provides sight gauge for fluid level.
- Tank handle makes maneuvering easy.
- Heavy gauge, all-steel construction guarantees long life.
- Tip-resistant balanced design.
- Large diameter rear rubber wheels and non-marking wide front casters maneuver the toughest shop floors.
- Quick Connect adapters sold separately, see pg 149.

AVAILABLE MODELS

4110-022	Roughneck II™ Used Oil Drain
4110-023	Roughneck II™ Used Anti-freeze Drain
4140-049	Dry Break Kit 3/4"
4140-048	Dry Break Kit 1"
4140-047	Cam-Lock Kit 3/4"
4140-021	Cam-Lock Kit 1"

SPECIFICATIONS

Air Pressure Operating Range	5-25 psi (.34-1.72 bar)
Tank Capacity	23 gal (87 l)
Telescoping Range	47"-74" (1.19-1.88 m)
Maximum Pressure	25 psi (1.72 bar)
Pressure Relief Valve	30 psi (2.07 bar)
Air Inlet Size (Quick-connect)	1/4" NPT
Fluid Outlet Nozzle	1" OD
Estimated Evacuation Time	3 - 4 min.
Wetted Materials	Zinc Plated Steel, Steel, Viton®, HDPE, and PVC

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4027
Accessories pg.	147



FEATURES:

Premium Drains capture used fluids and transfers them to any bulk storage tank using a dry-break or cam-lock kit (sold separately) and evacuation system.

Features:

- All steel tank and base design made from heavy-gauge steel, guaranteeing long life, made in the USA.
- Non-marking rubber wheels and 4" casters for easy maneuvering on any floor surface.
- Drainage bowl made from high strength poly to provide collapsible safety feature and to assist in preventing tank failure when object is lowered onto drainage bowl.
- Tip resistant balanced design.
- Prevents splattering and include filter to keep debris from entering tank and speed drainage.
- Powder coated for corrosion resistance with high quality powder coating. Drains are offered in black for used fluid and green for used Anti-freeze (Glycol).
- Quick Connect adapters sold separately, see pg 149

AVAILABLE MODELS

4110-012	Premium Duty Used Oil Drain
4110-017	Premium Duty Used Anti-freeze (Glycol) Drain
4140-049	Dry Break Kit 3/4"
4140-048	Dry Break Kit 1"
4140-047	Cam-Lock Kit 3/4"
4140-021	Cam-Lock Kit 1"

SPECIFICATIONS

Tank Capacity	23 gal (87 l)
Telescoping Range	47"-74" (1.19-1.88 m)
Air Inlet Size (Quick-connect)	1/4" NPT
Fluid Outlet	3/4" NPT
Wetted Materials	Zinc Plated Steel, Steel, Viton®, HDPE, and PVC

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4022
Accessories pg.	147



FEATURES:

Spillguard Drains capture used fluids and transfer to any bulk storage tank using a dry-break or cam-lock kit (sold separately) and evacuation system.

Features:

- Balcrank “wide track” 4” caster dolly set for easy maneuvering on any floor surface.
- All steel cover, container, and base design, made in the USA.
- Drainage bowl made from high strength poly to provide collapsible safety feature and to assist in preventing container failure when object is lowered onto drainage bowl.
- Drain bowl prevents splattering and includes filter to keep debris from entering container and speed drainage.
- Tip resistant balanced design.
- Fluid level gauge included.
- Powder coated for corrosion resistance with high quality powder coating. Drains are offered in black for used fluid and green for used Anti-freeze (Glycol).
- Quick connect adapters sold separately.

AVAILABLE MODELS

4110-010	Spillguard used oil drain
4110-018	Spillguard used Anti-freeze (Glycol) drain
4110-011	Spillguard used drumless oil drain
4110-019	Spillguard used drumless Anti-freeze (Glycol) drain
4140-049	Dry Break Kit 3/4”
4140-048	Dry Break Kit 1”
4140-047	Cam-Lock Kit 3/4”
4140-021	Cam-Lock Kit 1”

SPECIFICATIONS

Tank Capacity	16 gal (60.5 l)
Telescoping Range	0-27 in. (0-69 m)
Air Inlet Size (Quick-connect)	1/4” NPT
Fluid Outlet	3/4” NPT
Wetted Materials	Zinc Plated Steel, Steel, Viton®, HDPE, and PVC

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4020
Accessories pg.	147



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

FEATURES:

The Truck Drain comes pre-assembled allowing for immediate use. Designed to capture used fluids. Includes "used oil only" and "used antifreeze only" decals for fluid identification. Connects to a used oil evacuation system using a dry-break or cam-lock kit (sold separately) and evacuation system.

Features:

- Two fixed 8" wheels and one swivel caster on rear
- Double baffles with upper screen and a catch lip help prevent fluid from splashing out
- Tubular U-handle design for excellent maneuvering
- Powder coated for corrosion resistance with high quality powder coating. Drains are available in safety yellow.
- All steel design, made in the USA.
- Quick Connect adapters sold separately, see pg 149

AVAILABLE MODELS

4120-006	Truck Drain
4120-002	Evacuation kit with nipple and male dry break coupler available
4140-049	Dry Break Kit 3/4"
4140-048	Dry Break Kit 1"
4140-047	Cam-Lock Kit 3/4"
4140-021	Cam-Lock Kit 1"

SPECIFICATIONS

Tank Capacity	26 gal (98.4 l)
Fluid Outlet	1" NPT
Measurements	9"H x 24"W x 36"L
Wetted Materials	Zinc Plated Steel, Steel, Viton®, HDPE, and PVC

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4051
Accessories pg.	147



FEATURES:

The Pit Boss Rolling pit drain captures used fluids. Specifically designed to easily roll on guide tracks in the user's pit and connect to a used fluid evacuation system.

Features:

- Two anti-splash baffles, side splash guards and a metal catch screen.
- Front and rear drain ports.
- 3" diameter wheels which are mounted to accommodate a pit track width of 34" to 53".
- Tool shelf below the tank for pit service tools.
- Powder coated for corrosion resistance with high quality powder coating. Drain is available in safety yellow.
- All steel design, made in the USA.
- This unit requires the use of a dry-break or cam-lock kit Quick Connect adapters sold separately, see pg 149

AVAILABLE MODELS

4140-011	Rolling Pit Drain with Quick Connect Kit 4140-021
4140-020	Pit Drain
4140-049	Dry Break Kit 3/4"
4140-048	Dry Break Kit 1"
4140-047	Cam-Lock Kit 3/4"
4140-021	Cam-Lock Kit 1"

SPECIFICATIONS

Tank Capacity	34 gal (1287 l)
Adjustable height	2" (0.05 m)
Fluid Outlet	1" NPT
Wetted Materials	Zinc Plated Steel, Steel, Viton®, HDPE, and PVC

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4018
Accessories pg.	147

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 Quick Connect Kit
Includes ball valve with nipple, quick couplers, and a dust cap.



