General Product Catalog



alcrank

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 of Madrid Spain.

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	2005	Introduced Lion™ HP 5:1, 10:1, and 50:1 pumps
	cranks for the machine tool and automotive industries	2005	Introduced grease inductor pump systems for $Lion^{TM}$
1908	First in mass production of the ball-socket type of		HP and Panther® HP grease pumps
1920	tie-rod and drag link steering connection	2005	Introduced air operated oil evacuation system
1920	First and only mass producer of tubular bumpers for automobiles	2006	Introduced Pump Sentinel, a pump shutoff control system
1922	Enters into the lubrication equipment field and invents and produces the first electric grease gun	2006	Introduced Spectrum 1000™ fluid Inventory Control System
1923	First patents on hydraulic coupler and fittings now universally used today	2007	Implemented structural improvements to Premium reels
1924	Developed first air operated high-pressure/volume grease gun	2007	Introduced electrically operated e-vac oil evacuation system
1926	Developed first air powered lubrication pump	2007	Introduced <i>fusion</i> wireless fluid inventory control
1930	Developed first enclosed hose reels	2001	systems
1933	Company changes name to Balcrank, Inc.	2007	Introduced complete tank packages for oil and
1935	First pump with Deluxe Container covers for weathered		transmission fluid
	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 acquired by the Linter North America, a subsidiary of Linter Investments of Madrid Spain.
1960	Developed and introduced world's first high pressure	2009	Introduced Auto Lock nozzle
	coolant system	2009	Introduced 3:1 LYNX lube pump
1965	Patents on Jet Pulser high-pressure coolant system	2009	Introduced ILM (In-Line metered) series Control
1968	Introduced the original Director inventory control		Handles in both analog and electronic display
	system	2010	Introduces 1:1, 2:1 and 5:1 LYNX pumps
1987	Introduced the Director Jr. simplified inventory control system	2011	Introduced Signature Evolution Series hose reel
1994	Introduced the Dataflo electronic digital control handle	2011	Introduced NEW Redesigned Signature Series
1996	Introduced the Batano electronic digital control handle		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	2012	Introduced EV and EVX hose reels
1990	systems developed	2012	Introduced Synergy fluid inventory management systems
1999	Patents on Roughneck design	2013	Introduced 3/4" High Flow dispense valve
1999	Introduced Panther® HP 3:1 and 5:1 air operated	2013	Introduced CenterFlo air operated diaphragm pumps
2002	pumps	2013	Introduced Digital Register (DR) meter
2002	Introduced Panther® HP 50:1 grease pumps		
2003	Introduced Tiger HP 5:1 pump		
2004	Introduced mobile cart based 55 g drum pump		

Packages

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Pumps







	LYNX 1:1	LYNX 2:1
Bare Model	1110-010	1160-009
		'
Line Length	up to 165' (50 m)	up to 165' (50 m)
Free Flow, gal/m @150 psi (10.3 bar) Air	10.6 gal/m (40 l/m)	8.2 gal/m (31 l/m)
Recommended Types	Petroleum Based Oils	Anti-freeze (Glycol)
	Synthetic Oils	Windshield Fluids
Recommended applications	All Shops With	Automotive Dealerships
	Transfer Fluid Needs	Transmission Centers
		Tire Centers
		Quick Lubes
		Industrial Plants
		Mobile Lube

Reference Data		
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	LYNX 3:1	LYNX 5:1
Bare Model	1110-007	1110-011
Line Length	up to 328' (100 m)	up to 328' (100 m)
Line Length	up to 320 (100 III)	up to 320 (100 III)
Free Flow, gal/m @150 psi (10.3 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	Transmission Centers	Transmission Centers
	Tire Centers	Tire Centers
	Quick Lubes	Quick Lubes
	Industrial Plants	Industrial Plants
	Mobile Lube	Mobile Lube
Reference Data		

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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.



Catalog Pages



1110-010 Shown

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.

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 filter assures clean & quiet operation.
- Anodized aluminum air piston corrosion resistant, less sensitive to moisture in air system.
- Height adjustable 2" bung adapter to fit all types of drums, drum covers, tanks, etc.

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 -10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 150 psi (10.3 bar) air	1:1 -10.6 gal/m (40 l/m)
pressure and free flow	2:1 - 8.2 gal/m (30 l/m)
Air inlet	1/4" NPT(F)
Dump outlet	1:1 - 3/4" NPT(F)
Pump outlet	2:1 - 3/4" NPT(M)
Pump inlet (stub only)	1" NPT(F)
Pump air piston diameter	2" (51 mm)
Wetted materials	1:1 - Steel, Brass, Aluminum, Buna-N™, and Polyurethane
	2:1 - Viton® and PTFE (Teflon®), Stainless steel

Ormina Bullatin	1:1 SB1102
Service Bulletin	2:1 SB1105
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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 (<i>Dolly</i>)	1111-014 * & ** 55 gal Drum (<i>Cart</i>)	1111-012 * 55 gal Drum (<i>Dolly</i>)
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
In-Line High Flow Handle	3320-019	3320-019	3320-019
Suction Tube or Kit	4412-022		
Dolly Base / Drum Cart	4310-003	4320-008	4310-004

^{*} 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.



^{**}Optional Hose Reel Kit for 55 gal Carts 833318



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.

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 filter assures clean & quiet
- Anodized aluminum air piston corrosion resistant, less sensitive to moisture in air system.
- Height adjustable 2" bung adapter to fit all types of drums, drum covers, tanks, etc.

MODELS AVAILABLE

Bare stub pump with bung adapter 1110-007

SPECIFICATIONS

Pump ratio	3:1
Operating air pressure range	45 -150 psi (3 -10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 150 psi (10.3 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 air piston diameter	1 1/4" (32 mm)
Wetted materials	Buna-N™, Steel, Brass, Aluminum, and Polyurethane

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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)	1111-021 *** 24 gal Bulk Dispense	1111-007 * 55 gal Drum (Dolly)	1111-008 * 55 gal Drum (Cart)
Bare Pump	1110-007	1110-007	1110-007	1110-007	1110-007
Bung Adapter	4411-022	4411-022	4411-022	4411-022	4411-022
F/R Mini Auto Drain 1/4" NPT(F)	3260-033	3260-033	3260-033	3260-033	3260-033
Fluid Hose 10' x 1/2"	8249-010	8249-010	8249-010	8249-010	8249-010
In-Line Analog Control Handle	3330-146	3330-146	3330-146	3330-146	3330-146
Suction Tube or Kit	4412-023	4412-023	4412-025	4412-024	4412-024
Dolly Base / Drum Cart	4310-003	4320-009		4310-004	4320-008
Hose Reel			Optional		

[~] 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.