OIL LIFT DRAIN



Model	Description	Features: <ul style="list-style-type: none"> • Set Screw to hold adjustable funnel in place • Extends up to 64" (1.62 m) • Three way filling • Includes air vent and filler plug • Whip hose and metal spout standard
4110-006	Five gal Lift Oil Drain	
4111-001	Replacement funnel and tube assembly for 4110-006	
4111-002	Drain Adapter	

OIL LIFT DRAIN ACCESSORIES



Model	Description	Features: <ul style="list-style-type: none"> • Durable impact and heat resistant plastic • Used with any lift drain with a 7" or larger funnel Specifications: <ul style="list-style-type: none"> • W 23.5" x L 21.5" x H 5"
4140-006	Transmission Drain Pan	



831886	Replacement Drain Bowl	Features: <ul style="list-style-type: none"> • Black high density polyethylene construction • Splashguard design with Strainer • 19 1/4" diameter
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4310-006	Dolly Base for 4110-006 Oil Lift Drain	
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FEATURES

- Extract used oil and other fluids from any vehicle - safer, cleaner
- No more stripped drain plugs
- Great for cars, boats, motorcycles, and small engines
- Easily remove overfills
- Vacuum-charged unit is completely portable and easy to use
- Includes 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 gal (7.5 L)

AVAILABLE MODELS

4140-024	Oil Evacuator
4140-025	Oil Evacuator with Clear Dome and Mercedes adapter

SPECIFICATIONS

Tank capacity	17 gal (64.35 l)
Max. draining capacity	12 gal (45.4 l)
Air pressure for vacuum	100 psi (7 bar)
Depressurization time	2-2.5 minutes
Noise level	75 DBA
Suction rate	0.4-0.5 gal/m (1.5-1.9 l/m)
Suction hose	6.5 ft. (1.98 m)
Draining hose	6.5 ft. (1.98 m)
Dimensions	23"W x 15"D x 34"H

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB4045
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Used Fluid Equipment | Evacuation Packages

EVACUATION PACKAGES- USED OIL CF15

1121-017

Evacuation system for Used Oil disposal, designed for the CF15 series



- 1120-027 Aluminium CF15 Diaphragm Pump
- 8134-005 LP Connectivity Hose Assembly 5' x 3/8"
- 3260-035 F/R Auto Drain 3/8" NPT(F)
- 8249-005 MP Connectivity Hose Assembly 5' x 1/2"
- 8145-005 LP Suction Rated Hose Assembly 10' x 1/2"
- 4140-016 Dry Break Coupler 3/4" NPT(F)
- 3270-053 Bushing 3/4" MPT x 1/2" FTP
- 4411-025 Mounting Bracket for AODD Pumps

EVACUATION PACKAGES-USED OIL CF30

1121-018

Evacuation system for Used Oil disposal, designed for the CF30 series



- 1120-024 Aluminum CF30 Diaphragm Pump
- 8134-005 LP Connectivity Hose Assembly 5' x 3/8"
- 3260-035 F/R Auto Drain 3/8" NPT(F)
- 8281-005 MP Connectivity Hose Assembly 5' x 1"
- 8181-005 LP Suction Rated Hose Assembly 5' x 1"
- 4140-016 Dry Break Coupler 3/4" NPT(F)
- 4411-025 Mounting Bracket for AODD Pumps
- 4411-025 Mounting Bracket for AODD Pumps

- This unit requires the use of a dry-break or cam-lock kit Quick Connect adapters sold separately, see pg 149

EVACUATION PACKAGES-USED OIL

1121-001

Evacuation system for gear and Lubricants disposal, designed for the 1120-013S AODD pump.



- 1120-013S 1" Poly Diaphragm Pump
- 4140-015 1" Evacuation Kit
- Includes:
- 4411-016-Wall Mount Bracket
- 8134-005-Air Hose 5' X 3/8"
- 8261-005-Fluid Hose 5' X 3/4" (2)
- 3230-006-Fluid Ball Valve

TANK LEVEL SENSOR, AUTO-SHUT-OFF CONTROL

4520-001

Auto-shut Off Control

- Overfill Pump Control ✓
- Auto-shutoff ✓
- Non-electric ✓
- Sensing Tube ✓
- Pump Controller ✓



4520-002

- Auto-shut Off Control includes alarm

USED FLUID EQUIPMENT







Photo courtesy of: Doehrman Company, Inc.
Distributor: Doehrman Company, Inc., Tempe Schools, Tempe, AZ

Accessories & Supplies


ACCESSORIES & SUPPLIES

Accessories & Supplies | Air/Fluid - Bung Adapters










AIR/FLUID LINE ACCESSORIES

	3340-006	Short Stub Length, Single Chuck Ball Foot	1/4" NPT(F) 300 psi (21 bar)
	3340-009	Single Chuck Tire Inflator, Straight on single outlet chuck Includes: 12" hose, 10-90 psi gauge	1/4" NPT(F) 300 psi (21 bar)
	3340-010	Double Chuck Tire Inflator, Straight on double outlet chuck Includes: 12" hose, 10-90 psi	1/4" NPT(F) 300 psi (21 bar)
	3340-014	Radiator Water Bibb Thumb valve, Rubber spout	1/4" NPT(F) 300 psi (21 bar)

Coiled Air Hose for Air/Water 180 psi (12 bar)

	8137-030	Polyurethane Blue Air Service	30' x 3/8"
	8137-125	Nylon Blue Anti-freeze	25' x 3/8"

BUNG ADAPTERS

	4411-007N	Bung Adapter, Steel: Lion™ HP 5:1 W/ Pressure Relief Port
	4411-009N	Bung Adapter, Aluminum: Panther® HP & Tiger W/ Pressure Relief Port
	4411-009QX	Bung Adapter, Aluminum: Panther® HP & Tiger W/ Pressure Relief Port - 10 pieces
	4411-017N	Bung Adapter, Nickel Plated Stainless Steel: Tiger W/ Pressure Relief Port
	4411-021	Bung Adapter, Aluminum: LYNX: 1:1 & 2:1
	4411-022	Bung Adapter, Aluminum: 3:1 & 5:1
	4411-024	Bung Adapter, PVC: W/ Pressure Relief Port-2"
	4411-012	Bung Adapter Kit: for use with OD-1" suction tube
	4411-018N	Double Tap Bushing, Nickel Plated Stainless Steel: for use with Panther® HP W/ Pressure Relief

CAM LOCKS

COUPLERS-CAM LOCKS

Cam Lock Fittings allow for quick, secure connections of hoses to tanks or other hoses.
Cam Lock Couplers, nipples, and caps are available separately or in kits.



	Cam Lock COUPLER				Cam Lock CAP	
	THREAD SIZE	NPT(F)	NPT(M)		CAP SIZE	
	3/4"	4140-044	N/A		3/4"	4140-046
1"	4140-017	N/A	1"	4140-019		





	Cam Lock NIPPLE				CAM LOCK KIT	
	THREAD SIZE	NPT(F)	NPT(M)		Includes: Fluid Ball Valve, Cam-Lock nipple, coupler, and cap	
	3/4"	N/A	4140-045		3/4"	4140-047
1"	N/A	4140-018	1"	4140-021		

DRY BREAK

COUPLERS-DRY BREAK

For quick connection and detachment of fluid hoses - rated for vacuum or up to 3,000 psi fluid pressure



COUPLER-Dry Break 3,000 psi (207 bar)				NIPPLE-Dry Break 3,000 psi (207 bar)			
	THREAD SIZE	NPT(F)	NPT(M)		THREAD SIZE	NPT(F)	NPT(M)
	3/4"	4140-016	N/A		3/4"	4140-023	N/A
	1"	4140-050	N/A		1"	4140-051	N/A