Drum Not Included
 Optional Hose reel kit for 55 gal carts 833318
 *** Requires mounting kit 833319 and Evolution, Classic, or Premium Signature Series Hose Reel



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.

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 filter assures clean & quiet operation.
- Anodized Aluminum air piston corrosion resistant, less sensitive to moisture in air system.
- Height adjustable 2" bung adapter to fit all types of drums, drum covers, tanks, etc.

MODELS AVAILABLE

1110-011 Bare stub pump with bung adapter

SPECIFICATIONS

Pump ratio	5:1
Operating air pressure range	45-150 psi (3-10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 150 psi (10.3 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 air piston diameter	1 1/4" (32 mm)
Wetted materials	Steel, Brass, Aluminum, Buna-N™ and Polyurethane

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)	1111-024 *** 24 gal Bulk Dispense	1111-020 * 55 gal Drum (Dolly)	1111-023 * 55 gal Drum (Cart)
Bare Pump	1110-011	1110-011	1110-011	1110-011	1110-011
Bung Adapter	4411-022	4411-022	4411-022	4411-022	4411-022
F/R Mini Auto Drain 1/4" NPT(F)	3260-033	3260-033	3260-033	3260-033	3260-033
Fluid Hose 10' x 1/2"	8249-010	8249-010	8249-010	8249-010	8249-010
In-Line Analog Control Handle	3330-146	3330-146	3330-146	3330-146	3330-146
Suction Tube or Kit	4412-023	4412-023	4412-025	4412-024	4412-024
Dolly Base / Drum Cart	4310-003	4320-009		4310-004	4320-008
Hose Reel			Optional		

[~] 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.



Drum Not Included
 Optional Hose reel kit for 55 gal carts 833318
 *** Requires mounting kit 833319 and Evolution, Classic, or Premium Signature Series Hose Reel







	PANTHER® HP 3:1	PANTHER® HP 5:1
Bare Model	1130-015	1130-016
Line Length	250'	500'
Simultaneous Dispense Points	3	2
Free Flow, gal/m @100 psi (7 bar) Air	8 gal/m (30 l/m)	6 gal/m (23 l/m)
	2 / 1 2 / 2 / 2 / 2 / 2	5 5
Recommended Fluid	Petroleum Based Oils	Petroleum Based Oils
	Synthetic Oils	Synthetic Oils
Recommended applications	Automotive Dealerships	Automotive Dealerships
	Transmission Centers	Transmission Centers
	Tire Centers	Tire Centers
	Quick Lubes	Quick Lubes
	Industrial Plants	Industrial Plants
	Mobile Lube	Mobile Lube
	Mining	Mining

Reference Data		
Catalog Pages	16	18







	TIGER® HP 6:1	Lion™ HP 5:1	Lion™ HP 10:1
Bare Model	1130-019	1130-027	1130-024
Line Length	500'	500'	750'
Simultaneous Dispense Points	6	10	6
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	Automotive Dealerships	Automotive Dealerships	Large Automotive Dealerships
	Fleet Service	Fleet Service	Large Fleet Service
	Industrial Plants	Industrial Plants	Industrial Plants
	Mobile Lube	Mobile Lube	Mobile Lube
	Mining	Mining	Mining
Reference Data			
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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.





Pump Pressure/Flow (3:1) Test Fluid: 10W30 Oil 500 400 70 psi ---- 100 psi ---- 150 psi 150 psi Flow, GPM

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

0. = 00,0	
Pump ratio	3:1
Operating air pressure range	30-150 psi (1-10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 100 psi (7 bar) air pressure and free flow:	8 gal/m (30 l/m)
Air consumption (100 psi & 4 gal/m)	19.70 SCFM
Max fluid stall pressure @150 psi (10.3 bar) air	490 psi (33.8 bar)
Cycles per gal	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 Bulletin	SB1064
Accessories pg.	26





STATIONARY/PORTABLE:

	1131-007 Wall Mount	1131-009 Pump & Hose	1131-013 * 16 gal Portable
Bare Pump	1130-015	1130-015	(Dolly) 1130-015
Bung Adapter	4411-009N	4411-009N	4411-009N
Air Hose 5' x 3/8"	8132-005	8132-005	
Fluid Hose 5' x 1/2"	8249-005	8249-005	
Fluid Hose 10' x 1/2"			8249-010
In-Line Analog Control Handle			3330-146
Suction Tube or Kit	4412-015		4412-006
Wall Mount Bracket	4411-008		
Drum Cover			4420-005
Dolly Base, 120 lb/16 gal *Drum not included			4310-001







PORTABLE:

	1131-031** 24 gal Bulk Dispense	1131-029 * 55 gal Portable (Dolly)	1131-030 * & ** 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
In-Line Analog Control Handle	3330-146	3330-146	3330-146
Suction Tube or Kit	4412-026	4412-008	4412-008
F/R Mini Auto Drain 1/4" NPT(F)	3260-033	3260-033	3260-033
Dolly Base / Drum Cart		4310-004	4320-008

- Drum Not Included
- *** Requires mounting kit 833319 and Evolution, Classic, or Premium Signature Series Hose Reel
 *** 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

Pump Pressure/Flow (5:1) Test Fluid: 10W30 Oil 800 700 70 psi 600 Fluid Pressure, psi 100 psi 500 · · 150 psi 400 300 200 100 0 Flow, GPM

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

01 2011 107 (110110	
Pump ratio	5:1
Operating air pressure range	30-150 psi (1-10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 100 psi (7 bar) air pressure and free flow:	6 gal/m (23 l/m)
Air consumption (100 psi & 3 gal/m)	24.80 SCFM
Max fluid stall pressure @150 psi (10.3 bar) air	760 psi (52.4 bar)
Cycles per gal	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

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Piston Pumps | Panther® HP 5:1 Packages

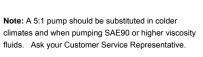




STATIONARY/PORTABLE:

	1131-008 Wall Mount	1131-010 Pump & Hose	1131-014 * 16 gal Portable
Bare Pump	1130-016	1130-016	(Dolly) 1130-016
Bung Adapter	4411-009N	4411-009N	4411-009N
Air Hose 5' x 3/8"	8132-005	8132-005	
Fluid Hose 5' x 1/2"	8249-005	8249-005	
Fluid Hose 10' x 1/2"			8249-010
In-Line Analog Control Handle		<u></u>	3330-146
Suction Tube or Kit	4412-015	<u></u>	4412-006
Wall Mount Bracket	4411-008	<u></u>	
Drum Cover		<u></u>	4420-005
Dolly Base, 120 lb/16 gal			4310-001
*Drum not included			1010 001









PORTABLE:

	1131-031 & ** 24 gal	1131-029 * 55 gal Portable	1131-030 * & *** 55 gal Portable
Bare Pump	Bulk Dispense 1130-015	(Dolly) 1130-015	(Cart) 1130-015
Bung Adapter	4411-009N	4411-009N	4411-009N
Fluid Hose 10' x 1/2"	8249-010	8249-010	8249-010
In-Line Analog Control Handle	3330-146	3330-146	3330-146
Suction Tube or Kit	4412-026	4412-008	4412-008
F/R Mini Auto Drain 1/4" NPT(F)	3260-033	3260-033	3260-033
Dolly Base/ Drum Cart		4310-004	4320-008

- *** Requires mounting kit 833319 and Evolution, Classic, or Premium Signature Series Hose Reel
 *** 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

900 800 Inlet Air 700 70 psi Fluid Pressure, psi 600 - 100 psi 500 ··· 150 psi 400 300 200 100 0 0 20 Flow, GPM

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

OI LOII IO/(IIOI(O	
Pump ratio	6:1
Operating air pressure range	40-150 psi (3-10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 100 psi (7 bar) air pressure and free flow:	16 gal/m (61 l/m)
Air consumption (100 psi & 8 gal/m)	59 SCFM
Max fluid stall pressure @150 psi (10.3 bar) air	870 psi (60 bar)
Cycles per gal	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®

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Piston Pumps | Tiger® HP 6:1 Packages





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 ^IAccessories selection see page 144

BUNG ADAPTERS:		FILTER REGULATOR (F/R):		SUCTION CHECK VALVES	
4411-009N	Bung Adapter W/ Pressure Relief	3260-035	F/R Auto Drain 3/8" NPT(F)	4411-015	Ball Check Valve 1" NPT(F)
4411-009QX	10 PK Bung Adapter W/ Pressure Relief			4411-019	Ball Check Valve 1" NPT(F) Vented
4411-017N	Bung Adapter, Nickel Plated SS W/ Pressure Relief for 1160-007				
DOLLY BASES:		LOW LEVEL CUT-OFF: SUCTION TUBES		ES	
4310-004	Dolly Base, 55 gal/400 lb heavy duty	4411-010	Low Level Cut-off 3/4" NPT(F) with 1" NPT(M) adapter	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
DRUM CARTS:		PUMP RUNAW	AY CONTROL:	WALL MOUNT	BRACKET:
4320-008	Drum Cart 55 gal/400 lb heavy duty	3241-001	Pump Runaway Control 1/2" NPT(F)	4411-008	Wall mount Bracket for use with Tiger

[~] 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.





Pump Pressure/Flow (5:1) Test Fluid: 10W30 Oil 800 700 70 psi 600 - 100 psi Fluid Pressure, psi 150 psi 500 400 300 200 100 0 0 10 Flow, GPM

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

SPECIFICATIONS	
Pump ratio	5:1
Operating air pressure range	30-150 psi (2-10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 150 psi (10.3 bar) air pressure and free flow	27 gal/m (102 l/m)
Air consumption (100 psi & 8 gal/m)	47 SCFM
Max fluid stall pressure @150 psi (10.3 bar) air	800 psi (60 bar)
Cycles per gal	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

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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 ^IAccessories selection see page 144

BUNG ADAPTERS:		FILTER REGUL	ATOR:	SUCTION CHECK VALVES	
4411-007N	Steel, Lion 5:1 W/ Pressure Relief	3260-036 F/R, Auto Drain 1/2" NPT(F)		4411-015	Ball Check Valve 1" NPT(F)
				4411-019	Ball Check Valve 1" NPT(F) Vented
DOLLY BASES:		LOW LEVEL CU	LOW LEVEL CUT-OFF:		ES
4310-004	Dolly Base, 55 gal/400 lb heavy duty	4411-005	Low Level Cut-off 3/4" NPT(F) with 1 1/2" NPT(M) adapter	4412-008	26 1/2" x 1" NPT(M) for 55 gal drum
DRUM CARTS:		DIIMD DIINAWA	AV CONTROL :	WALL MOUNT	DDACKET.
DRUW CARTS.		PUMP RUNAWAY CONTROL:		WALL MOONT BRACKET.	
4320-008	Drum Cart 55 gal/400 lb heavy duty	3241-001	Pump Runaway Control 1/2" NPT(F)	4411-001	Wall Mount Bracket for use with Lion 5:1

[~] 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.





Test Fluid: 10W30 Oil 1200 1000 800 400 200 0 2 4 6 8 10 12 14 16 Flow, GPM

Pump Pressure/Flow (10:1)

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

OI LOII IOATIONO	
Pump ratio	10:1
Operating air pressure range	30-150 psi (2-10.3 bar)
Pump delivery with SAE 10W30 oil, 68° F, 100 psi (7 bar) air pressure and free flow:	16.5 gal/m (62 l/m)
Air consumption (100 psi & 8 gal/m)	46 SCFM
Max fluid stall pressure @150 psi (10.3 bar) air	1,300 psi (89.6 bar)
Cycles per gal	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

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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 ^IAccessories selection see page 144

BUNG ADAPTERS:		FILTER REGULATOR:		SUCTION CHECK VALVES	
N/A	Lion 10:1 are flange mount only	3260-036 F/R, Auto Drain 1/2" NPT(F)		4411-015	Ball Check Valve 1" NPT(F)
				4411-019	Ball Check Valve 1" NPT(F) Vented
DOLLY BASES:		LOW LEVEL CUT-O	FF:	SUCTION TUBES	
4310-004	Dolly Base, 55 gal/400 lb heavy duty	4411-010	Low Level Cut-off 3/4" NPT(F) with 1" NPT(M) adapter	4412-008	26 1/2" x 1" NPT(M) for 55 gal drum
DRUM CARTS:		PUMP RUNAWAY CONTROL:		WALL MOUNT BRACKET:	
4320-008	Drum Cart 55 gal/400 lb heavy duty	3241-001 Pump Runaway Control 1/2" NPT(F)		4411-001	Wall Mount Bracket for use with Lion 10:1

[~] 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 ^IAccessories selection see page 144
	4411-007N 4411-009N 4411-009QX 4411-012 4411-017N 4411-018N	Steel: Lion™ HP 5:1 W/ Pressure Relief Alum. Panther® HP, Tiger W/ Pressure Relief Alum. Panther® HP, Tiger W/ Pressure Relief 10 pk Bung Adapter for use with 1" suction tube Nickel Plated SS: Tiger W/ Pressure Relief Double Tap Bushing for Panther W/ Pressure Relief
4411-007N 4411-017N 4411-018N 4411-009N	4411-021	Bung Adapter LYNX: 1:1, 2:1
	4411-022 4411-024	Bung Adapter LYNX: 3:1, 5:1 Filter Cap - Poly
DOLLY BASES		
4310-001 4310-003 4310-004	4310-001 4310-003 4310-004	Dolly Base, 120 lb/16 gal Dolly Base, 120 lb/16 gal wide track Dolly Base, 400 lb/55 gal heavy duty
DRUM CARTS		
0	4220.000	Decision Cont. 4200 Hr./400 and
44	4320-009 4320-008	Drum Cart 120 lb/16 gal Drum Cart 400 lb/55 gal heavy duty
4320-009	4020 000	Brain curt 400 ib/00 garneavy dady
DRUM COVERS		
4420-005	4420-005	Drum Cover 120 lb/16 gal
	4420-007	Drum Cover 400 lb/55 gal OFF-SET
EXTERNAL PRESSURE RELIEF		
	3120-085	Pressure Relief Kit, 1/2" NPT(M) 850 psi
	3120-086 3120-087	Pressure Relief Kit, 3/4" NPT(M) 850 psi Pressure Relief Kit, 3/4" NPT(M) 1400 psi
LOW LEVEL CUT-OFF prevents air intake when fi		Fressure Relief Rit, 3/4 INF I (M) 1400 psi
2011 22 122 201 011 protono an imano imonin	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)
INI ET OLIEOU VALVEO A KIT	3241-002	Pump Runaway Control 1/4" NPT(F)
INLET CHECK VALVES & KIT	4411-015	Ball Check Valve 1" NPT(F)
7 - 2	4411-019	Ball Check Valve 1" NPT(F), vented
SUCTION TUBES	4411-014	Ball Check Valve 3/4" NPT(F)
SOCTION TOBES	4412-006	20 1/2" x 1" NPT(M) for 16 gal drum
1000	4412-007	26 1/2" x 1" NPT(M) for 55 gal drum (SS tube)
WALL MOUNT DRACKETO	4412-008	26 1/2" x 1" NPT(M) for 55 gal drum
WALL MOUNT BRACKETS	4411-001	Wall mount bracket for Lion™ HP
		Wall mount bracket for LYNX, Panther® HP,
4411-001 4411-008	4411-008	and Tiger
4411000		

Piston Pumps | Accessory Kits

	TS		TO VIEW LITE COITI	piete Maccessoi	ies selection see page 144
4410-058	Wall Mount	4410-057	1:1 Hose & Suction (16 gal)	4410-054	Hose 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 1"	8261-005	Fluid Hose 5' x 3/4"
4412-027	Suction Tube 3/4"			3270-003	Air Coupler 1/4" FPT
8171-006	Suction Hose 6' x 3/4"	4410-059	3:1/5:1 Hose & Suction (16 gal)	3270-039	Air Nipple 1/4" NPT
4411-011	Bung Adapter	8263-010	Fluid Hose 10' x 3/4"		
4411-008	Wall Mount Bracket	4412-023	Suction Tube 3/4"		
		4410-060	3:1/5:1 Hose & Suction (55 gal)		
		8263-010	Fluid Hose 3/4" x 10'		
		4412-024	Suction Tube 3/4"		
PANTHE	R® HP KITS				
4410-022	Wall Mount	4410-027	Hose & Suction	4410-055	Hose 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"
3270-003	Air Coupler 1/4" FPT	3270-003	Air Coupler 1/4" FPT	3270-003	Air Coupler 1/4" FPT
3270-039	Air Nipple 1/4" NPT	3270-039	Air Nipple 1/4" NPT	3270-039	Air Nipple 1/4" NPT
4412-015	Suction Tube 1"	4412-008	Suction Tube 1"		
4411-009N	Bung Adapter	4411-009N	Bung Adapter		
4411-008	Wall Mount Bracket				
TIGER®	HP KITS				
4410-045	Wall Mount	4440.04=			Hana Kit
TT10-0-13	Train in our it	4410-017	Hose & Suction	4410-056	Hose Kit
8134-005	Air Hose 5' x 3/8"	4410-017 8134-005	Hose & Suction Air Hose 5' x 3/8"	4410-056 8134-005	Air Hose 5' x 3/8"
8134-005	Air Hose 5' x 3/8"	8134-005	Air Hose 5' x 3/8"	8134-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4"
8134-005 8264-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4"	8134-005 8264-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4"	8134-005 8264-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4"
8134-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT	8134-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT	8134-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT
8134-005 8264-005 3270-002 3270-001	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT	8134-005 8264-005 3270-002 3270-001	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT	8134-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT
8134-005 8264-005 3270-002 3270-001 4412-015	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1"	8134-005 8264-005 3270-002 3270-001 4412-008	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1"	8134-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket	8134-005 8264-005 3270-002 3270-001 4412-008	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1"	8134-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket	8134-005 8264-005 3270-002 3270-001 4412-008	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1"	8134-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket	8134-005 8264-005 3270-002 3270-001 4412-008 4411-009N	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter	8134-005 8264-005 3270-002 3270-001	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008 LION™ I	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket HP KITS 5:1 Wall Mount	8134-005 8264-005 3270-002 3270-001 4412-008 4411-009N	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter	8134-005 8264-005 3270-002 3270-001	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT 5:1/10:1 Hose Kit
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008 LION TM I 4410-037 8144-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket HP KITS 5:1 Wall Mount Air Hose 5' x 1/2"	8134-005 8264-005 3270-002 3270-001 4412-008 4411-009N 4410-004 8144-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter 10:1 Wall Mount Air Hose 5' x 1/2"	8134-005 8264-005 3270-002 3270-001 4410-014 8144-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT 5:1/10:1 Hose Kit Air Hose 5' x 1/2" Fluid Hose 5' x 3/4"
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008 LION TM I 4410-037 8144-005 8264-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket HP KITS 5:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4"	8134-005 8264-005 3270-002 3270-001 4412-008 4411-009N 4410-004 8144-005 8264-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter 10:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4"	8134-005 8264-005 3270-002 3270-001 4410-014 8144-005 8264-005	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT 5:1/10:1 Hose Kit Air Hose 5' x 1/2" Fluid Hose 5' x 3/4"
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008 LION™ I 4410-037 8144-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket HP KITS 5:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT	8134-005 8264-005 3270-002 3270-001 4412-008 4411-009N 4410-004 8144-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter 10:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT	8134-005 8264-005 3270-002 3270-001 4410-014 8144-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT 5:1/10:1 Hose Kit Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008 LION TM I 4410-037 8144-005 8264-005 3270-002 3270-001	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket HP KITS 5:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT	8134-005 8264-005 3270-002 3270-001 4412-008 4411-009N 4410-004 8144-005 8264-005 3270-002 3270-001	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter 10:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT	8134-005 8264-005 3270-002 3270-001 4410-014 8144-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT 5:1/10:1 Hose Kit Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT
8134-005 8264-005 3270-002 3270-001 4412-015 4411-009N 4411-008 LION TM I 4410-037 8144-005 8264-005 3270-002 3270-001 4412-016	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter Wall Mount Bracket HP KITS 5:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 5' x 1 1/2"	8134-005 8264-005 3270-002 3270-001 4412-008 4411-009N 4410-004 8144-005 8264-005 3270-002 3270-001 8181-006	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Tube 1" Bung Adapter 10:1 Wall Mount Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT Suction Hose 6' x 1"	8134-005 8264-005 3270-002 3270-001 4410-014 8144-005 8264-005 3270-002	Air Hose 5' x 3/8" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT Air Nipple 3/8" MPT 5:1/10:1 Hose Kit Air Hose 5' x 1/2" Fluid Hose 5' x 3/4" Coupler Swivel 3/8" FPT