COUPLER-Dry Break Kit 3,000 psi (207 bar)							
Includes: Dry Break nipple and coupler							
	3/4"	4140-048			1"	4140-049	
	3/4"	N/A	4140-018		1"	4140-021	



Accessories & Supplies | Couplers & Nipples

COUPLERS & NIPPLES



ARO SERIES

COUPLER				NIPPLE			
	THREAD SIZE	NPT(F)	NPT(M)		THREAD SIZE	NPT(F)	NPT(M)
	1/4"	3270-003	3270-119		1/4"	3270-005	3270-004
	3/8"	3270-120	3270-121		3/8"	3270-122	3270-123

LINCOLN SERIES

COUPLER				NIPPLE			
	THREAD SIZE	NPT(F)	NPT(M)		THREAD SIZE	NPT(F)	NPT(M)
	1/4"	3270-124	3270-125		1/4"	3270-126	3270-127

INDUSTRIAL SERIES

COUPLER - 3/8" BODY SIZE				NIPPLE - 3/8" BODY SIZE			
	THREAD SIZE	NPT(F)	NPT(M)		THREAD SIZE	NPT(F)	NPT(M)
	1/4"	3270-128	3270-129		1/4"	3270-138	3270-139
	3/8"	3270-130	3270-131		3/8"	3270-140	3270-141
1/2"	3270-132	3270-133	1/2"	3270-142	3270-143		

COUPLER - 1/2" BODY SIZE				NIPPLE - 1/2" BODY SIZE			
	THREAD SIZE	NPT(F)	NPT(M)		THREAD SIZE	NPT(F)	NPT(M)
	3/8"	3270-134	3270-135		3/8"	3270-144	3270-145
	1/2"	3270-136	3270-137		1/2"	3270-146	3270-147

AUTOMOTIVE STANDARD SERIES

COUPLER				NIPPLE			
	THREAD SIZE	NPT(F)	NPT(M)		THREAD SIZE	NPT(F)	NPT(M)
	3/8"	3270-002	3270-148		3/8"	3270-149	3270-001

Accessories & Supplies | Dolly Base-Drum Cart

DOLLY BASES



4310-005

4310-005 23-35 lb/5 gal



4310-001
4310-003

4310-001 120 lb/16 gal

4310-003 120 lb/16 gal wide track



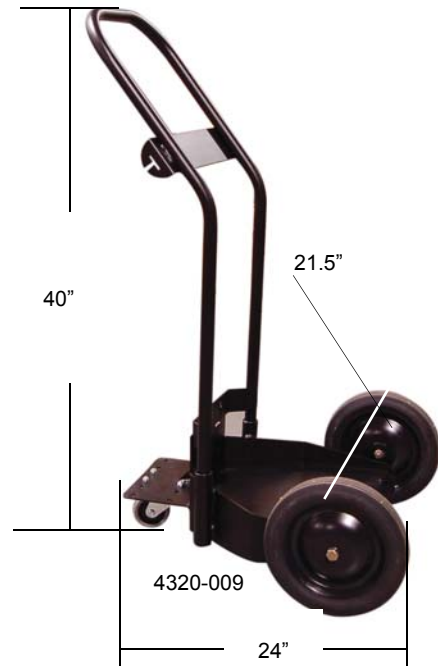
4310-004

4310-004 400 lb/55 gal heavy duty

DRUM CARTS

4320-009 120 lb/16 gal

4320-008 400 lb/55 gal heavy duty



DRUM COVERS

25-35 lb/5 gal Pail



4420-010	25-35 lb/5 gal Pail LYNX 55:1
4420-008	25-35 lb/5 gal Pail Panther® HP 50:1

120 lb/16 gal Drum



4420-011	120 lb/16 gal LYNX Grease 55:1
4420-005	120 lb/16 gal Panther® HP, Tiger®
7120-020	Mobile Drum Cover, 120 lb for Panther® HP 50:1-Center hole-designed for Grease (Mobile Drum Covers require Hold Down Rods)
4420-009	120 lb/16 gal Panther® HP Grease 50:1
7120-005	Hold Down Rod, 120 lb Mobile Drum Cover





400 lb/55 gal Drum



4420-007	400 lb/55 gal Off-Set
4420-004	400 lb for Panther® HP Grease 50:1
7120-012	Mobile Drum Cover, 400 lb for Panther® HP or Tiger 50:1-Offest hole-designed for Oil (Mobile Drum Covers require Hold Down Rods)
7120-023	Mobile Drum Cover, 400 lb for Panther® HP 50:1-Center hole-designed for Grease (Mobile Drum Covers require Hold Down Rods)
4420-003	400 lb for Lion™ HP Grease 50:1
7120-013	Mobile Drum Cover, 400 lb for Lion® HP 50:1-Center hole-designed for Grease (Mobile Drum Covers require Hold Down Rods)
7120-004	Hold Down Rod, 400 lb Mobile Drum Cover

Accessories & Supplies | Extensions (Conventional)

EXTENSIONS & NOZZLES CONVENTIONAL (NOT for use with the DR handles)





	Model	Inlet	Ext. Type	Nozzle
	3332-040	3/8" NPS(M)	Rigid	Auto
	3332-014	3/8" NPT(M)	Rigid	Auto
	3332-048	3/8" NPS(M)	Rigid	Semi-Auto
	3332-063	3/8" NPS(M)	Rigid	Semi-Auto Hi Flow
	3332-087	3/8" NPS(M)	Rigid	Auto-Lock
	3332-069	1/2" NPT(M)	Rigid	Semi-Auto
	3332-066	1/2" NPT(M)	Rigid	Auto-Lock
	832190	1/2" NPT(M)	Rigid	Manual
		3332-041	3/8" NPS(M)	Flex
3332-015		3/8" NPT(M)	Flex	Auto
3332-049		3/8" NPS(M)	Flex	Semi-Auto
3332-046		3/8" NPT(M)	Flex	Semi-Auto Hi Flow
3332-088		3/8" NPS(M)	Flex	Auto-Lock
3332-060		1/2" NPT(M)	Flex	Semi-Auto
832190		1/2" NPT(M)	Flex	Manual
		3332-043	3/8" NPS(M)	Flex 90
	3332-067	3/8" NPT(M)	Flex 90	Auto
	3332-051	3/8" NPS(M)	Flex 90	Semi-Auto
	3332-089	3/8" NPS(M)	Flex 90	Auto-Lock
	3332-070	1/2" NPT(M)	Flex 90	Semi-Auto
	832199	1/2" NPT(M)	Flex 90	Manual
	3332-044	3/8" NPS(M)	Straight	Auto
	3332-027	3/8" NPT(M)	Straight	Auto
	3332-052	3/8" NPS(M)	Straight	Semi-Auto
	3332-058	1/2" NPT(M)	Straight	Semi-Auto

Accessories & Supplies | Extensions (NEW Handles)




EXTENSIONS & NOZZLES (NEW MODEL HANDLES)