[~] 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

- 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)*
- Choice of:
 - LYNX or Panther 3:1 Pump
 - 50' x 1/2" ID Classic or Evolution Hose Reel
- Mechanical Meter with flex extension
- Filter Regulator
- * 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	Evolution Hose Reel & LYNX 3:1 Pump	1134-003
Single Wall Construction	Classic Hose Reel & Panther® HP 3:1 Pump	1134-001 (L)
Double Wall Construction	Evolution Hose Reel & LYNX 3:1 Pump	1134-004
Double Wall Construction	Classic Hose Reel & Panther® HP 3:1 Pump	1134-002
250 gal 30H x 32W x 60L Single Wall Construction	Evolution Hose Reel & LYNX 3:1 Pump Classic Hose Reel & Panther® HP 3:1 Pump	1134-007 (L) 1134-005 (L)
Double Wall Construction	Evolution Hose Reel & LYNX 3:1 Pump	1134-008
Bodbio Traii Conciliación	Classic Hose Reel & Panther® HP 3:1 Pump	1134-006
280 gal 33H x 33W x 60L Single Wall Construction	Evolution Hose Reel & LYNX 3:1 Pump Classic Hose Reel & Panther® HP 3:1 Pump	1134-015 1134-013
	Evolution Hose Reel & LYNX 3:1 Pump	1134-016
Double Wall Construction	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).

Piston Pumps | Tank Packages



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 gal vertical packages: equipment ships separately.

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



Photo courtesy of: Haldeman Equipment Lancaster Toyota, Lancaster, PA

HORIZONTAL OBROUND TANK PACKAGES

Horizontal Obround tanks combine the small foot print of a vertical tank with the easy access of a work bench tank. The fill cap and hose reel are located a convenient 44" from the floor.



Size	Package Includes	Model Number
275 gal 44H x 27W x 60L	Evolution Hose Reel & LYNX 3:1 Pump	1134-011
Single Wall Construction	Classic Hose Reel & Panther® HP 3:1 Pump	1134-009
	Evolution Hose Reel & LYNX 3:1 Pump	1134-012
Double Wall Construction	Classic Hose Reel & Panther® HP 3:1 Pump	1134-010
330 gal 44H x 27W x 72L	Evolution Hose Reel & LYNX 3:1 Pump	1134-023
Single Wall Construction	Classic Hose Reel & Panther® HP 3:1 Pump	1134-021
	Evolution Hose Reel & LYNX 3:1 Pump	1134-024
Double Wall Construction	Classic Hose Reel & Panther® HP 3:1 Pump	1134-022

[~] 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 | Tankless Packages



PACKAGE INCLUDES

- LYNX 3:1, Panther® HP 3:1, or Panther® HP 5:1 pump with bung adapter
- Signature series hose reels 30' or 50' Classic or Evolution
- Inlet hose for hose reel
- · In-Line Control Handle
- Filter Regulator

Sold Separately

- · Lockable fill cap and gauge
- · Suction tube
- Bare tank

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	1110-007	1110-007	1130-020	1130-021
Signature Series Classic Hose Reel			2120-011	2120-011
Signature Series Evolution Hose Reel	2140-013	2140-013	<u></u>	
In-Line Electronic, Control Handle	3330-142	3330-143		
In-Line Analog, Control Handle		<u></u>	3330-146	3330-146
F/R Auto Drain 1/4" NPT(F)	3260-060	3260-060	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	1110-007	1110-007	1130-020	1130-021
Signature Series Classic Hose Reel			2120-013	2120-013
Signature Series Evolution Hose Reel	2140-014	2140-014		
In-Line Electronic, Control Handle	3330-142	3330-143		
In-Line Analog, Control Handle			3330-146	3330-146
F/R Auto Drain 1/4" NPT(F)	3260-060	3260-060	3260-033	3260-033

PACKAGE ACCESSORIES:

To view the complete ^IAccessories selection see page 144

BUNG ADAP	TERS:	FLUID/PUMP CONTROL:		LEVEL MON	IITOR (GUARDIAN)
4411-022	Bung Adapter Lynx 3:1	3110-009	Pump Sentinel	4520-010	Tank Guardian
4411-009N	Bung Adapter Panther W/ Pressure Relief	3120-011	Air Solenoid Valve - 3/8" NPT(F) 24 VAC	4520-011	PC Interface and software for 4 Tanks
4411-009QX	10 PK Bung Adapter Panther W/ Pressure Relief	3120-033	Air Solenoid Valve - 3/8" NPT(F) 24 VDC	4520-012	PC Interface and software for 8 Tanks
Double tap bushings w/		FLUID OUTLET HOSE 5':		Tank Saddle:	
4411-018N	Pressure Relief (for easy installation and removal of pump)	8249-005	5' x 1/2" NPT(M) 5,000 psi (345 bar)	4520-006	Tank Saddle (Converts standard fuel oil tank to accept a Balcrank hose reel)
FILTER REG	R REGULATOR: TANK LEVEL GAUGE:		TANK LEVEL GAUGE:		
3260-039	Air Filter 1/4" NPT(F)	4520-014	Black Knight Gauge	832706	4" Emergency vent
3260-029	Air Regulator 1/4" NPT(F)		Tank Level Gauge		2" Vented fill cap
3260-033	F/R Auto Drain 1/4" NPT(F)	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.)		4520-007	Vent Cap Mounting Kit (for attaching 4520-006 to vent outlet of obround tanks)

Pressurized Dispenser | Lube Caddy



FEATURES:

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

Recommended options

• 3260-038 F/R Auto Drain 1/4" NPT(F)

MODELS AVAILABLE

1200-001	In-Line Series Analog, Rigid, Manual Nozzle
1200-002	In-Line Series Electronic, Rigid, Manual Nozzle
1200-003	In-Line Series Non-Metered, Rigid, Manual Nozzle

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 gals, 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 gal 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

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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.





	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	n pressure, low volume portable grease. Not r	ecommended for piped overhead system
Simultaneous 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 fluids	NLGI #2 Grease	NLGI #2 Grease
Recommended applications	Automotive Dealerships	Automotive Dealerships
		Automotive Dealerships
	Transmission Centers	Transmission Centers
	Transmission Centers Tire Centers	
		Transmission Centers
	Tire Centers	Transmission Centers Tire Centers
	Tire Centers Quick Lubes	Transmission Centers Tire Centers Quick Lubes

Reference Data		
Catalog Pages	34	34





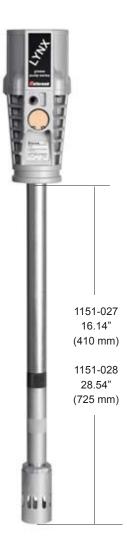


	Panther® HP 50:1	Lion™ HP 50:1
Bare Model	1150-010	1150-015
Line Length	300'	300'
Simultaneous Dispense Points	3	8
Free Flow, lb/min. @ 100 psi (7 bar) Air	3.5 lb/m (1.59 kg/m)	16 lb/m (7.25 kg/m)
		, -
Recommended fluids	NLGI #2 Grease	NLGI #2 Grease
Recommended applications	Automotive Dealerships	Automotive Dealerships
	Fleet / Commercial Dealerships	Fleet / Commercial Dealerships
	Transmission Centers	Industrial Plants
	Tire Centers	Mining
	Quick Lubes	
	Industrial Plants	
	Mobile Lube	
Reference Data		
Catalog Pages	36	38

[~] 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:

- 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 contaminates.
 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 (3-10.3 bar)
Pump delivery, 100 psi (7 bar) air pressure and free flow:	1.2 lb/M (.54 kg/M)
Air consumption (100 psi & 8 gal/m)	8.1 SCFM
Max fluid stall pressure @150 psi (10.3 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®)

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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	3310-026	3310-026
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 ^IAccessories selection see page 144

BUNG ADA	BUNG ADAPTERS: FOLLOWER PLATES:		FILTER REGULATOR:		
4411-023	Bung Adapter, LYNX 55:1	4440-013	Follower Plate LYNX, 25-35 lb/ 5 gal	3260-033	F/R Auto Drain 1/4" NPT(F)
		4440-014	Follower Plate LYNX, 120 lb/ 16 gal		
DOLLY BA	SES:	GREASE HANDLES:		GREASE HANDLE ACCESSORIES:	
4310-003	Dolly Base, 120 lb/16 gal heavy duty	3310-026	Non-boosting Boosting Handle	8390-002	18" Whip Hose HP Flexible Extension
		3310-027	Non-boosting Boosting Handle with 18' whip hose and Z-swivel	8390-003	36" Whip Hose HP Flexible Extension
DRUM COV	/ERS:	3310-028	Non-boosting Boosting Handle with 36' whip hose and Z-swivel	5310-018	Z-Swivel 1/4" NPT(F) x 1/4" NPT(M)
4420-010	Pail Cover, LYNX, 25-35 lb/ 5 gal			5310-020	Grease Coupler/Nozzle
4420-011	Drum Cover LYNX, 120 lb/ 16 gal			4420-012	Grease Gun Holder

[~] 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.





Pump Pressure/Flow (50:1)

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 1151-010	Panther® HP Bare Pump - 25-35 lb Panther® HP Bare Pump - 120 lb
1151-011	Panther® HP Bare Pump - 400 lb
1150-017	Panther® HP Bare Pump - tote

SPECIFICATIONS

01 2011 107 (110110	
Pump ratio	50:1
Operating air pressure range	40-150 psi (2.8-10.3 bar)
Pump delivery, 100 psi (7 bar) air pressure and free flow:	3.4 lb/M (1.542 k/m)
Air consumption (100 psi & 8 gal/m)	14.5 SCFM
Max fluid stall pressure @150 psi (10.3 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®

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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
Non-Boosting Grease Handle W/swivel	3310-026		3310-026
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	
Grease Handle W/ 36" Whip Hose	3310-028		
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.