	Model	Inlet	Ext. Type	Nozzle
	3332-098	1/2" NPT(M)	Rigid 60	Auto Tip OD = 0.605"
	3332-095	1/2" NPT(M)	Flex	Auto Tip OD = 0.605"
	3332-094	1/2" NPT(M)	Flex 90	Auto Tip OD = 0.605"
	3332-099	1/2" NPT(M)	Flex with Metal Memory	Auto Tip OD = 0.605"
<hr/>				
	3332-091	1/2" NPT(M)	Rigid 60	For OIL ports 1/4 Turn Manual Tip OD = 0.705"
	3332-100	1/2" NPT(M)	Flex	For OIL ports 1/4 Turn Manual Tip OD = 0.705"
	3332-092	1/2" NPT(M)	Flex 90	For OIL ports 1/4 Turn Manual Tip OD = 0.705"
	3332-093	1/2" NPT(M)	Flex with Metal Memory	For OIL ports 1/4 Turn Manual Tip OD = 0.705"

Accessories & Supplies | (NEW Handles)

	Model	Inlet	Ext. Type	Nozzle
	3332-101	1/2" NPT(M)	Rigid 60	For ATF ports 1/4 Turn Manual Tip OD = 0.315"
	3332-103	1/2" NPT(M)	Flex	For ATF ports 1/4 Turn Manual Tip OD = 0.315"
	3332-103	1/2" NPT(M)	Flex 90	For ATF ports 1/4 Turn Manual Tip OD = 0.315"
	3332-104	1/2" NPT(M)	Flex with Metal Memory	For ATF ports 1/4 Turn Manual Tip OD = 0.315"

NOZZLES (for use with the DR handles)

	Item	Inlet	Tip OD	Max. Flow	Nozzle
 0.605 OD	3332-097	1/4" BSPP*	0.605" <i>Verify ID of ATF fill port for compatibility.</i>	2.1 gal/m (8 l/m)	Auto
 0.705 OD	3332-096	1/4" BSPP*	0.705" <i>Verify ID of ATF fill port for compatibility.</i>	3.7 gal/m (14 l/m)	1/4 Turn Manual for OIL ports
 0.315 OD	3332-105	1/4" BSPP*	0.315" <i>Verify ID of ATF fill port for compatibility.</i>	3.7 gal/m (14 l/m)	1/4 Turn Manual for ATF ports

* for mounting to old style extensions use adapter 833197

ACCESSORIES & SUPPLIES

Accessories & Supplies | Filter Regulators

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
- Maximum primary pressure 250 psi (17.24 bar)
- Optional automatic filter drain

Regulators:

- Heavy duty zinc die cast body
- Maximum primary pressure 250 psi (17.24 bar)
- Adjustment range 2-125 psi (.13-8.62 bar)
- Pressure gauge standard
- Two high flow 1/4" gauge ports

Lubricators:

- Heavy duty zinc die cast body
- Maximum primary pressure 250 psi (17.24 bar)
- 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 filter.
- Large filter element surface
- Heavy duty zinc die cast body
- Metal bowl with sight glass
- Maximum primary pressure 250 psi (17.24 bar)
- Adjustment range 2-125 psi (.13-8.62 bar)
- 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 (0-17.24 bar) Zinc die cast bowl
- 0-150 psi (0-10 bar) pressure rating
- Poly bowl Auto drain included

Regulators:

- Heavy duty zinc die cast body
- Maximum primary pressure 250 psi (17.24 bar)
- Adjustment range 2-125 psi (.13-8.62 bar)
- Pressure gauge standard
- Full flow gauge ports -1/4"

Lubricators:

- Heavy duty zinc die cast body
- 0-150 psi (0-10 bar) pressure rating
- Proportional oil delivery
- Precision needle valve
- Transparent sight dome for 360° visibility High strength polycarbonate bowl

RECOMMENDED FRL SIZING

MAX. SCFM	CHOOSE SERIES
15	1/4" NPT(F) (mini)
40	1/4" NPT(F)
60	3/8" NPT(F)
90	1/2" NPT(F)
100	3/4" NPT(F)

FILTER/REGULATORS

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 (10 bar) and flows of 15 SCFM.

Standard Series for Heavy Duty Lube Systems

- Heavy duty metal body and bowls.
- Sight glasses standard on metal bowls for visible liquid levels.
- Rated for air system pressures up to 250 psi (17.24 bar)
- Optional automatic drains available for filters.
- Available as individual units or assembled.
- In line mounting using standard piping and nipples.

FRL ACCESSORIES

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

FILTERS, REGULATORS, and LUBRICATORS (FRL)

1-PC PIGGY BACK FILTER REGULATOR

Best choice for pump air control. Filter prolongs wear life of pump, automatic drain removes moisture, regulator adjusts pump air supply pressure for best performance.



Model	Specifications	Mounting Bracket
3260-060	1/4" NPT(F) mini, poly bowl	3261-007
3260-033	1/4" NPT(F) Mini, zinc bowl	3261-007
3260-034	1/4" NPT(F)	3261-010
3260-035	3/8" NPT(F)	3261-010
3260-036	1/2" NPT(F)	3261-010
3260-037	3/4" NPT(F)	3261-011

AIR LINE FILTER

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



Model	Specifications	Mounting Bracket
3260-038	1/4" NPT(F) Mini	3261-008
3260-039	1/4" NPT(F)	3261-008
3260-040	3/8" NPT(F)	3261-008
3260-041	1/2" NPT(F)	3261-008
3260-042	3/4" NPT(F)	3261-008

2-PIECE PIGGY BACK FRL UNITS

Air Line Filter and Regulator with gauge allow for maximum air flow. Provides efficient water and particle removal and features an easy to read water level indicator.



Model	Specifications	Mounting Bracket
3260-059	1/4" NPT(F) mini, poly bowl	3261-007
3260-048	1/4" NPT(F) mini, zinc bowl	3261-007
3260-049	1/4" NPT(F)	3261-010 or 3261-008
3260-050	3/8" NPT(F)	3261-010 or 3261-008
3260-051	1/2" NPT(F)	3261-010 or 3261-008
3260-052	3/4" NPT(F)	3261-011 or 3261-009

AIR REGULATORS

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



Model	Specifications	Mounting Bracket
3260-028	1/4" NPT(F) Mini	3261-007
3260-029	1/4" NPT(F)	3261-010
3260-030	3/8" NPT(F)	3261-010
3260-031	1/2" NPT(F)	3261-010
3260-032	3/4" NPT(F)	3261-011

3-PIECE FRL UNITS

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



Model	Specifications	Mounting Bracket
3260-053	1/4" NPT(F) mini	3261-007
3260-054	1/4" NPT(F)	3261-010 or 3261-008
3260-055	3/8" NPT(F)	3261-010 or 3261-008
3260-056	1/2" NPT(F)	3261-010 or 3261-008
3260-057	3/4" NPT(F)	3261-011 or 3261-009





AIR LINE LUBRICATORS

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







Model	Specifications	Mounting Bracket
3260-043	1/4" NPT(F) mini, poly bowl	
3260-044	1/4" NPT(F)	3261-008
3260-045	3/8" NPT(F)	3261-008
3260-046	1/2" NPT(F)	3261-008
3260-047	3/4" NPT(F)	3261-009

FILLERS

	Model	Description	
	6110-017	Battery Filler	Features: <ul style="list-style-type: none"> • 2 ¼ qt. capacity • Bronze plastic finish
	6111-002	Replacement Spout for Battery Filler	Features: <ul style="list-style-type: none"> • Black plastic
	6110-010	Radiator Filler	Features: <ul style="list-style-type: none"> • 12 qt. capacity • Black plastic
	6330-005	Drain Pan	Features: <ul style="list-style-type: none"> • 3.25 gal capacity • 16" Dia x 4" deep • Galvanized metal