Pump Pressure/Flow (50:1) Test Fluid: Multiplex EP-1 Grease 7000 6000 70 psi ---- 100 psi ---- 150 psi 1000 0 2 4 6 8 10 12 14 16 18 Flow, LB/MIN

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 (1-10.3 bar)
Pump delivery, 100 psi (7 bar) air pressure and free flow:	16 lb/M (7527 gal/m)
Air consumption (100 psi & 8 gal/m)	72 SCFM
Max fluid stall pressure @150 psi (10.3 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®

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STATIONARY PACKAGE:

	1151-018* 400 lb Stationary	1151-022 Tote
	400 ib Clationary	1010
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 ^IAccessories selection see page 144

DRUM COV	ERS:	FOLLOWER PLATES:	
4420-003	Drum Cover 400 lb/ 55 gal	4440-012 Follower Plate Lion™ HP, 400 lb/55 gal	
PUMP RUNAWAY CONTROL:		INLET SCREEN:	
3241-001	Pump Runaway Control 1/2" NPT(F)	4430-003	Inlet Screen, 30-Mesh, Lion™ HP 50:1





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.

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

~ 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

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Piston Pumps-Grease | Lion™ HP Grease Inductor



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

Lion™ HP Inductor with Low Level Shutoff 1151-012 4520-008 Low Level Shutoff For Grease Inductor

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

SERVICE BULLETINS & ACCESSORIES

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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.



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.

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 Dolly Base, 23-35 lb/5 gal Dolly Base, 120 lb/16 gal

Dolly Base, 120 lb/16 gal Wide Track Dolly Base, 400 lb/55 gal Heavy Duty

DRUM CARTS



4320-009

4310-004

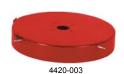
Drum Cart, 120 lb/16 gal

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

DRUM COVERS







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

Mobile Drum Cover, 400 lb for Panther® HP

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





7120-012 7120-020

4420-004

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

50:1-Center hole-designed for Grease Mobile Drum Cover, 400 lb for Lion® HP

7120-013 50:1-Center hole-designed for Grease

HOLD DOWN RODS



7120-005 7120-004

Hold Down Rod, 400 lb Mobile Drum Cover Hold Down Rod, 120 lb Mobile Drum Cover

Piston Pumps-Grease | Accessories

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 Follower Plate, 120 lb for Panther® HP 50:1 4440-008

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

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 042	Crosso Cup Holder

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	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)
3310-026	Grease Handle		

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
3270-001	Air Nipple 3/8" NPT(M)

[~] 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

- · Work lever up and down with slow full strokes.
- · 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:
 - 3332-085 Auto-lock nozzle
 - 832187 Fluid Hose 6' x 1/2" NPT
- · Metered packages include:
 - 3120-067 In-Line Digital Meter
- Portable packages include:
 - 4310-001 Dolly Base, 120 lb/16 gal

MODELS AVAILABLE

1300-010Non-Metered Lube1300-009Non-Metered Grease1300-011Metered Lube1300-017Portable Non-Metered Lube1300-018Portable Metered Lube
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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 Bulletin - Lube	SB1016
Service Bulletin - Grease	SB1018

Pumps | Mobile Lube Equipment

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	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
			4	



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 (68.95 bar)

Material

Anodized Aluminum, Viton, and Stainless Steel

[~] 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.



Pumps | Piston Pump Repair Kits

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 PUM	PS	
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 ASSEMB
1130-016, 1130-018 & 1130-021	831615N	FLUID - COMPLETE PUMP REPLACEMENT ASSEME
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

Pumps | Piston Pump Repair Kits

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

02.1.0112.1.		
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

[~] NOTE~ Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line.

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Polypropylene			
CF10			

1120-023 Polypropylene

1120-025 Polypropylene/DEF

1120-027

	Polypropylene	Polypropylene	Polypropylene/DEF	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" BSP(F) & flange	1/2" NPT(F) & flange
Fluid outlet	1/2" NPT(F) & flange	1/2" NPT(F) & flange	1/2" BSP(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®)	Acetal
Diaphragms	Hytrel®	Hytrel [®]	Hytrel [®]	Hytrel [®]
Recommended fluids	Anti-freeze (Glycol) and windshield wash solution	Anti-freeze (Glycol) and windshield wash solution	Diesel exhaust fluid	Light viscosity fluids synthetic, mineral oils, used oil, and Anti-freeze (Glycol)
Recommended applications	Fluid dispensing, transfer, evacuation, and distribution systems			
Reference Data	·			
Catalog Page	58	59	59	59









	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" BSP(F) & flange	1" NPT(F) & flange
Fluid outlet	1/2" NPT(F)	1" NPT(F) & flange	1" BSP(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®)	Acetal
Diaphragms	Hytrel®	Hytrel [®]	Hytrel®	Hytrel [®]
Recommended fluids	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, used oil, and Anti-freeze (Glycol)
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, evacuation, and distribution systems	Fluid dispensing, transfer, evacuation, and distribution systems
Reference Data				
Catalog Page	60	61	61	61

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

[~] 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.



AODD | CenterFlo Information

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.

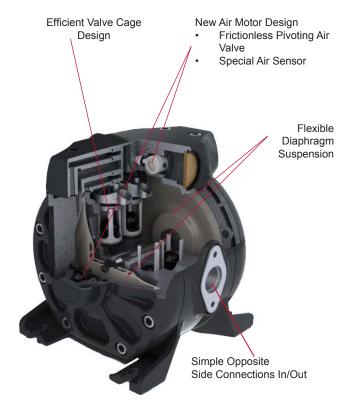
Advanced Technology

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.

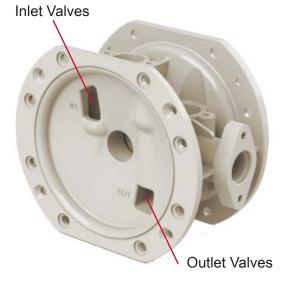


AODD | CenterFlo Information

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.



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.

~ NOTE~ Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line.

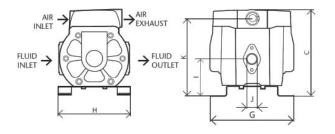
Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.