BOTTLES

	6420-008	Oil Bottle Kit	Features: <ul style="list-style-type: none"> • 1 qt. capacity per bottle • 8 bottles with spouts and dust caps • Metal basket
	6420-009	Metal Basket	Features: <ul style="list-style-type: none"> • Holds 8-1 qt. bottles
	6420-006	Plastic Bottle	Features: <ul style="list-style-type: none"> • 1 qt. capacity
	6420-007	Spout and Dust Cap	Features: <ul style="list-style-type: none"> • 1 spout and dust cap for 1 qt. bottles

ADAPTERS



Model	NPT (M x M)	Specifications
3270-033	1/2" x 1/2"	Brass 3,400 psi (234.4 bar)
Model	NPT (F x M)	Specifications
3270-007	1/8" x 1/2"	Brass 1,000 psi (68.9 bar)
3270-078	3/8" x 1/4"	Steel 3,000 psi (207 bar)
3270-082	3/8" x 3/8"	Steel 3,000 psi (207 bar)
3270-021	1/2" x 1/4"	Steel 3,000 psi (207 bar)
3270-081	1/2" x 3/4"	Steel 3,000 psi (207 bar)

BUSHINGS - STANDARD & REDUCING



Model	NPT (M x F)	Specifications
3270-076	1/4" x 1/2"	Steel 3,000 psi (207 bar)
3270-071	3/8" x 1/4"	Steel 3,000 psi (207 bar)
3270-077	3/8" x 3/8"	Steel 3,000 psi (207 bar)
3270-016	1/2" x 1/4"	Steel 3,000 psi (207 bar)
3270-052	1/2" x 3/8"	Steel 3,000 psi (207 bar)
3270-075	1/2" x 1/2"	Steel 3,000 psi (207 bar)
3270-070	1/2" x 3/4"	Steel 3,000 psi (207 bar)
3270-072	3/4" x 1/4"	Steel 3,000 psi (207 bar)
3270-074	3/4" x 3/8"	Steel 3,000 psi (207 bar)
3270-053	3/4" x 1/2"	Steel 3,000 psi (207 bar)
3270-073	1" x 1/2"	Steel 3,000 psi (207 bar)
3270-054	1" x 3/4"	Steel 3,000 psi (207 bar)

COUPLERS - STANDARD



Model	NPT (F x F)	Specifications
3270-084	1/4" x 1/4"	Steel 3,000 psi (207 bar)
3270-085	3/8" x 3/8"	Steel 3,000 psi (207 bar)
3270-086	1/2" x 1/2"	Steel 3,000 psi (207 bar)
3270-087	3/4" x 3/4"	Steel 3,000 psi (207 bar)
3270-088	1" x 1"	Steel 3,000 psi (207 bar)

Accessories & Supplies | Fittings

HEX NIPPLES STANDARD & REDUCING



Model	NPT (M x M)	Specifications
3270-009	1/8" x 1/8"	Steel 4,000 psi (275.6 bar)
3270-089	1/4" x 1/8"	Steel 3,000 psi (207 bar)
3270-041	1/4" x 1/4"	Brass 1,200 psi (82.3 bar)
3270-093	3/8" x 1/8"	Steel 3,000 psi (207 bar)
3270-090	3/8" x 1/4"	Steel 3,000 psi (207 bar)
3270-042	3/8" x 3/8"	Brass 1,000 psi (68.9 bar)
3270-094	1/2" x 1/4"	Steel 3,000 psi (207 bar)
3270-091	1/2" x 3/8"	Steel 3,000 psi (207 bar)
3270-043	1/2" x 1/2"	Brass 1,000 psi (68.9 bar)
3270-095	3/4" x 3/8"	Steel 3,000 psi (207 bar)
3270-092	3/4" x 1/2"	Steel 3,000 psi (207 bar)
3270-044	3/4" x 3/4"	Brass 1,000 psi (68.9 bar)
3270-096	1" x 3/4"	Steel 3,000 psi (207 bar)
3270-045	1" x 1"	Steel 3,000 psi (207 bar)

SQUARE HEADED PLUG



Model	NPT (M)	Specifications
3270-150	1/8"	Black Iron 2,000 psi (137.8 bar)
3270-151	1/4"	Steel 3,000 psi (207 bar)
3270-152	3/8"	Steel 3,000 psi (207 bar)
3270-153	1/2"	Steel 3,000 psi (207 bar)
3270-154	3/4"	Steel 3,000 psi (207 bar)
3270-155	1"	Steel 3,000 psi (207 bar)
3270-156	2"	Steel 3,000 psi (207 bar)

STREET ELBOW



Model	NPT (F x M)	Specifications
3270-157	1/4" x 1/4"	Steel 3,000 psi (207 bar)
3270-083	3/8" x 3/8"	Steel 3,000 psi (207 bar)
3270-158	1/2" x 1/2"	Steel 3,000 psi (207 bar)
3270-159	3/4" x 3/4"	Steel 3,000 psi (207 bar)

SWIVEL UNIONS 45°



Model	NPT(M) x NPS(F)	Specifications
3270-066	1/2" x 1/2"	Steel 3,500 psi (241.13 bar)
3270-062	3/4" x 3/4"	Steel 2,000 psi (137.8 bar)
3270-061	1" x 1"	Steel 2,000 psi (137.8 bar)

SWIVEL UNIONS RIGID



Model	NPT(M) x NPS(F)	Specifications
3270-097	1/8" x 1/4"	Steel 3,000 psi (207 bar)
3270-025	1/4" x 1/4"	Steel 5,000 psi (344.7 bar)
3270-098	1/4" x 3/8"	Steel 3,000 psi (207 bar)
3270-050	3/8" x 3/8"	Steel 3,000 psi (207 bar)
3270-046	3/8" x 1/2"	Steel 3,000 psi (207 bar)
3270-028	1/2" x 3/8"	Steel 3,000 psi (207 bar)
3270-027	1/2" x 1/2"	Steel 3,000 psi (207 bar)
3270-047	1/2" x 3/4"	Steel 2,250 psi (172.4 bar)
3270-099	3/4" x 3/4"	Steel 3,000 psi (207 bar)
3270-100	3/4" x 1/2"	Steel 3,000 psi (207 bar)
3270-101	3/4" x 1"	Steel 3,000 psi (207 bar)
3270-048	1" x 3/4"	Steel 2,000 psi (137.8 bar)
3270-102	1" x 1"	Steel 3,000 psi (207 bar)
Model	NPT(F) x NPS(F)	Specifications
3270-103	1/4" x 1/4"	Steel 3,000 psi (207 bar)
3270-106	3/8" x 1/4"	Steel 3,000 psi (207 bar)
3270-109	3/8" x 3/8"	Steel 3,000 psi (207 bar)
3270-104	1/2" x 1/4"	Steel 3,000 psi (207 bar)
3270-107	1/2" x 3/8"	Steel 3,000 psi (207 bar)
3270-110	1/2" x 1/2"	Steel 3,000 psi (207 bar)
3270-105	3/4" x 3/4"	Steel 3,000 psi (207 bar)
3270-108	1" x 1"	Steel 3,000 psi (207 bar)

SWIVEL UNIONS 90°



Model	NPT(F) x NPS(F)	Specifications
3270-111	1/4" x 1/4"	Steel 3,000 psi (207 bar)
3270-056	3/8" x 3/8"	Steel 4,000 psi (275.8 bar)
3270-112	3/8" x 1/2"	Steel 3,000 psi (207 bar)
3270-113	3/8" x 1/4"	Steel 3,000 psi (207 bar)
3270-055	1/2" x 1/2"	Steel 3,000 psi (207 bar)
3270-114	1/2" x 3/8"	Steel 3,000 psi (207 bar)
3270-058	3/4" x 3/4"	Steel 3,000 psi (207 bar)
3270-060	1" x 1"	Steel 3,000 psi (207 bar)
Model	NPT(M) x NPS(F)	Specifications
3270-115	1/4" x 1/4"	Steel 3,000 psi (207 bar)
3270-049	1/4" x 3/8"	Steel 5,000 psi (344.73 bar)
3270-050	3/8" x 3/8"	Steel 2,000 psi (137.8 bar)
3270-116	3/8" x 1/2"	Steel 3,000 psi (207 bar)
3270-117	3/8" x 1/4"	Steel 3,000 psi (207 bar)
Model	NPS(F) x NPS(F)	Specifications
3270-051	1/2" x 1/2"	Steel 3,500 psi (241.13 bar)
3270-118	1/2" x 3/8"	Steel 3,000 psi (207 bar)
3270-057	3/4" x 3/4"	Steel 2,500 psi (172.36 bar)
3270-059	1" x 1"	Steel 2,500 psi (172.36 bar)

Accessories & Supplies | Follower Plates

Z-SWIVEL *Installed between grease handle and fluid hose for freedom of motion*

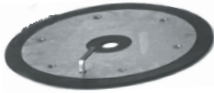


Model	NPS(F) x NPS(F)	Specifications
5310-018	1/4" x 1/4"	Steel 5,000 psi (344.7 bar)

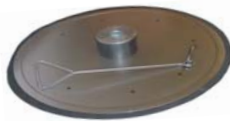
FOLLOWER PLATE (use weighted follower plates to eliminate air pockets in grease: ensuring proper pump function)



4440-007



4440-014



4440-009

4440-007	25-35 lb for Panther® HP 50:1,
4440-013	25-35 lb LYNX 55:1
4440-008	120 lb for Panther® HP 50:1,
4440-014	120 lb LYNX 55:1
4440-009	400 lb for Panther® HP 50:1
4440-012	400 lb for Lion™ HP 50:1

IN-LINE METER



3120-091



3120-002

Model	Inlet	Units of Measure	Compatible fluids
3120-091	1/2" NPT(F) Flange	Liters, Gallons, Quarts, and Pints	Oil, Glycol, and coolant solutions.
3120-001	1/2" NPT(F)	Liters	Oil, ATF
3120-002	1/2" NPT(F)	Pints	Gear Oil

Accessories & Supplies | Hand Pumps

HAND PUMPS *For use in piping systems to control pressure*

 <p>A long, slender hand pump with a black handle and a silver-colored barrel. It features a curved spout at the top and a long, thin suction tube extending from the bottom.</p>	<p>Model</p> <p>1300-001</p>	<p>Description</p> <p>Economy Barrel Pump</p>	<p>Features & Specifications</p> <p>For noncorrosive lubricants, solvents, agricultural, and industrial chemicals</p> <p>Includes:</p> <ul style="list-style-type: none"> • Suction tube • Bung adapter <p>Specifications:</p> <ul style="list-style-type: none"> • 16 Strokes per gal <p>Materials:</p> <ul style="list-style-type: none"> • Brass and Steel
 <p>A hand pump with a black handle and a red and black body. It has a long, black suction tube extending from the bottom. The handle is ergonomically shaped for grip.</p>	<p>Model</p> <p>1300-019</p>	<p>Description</p> <p>Piston Hand Pump</p>	<p>Features & Specifications</p> <p>For diesel, Lubricants, hydraulic oils, gear oils, antifreeze, degreasers, and windshield washer fluid</p> <p>Includes:</p> <ul style="list-style-type: none"> • Suction tube • Bung adapter <p>Specifications:</p> <ul style="list-style-type: none"> • 12 Strokes per gal <p>Materials:</p> <ul style="list-style-type: none"> • Polypropylene, stainless steel, and Buna-N®

Accessories & Supplies | Hand Pumps

HAND PUMPS *For use in piping systems to control pressure*



Model	Description	Features & Specifications
1300-021	Piston Hand Pump	<p>25-35 lb. drum size hand pump machine oils, gear oils, and Anti-freeze (Glycol)</p> <p>Includes:</p> <ul style="list-style-type: none"> • Suction tube • 4' fluid hose <p>Specifications:</p> <ul style="list-style-type: none"> • Pump has the capability of developing 5,000 psi fluid pressure



Model	Description	Features & Specifications
1300-022	High Flow Rotary Pump	<p>For noncorrosive lubricants, solvents, agricultural, industrial chemicals, diesel, Lubricants, hydraulic oils, gear oils, antifreeze, degreasers, and windshield washer fluid</p> <p>Includes:</p> <ul style="list-style-type: none"> • Suction tube • Bung adapter <p>Specifications:</p> <ul style="list-style-type: none"> • 1 gal per 9 revolutions <p>Materials:</p> <ul style="list-style-type: none"> • Cast iron, steel, Buna-N®

GREASE GUNS



	Model 5200-012	Description Professional Series Grease Gun	Features & Specifications Features: <ul style="list-style-type: none"> • Short stroke grip action for easy use • Heavy duty professional grade construction • Three way filling • Includes air vent and filler plug • 9' Whip hose and metal spout standard
	Model 5200-006	Description Lever Style Grease Gun	Features & Specifications Specifications: <ul style="list-style-type: none"> • 14 oz. capacity • Filling options: cartridge or bulk grease • 10,000 max working pressure
	Model 5200-007	Description Pistol Style Grease Gun	Features & Specifications Specifications: <ul style="list-style-type: none"> • 14 oz. capacity • Filling options: cartridge or bulk grease • 5,000 max working pressure
	Model 5200-010	Description Continuous Feed Grease Gun Air Operated	Features & Specifications Specifications: <ul style="list-style-type: none"> • Patented 360° rotating cartridge • Heavy duty professional grade construction • Three way filling • Includes air vent and filler plug • 2,400-6,000 psi Max WP

Accessories & Supplies | Grease Guns




GREASE GUNS

	Model	Description	Features & Specifications
	5200-013	Mini Grease Gun	Features: <ul style="list-style-type: none"> • Short stroke grip action for easy use • Heavy duty professional grade construction • Three way filling • Includes air vent and filler plug • 9' Whip hose, straight spout standard, and metal hose extension
	5200-011	Battery Operated Grease Gun	Includes: <ul style="list-style-type: none"> • Carrying case with shoulder strap • 42" Whip hose with coupler • Bend restrictors on hose • 2 - 18 volt batteries • 1-hour Quick Charger Specifications: <ul style="list-style-type: none"> • Pump has the capability of developing 9,500 psi fluid pressure
	1300-026	Suction Gun	Used for all-purpose draining and filling Includes: <ul style="list-style-type: none"> • 11" flexible hose included Specifications: <ul style="list-style-type: none"> • Heavy-duty construction • Needs no priming

MOUNTING CHANNELS



	2230-003	Mounting Channel - 1 Reel	<p>Mounting Channel Channels are designed to build reel banks of 1 to 6 reels.</p> <p>Use Mounting Channel I-Beam Bracket Kit #2230-002 to mount channel to a structural I-beam. Use Mounting Channel plate 2230-014 to install open reel to the channel</p>
	2230-004	Mounting Channel - 2 Reels	
	2230-005	Mounting Channel - 3 Reels	
	2230-006	Mounting Channel - 4 Reels	
	2230-007	Mounting Channel - 5 Reels	
	2230-008	Mounting Channel - 6 Reels	
	2230-002	Mounting Channel I-Beam Bracket Kit	<p>Attaches mounting channel (2230-XXX) to facility I-beam structure. Use two bracket kits for 2, 3, or 4 reels. Use 3 brackets for 5 or 6 reels.</p>
	2230-014	Mounting Channel Plate	<p>Simplified system for using open hose reels with a mounting channel. One person installation made easy, as this lighter weight plate is bolted to the mounting channel, providing plug & play mount of open reels.</p>

MOUNTING BRACKET KITS

	2230-024	Quick Mounting Plate	<p>For use with EVO, Premium, and Classic. Hose Reels Specially configured mounting plate kit is designed to facilitate simple, one person field installation of hose reels. No mounting channel required, mounts directly to unistrut. For I-beam mounting order 2230-013. NOTE: Not to be used with EV or EVX Hose Reels</p>
	2230-013	I-Beam Mounting Clamps	<p>For use with single EVO, Premium, and Classic. Attaches reel directly to structural beams with 4-1/2" to 6-1/2" flange widths or can be used with 2230-024. NOTE: Not to be used with EV or EVX Hose Reels</p>
	2230-016	Mounting Adapter Plate Kit for Classic Hose Reels	<p>For use with EVO, Premium, and Classic. The purpose of the kit is to facilitate the field installation of a Balcrank Signature™ Series Hose Reels onto a previously installed Graco mounting plate or Graco Series 250 and 350 hose reels.</p>

Accessories & Supplies | Mounting Plates & Nozzles

MOUNTING PLATES

	<p>2600-006</p>	<p>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.</p>
	<p>2600-007</p>	<p>Ceiling Plate Basement ceiling plate with two hose outlets.</p>

MOUNTING BRACKET-WALL

	<p>4411-001</p>	<p>Bracket for Lion™ HP</p>
<p>4411-001</p> <p>4411-008</p>	<p>4411-008</p>	<p>Bracket for LYNX, Panther® HP, and Tiger</p>

NOZZLES FOR DISPENSE

	<p>3332-085</p>	<p>3/8" NPT(F)</p>	<p>5.0 g/m</p>	<p>Auto-Lock</p>
	<p>3332-086</p>	<p>3/8" NPT(F)</p>	<p>5.0 g/m</p>	<p>Auto</p>
	<p>3332-090</p>	<p>3/8" NPT(F)</p>	<p>5.0 g/m</p>	<p>Semi-Auto</p>
	<p>3332-039</p>	<p>3/8" NPT(F)</p>	<p>15.5 g/m</p>	<p>High-Flo, Semi-Auto</p>
 <p>0.605 OD</p>	<p>3332-097</p>	<p>3/8" NPT(F) with adapter</p>	<p>2.1 gal/m (8 l/m)</p>	<p>Auto OD=0.605" <i>Verify ID of ATF port for compatibility.</i></p>
 <p>0.705 OD</p>	<p>3332-096</p>	<p>1/4" BSPP(F) with adapter</p>	<p>3.7 gal/m (14 l/m)</p>	<p>1/4 Turn Manual for OIL ports with OD=0.705" <i>Verify ID of ATF port for compatibility.</i></p>
 <p>0.315 OD</p>	<p>833361</p>	<p>1/4" BSPP(F) with adapter</p>	<p>3.7 gal/m (14 l/m)</p>	<p>1/4 Turn Manual for ATF ports with OD=0.315" <i>Verify ID of ATF port for compatibility.</i></p>

Accessories & Supplies | Pressure Relief - Pump Lift

PRESSURE RELIEF (EXTERNAL)



3120-085	Pressure Relief Kit, 1/2" NPT(M) 850 psi
3120-086	Pressure Relief Kit, 3/4" NPT(M) 850 psi
3120-087	Pressure Relief Kit, 3/4" NPT(M) 1,400 psi

PUMP LIFT

Use with Grease Inductors 1151-009, 1151-010, 1151-011, and 1151-012

Single post lift for pumps having lift-eye attachments. Works with 120lb. and 400lb. drum sizes. Includes model 4451-001 valve for raising lowering the air lift. This air lift, utilizing a roller bearing design for ease of rotation when mounted, is used to rotate a pump between three drums. NOTE: Minimum of 8" above lift is clearance required

	Model #	Description	Component Specifications	
	4450-001	Air Lift kit - Single post	Connection	1/2" NPT(F/F)
NOTE: Minimum of 8" above lift is clearance required				
	4451-001	Hoist Valve for Air Lifts	Material	Bronze air valve with "dead man" control

ACCESSORIES & SUPPLIES


Accessories & Supplies | Screens & Stops

SCREENS & STRAINERS

Screen Replacements

	4430-003	30-mesh	Grease	Lion™ HP 50:1
	4430-004	30-mesh	Grease	Panther® HP 50:1




Y-Strainer - For filtering debris on the suction side of the pump - 1,000 psi (69 bar) - all strainers have 60 mesh

	3120-051	1/2" NPT(F)	Pressure	1,000 psi (69 bar)
	3120-010	3/4" NPT(F)	Material	Ductile Iron
	3120-040	1" NPT(F)	Includes	Plug

Line Strainer - For filtering debris after the pump - 200 psi (14 bar) - all strainers have 60 mesh


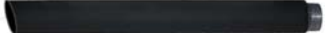
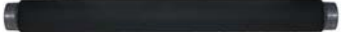

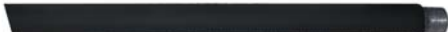
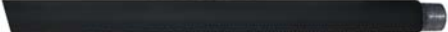

	3120-115	1" NPT(F)	Pressure	200 psi (14 bar)
			Temp.	100°F (38°C)
			Screen	16-mesh
			Material	Polypropylene, Stainless Steel, Viton®

STOPS

	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.
	2230-009	Hose stop for 1/4" ID Hoses
	2230-025	Hose stop for 3/8" ID Hoses
	2230-010	Hose stop for 1/2" ID Hoses
	2230-011	Hose stop for 3/4" ID Hoses
	2230-012	Hose stop for 1" ID Hoses

Accessories & Supplies | Suction Tubes - Tank Kits



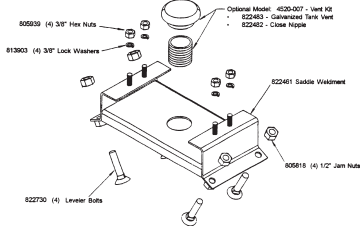
SUCTION TUBES

	Item	Length x OD	Suction End x Pump End
	4412-023	20" x 3/4" NPT(M) for 16 gal drum	15° x NPT thread
	4412-006	20" x 1" NPT(M) for 16 gal drum	15° x NPT thread
	4412-022	20" x 1" NPT(M) for 16 gal drum	NPT thread x NPT thread
	4412-024	26.5" x 3/4" NPT(M) for 55 gal drum	15° x NPT thread
	4412-007	26.5" x 1" NPT(M) for 55 gal drum Stainless Steel	15° x NPT thread
	4412-008	26.5" x 1" NPT(M) for 55 gal drum Black Iron	15° x NPT thread
	4412-028	33.25 x 3/4" NPT(M) for 275 gal Horizontal Obround Tank	NPT thread x NPT thread

SUCTION TUBE LOW LEVEL CUT-OFF *prevents air intake when fluid runs out*

	4411-005	Air Eliminator - 3/4" NPT(F)/1 1/2" NPT(M) adapter
	4411-010	Air Eliminator - 1/4" NPT(F)/1" NPT(M) adapter

TANK MOUNTING KITS

	822483	Tank Vent Cap 2" NPT
		 <p>The Balcrank Tank Saddle Kit is designed to mount all Balcrank hose reels, Signature™ and Premium Series, directly onto commercially available round or oval above ground storage tanks with a 2" NPT vent port. One step attachment, no welding or tank modifications required.</p> <p><i>Order separate vent kit when attaching tank saddle at a tank vent location.</i></p>
	4520-006	Tank Saddle Kit
	4520-007	Tank Vent Kit

Accessories & Supplies | Valves

INLET CHECK VALVES & KIT



4411-014	3/4" NPT(F)	Ball Check Valve
4411-015	1" NPT(F)	Ball Check Valve
4411-019	1" NPT(F)	Ball Check Valve-vented

IN-LINE HAND OPERATED VALVES *For use in piping systems to control pressure*



Model	Thread Size	Specifications	
3230-003	1/4" NPT(F)	Air Ball Valve-LP 200 psi (14 bar)	Body: Brass Seals: PTFE (Teflon®)
3230-004	1/2" NPT(F)	Air Ball Valve-LP 200 psi (14 bar)	Body: Brass Seals: PTFE (Teflon®)
3230-006	3/8" NPT(F)	Fluid Ball Valve-MP 2,000 psi (138 bar)	Body: Steel
3230-002	1/2" NPT(F)	Fluid Ball Valve-MP 2,000 psi (138 bar)	Body: Steel
3230-007	3/4" NPT(F)	Fluid Ball Valve-MP 2,000 psi (138 bar)	Body: Steel
3230-001	1/2" NPT(F)	Needle for Grease Shut-off Valve-HP 10,000 psi (689.5 bar)	Body: Steel
3230-008	1" NPT(F)	2-Way Ball Valve-MP 2,000 psi (138 bar)	Body: Steel



PUMP RUNAWAY CONTROL

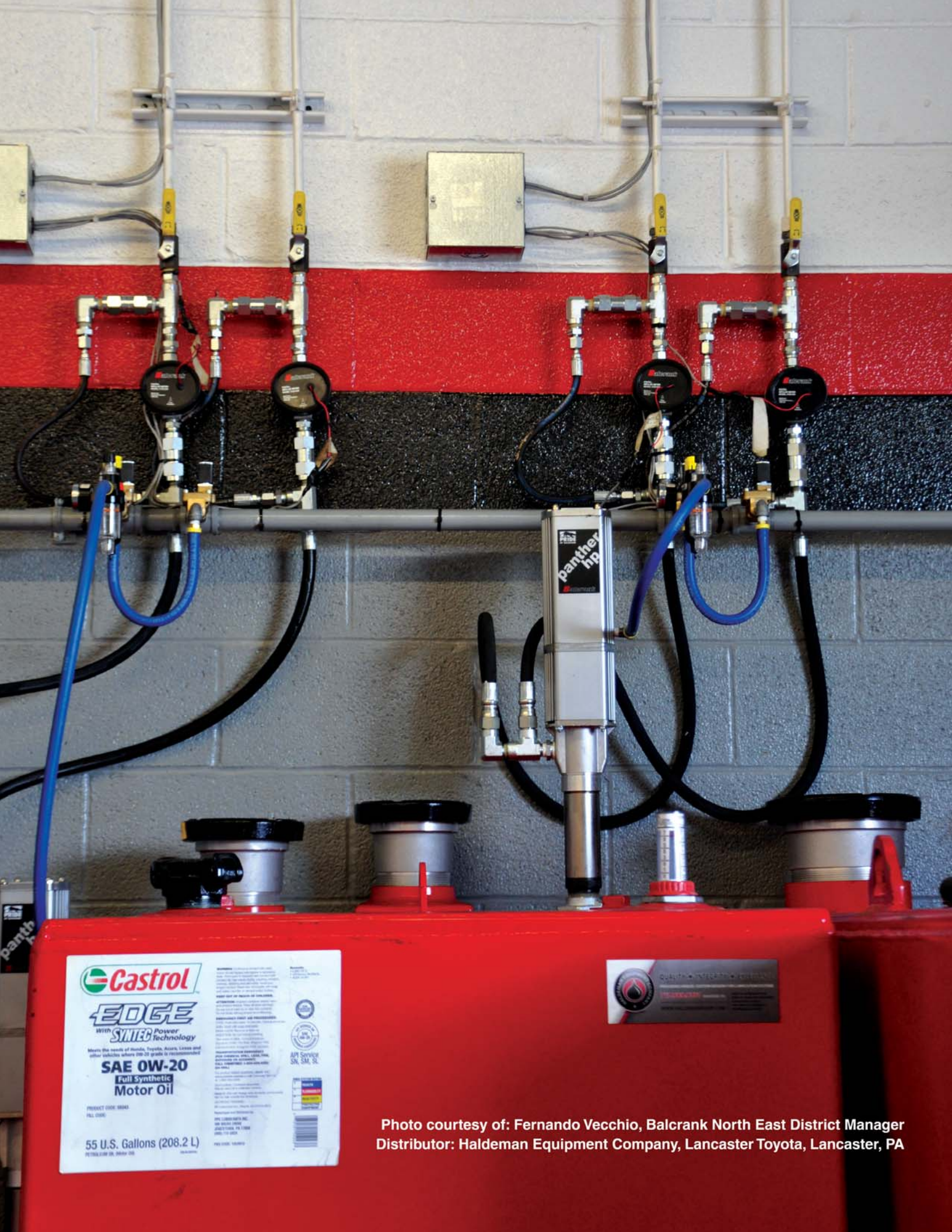


3241-002	1/4" NPT(F)	Pump Runaway Control
3241-001	1/2" NPT(F)	Pump Runaway Control

REVERSING (FOUR-WAY) *used to simplify transferring fluid*



3230-014	1" NPT(F)	Pressure	200 psi (69 bar)
		Material	Anodized Aluminum, Viton, and Stainless Steel



Castrol
EDGE
With **SYNTEC** Power Technology
Meets the needs of Honda, Toyota, Acura, Lexus and other vehicles where 0W-20 grade is recommended.
SAE 0W-20
Full Synthetic Motor Oil
PRODUCT CODE: 00043
FULL CODE:
55 U.S. Gallons (208.2 L)
PETROLEUM OIL, GRADE 0W

Quality • Reliability • Durability
panther hp

Photo courtesy of: Fernando Vecchio, Balcrank North East District Manager
Distributor: Haldeman Equipment Company, Lancaster Toyota, Lancaster, PA

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