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)



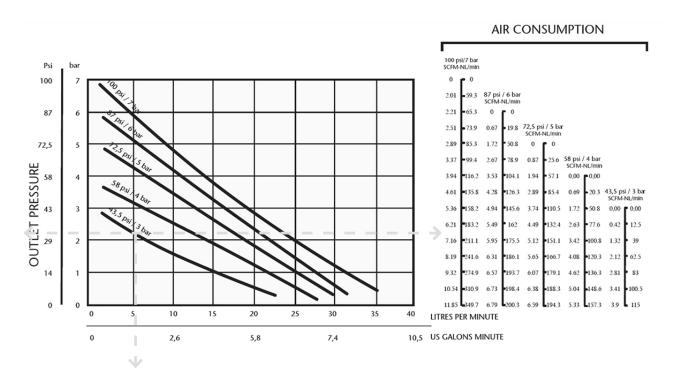
MODELS AVAILABLE

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	

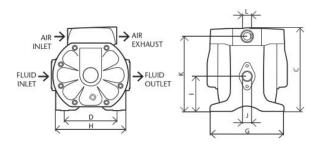
Service Bulletin	SB1121
Accessories pg.	62





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)



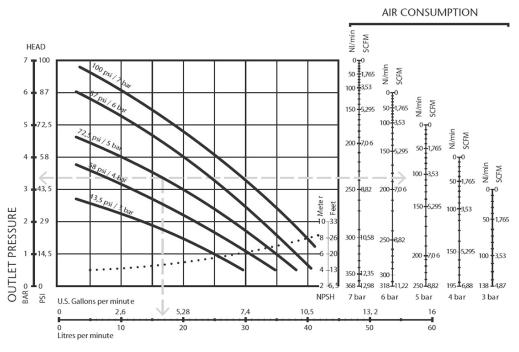
MODELS AVAILABLE

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

SPECIFICATIONS

01 2011 107 1110	110
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 1120-023 1120-025	Teflon®, Viton®, Polypropylene, Stainless Steel, Hytrel®
1120-027	Stainless Steel, Acetal, Buna-N®, Hytrel®, Viton®, and Aluminum
Recommended fluids 1120-023	Anti-freeze (Glycol) and windshield wash solution
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 Bulletin	SB1122
Accessories pg.	62



~ NOTE~ Pump packages include all hoses and adapters required for connecting an oil pump to the air supply, and oil dispense line.

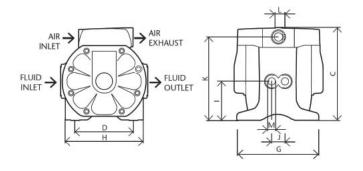
Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.





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)



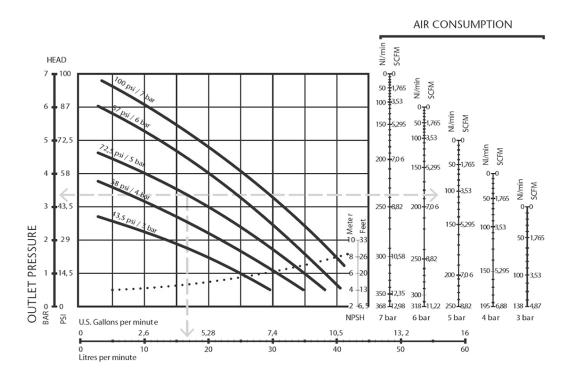
MODELS AVAILABLE

1120-028 CF15 Mixing

SPECIFICATIONS

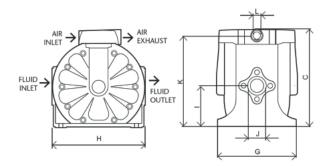
01 2011 10/1110110		
Air inlet	3/8" NPSM(F)	
Fluid inlet port	2 - 3/8" NPT(F)	
Fluid outlet port	1/2" NPT(F) & flange	
Max. free flow	14 gal/m (50 l/m)	
Air pressure range	45-100 psi (3-7 bar)	
Solids in suspension	1/8" (3 mm)	
Wetted Materials	Teflon®, Viton®, Polypropylene, Stainless Steel, Acetal, 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 Bulletin	SB1123
Accessories pg.	62





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

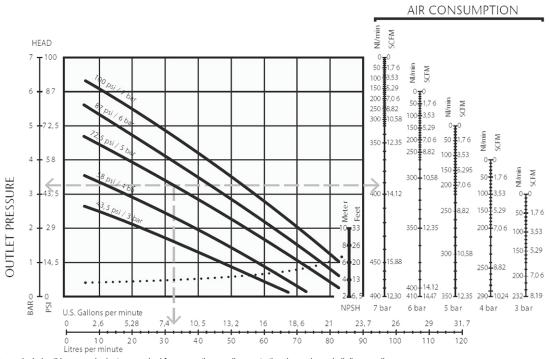
1120-026 CF30 Polypropylene **1120-024** CF30 Aluminum

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 1120-026 1120-031	PTFE Teflon®, Viton®, Polypropylene, Stainless Steel, and Hytrel®®
1120-024	PTFE Teflon®, Buna-N®, Acetal, Aluminum, Stainless Steel, and Hytrel®®
Recommended fluids 1120-026	Anti-freeze (Glycol) and windshield wash solution
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 Bulletin	SB1124
Accessories pg.	62



~ 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.



AODD | CenterFlo Accessories

COUPLERS, STRAINERS & VALVES

Y-Strainer - For filtering debris after the pump - 1,000 psi - (68.9 bar) all strainers have 60 mesh



3120-051	Y Strainer	1/2" NPT(F)
3120-010	Y Strainer	3/4" NPT(F)
3120-040	Y Strainer	1" NPT(F)

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 (206.8 bar)			NIPPLE-Dry Break 3,000 psi (206.8 bar)				
	THREAD SIZE	NPT(F)	NPT(M)	100	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 (206.8 bar)



Includes: Dry Break nipple and coupler

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

COUPLERS-CAMLOCKS

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

	CAMLOCK COUPLER			CAMLOCK 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
	CAMLOCK NIPPLE			Inc	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

AODD | CenterFlo Packages

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	Aluminum 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 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 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	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"
8145-005	LP Suction Rated Hose Assembly 10' x 1/2"
4140-016	Dry Break Coupler 3/4" NPT
806463	Bushing 3/4" MPT x 1/2" FTP
4411-025	Mounting Bracket for AODD Pumps

Evacuation Packages for Used Oil CF30



1121-018

1120-024

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

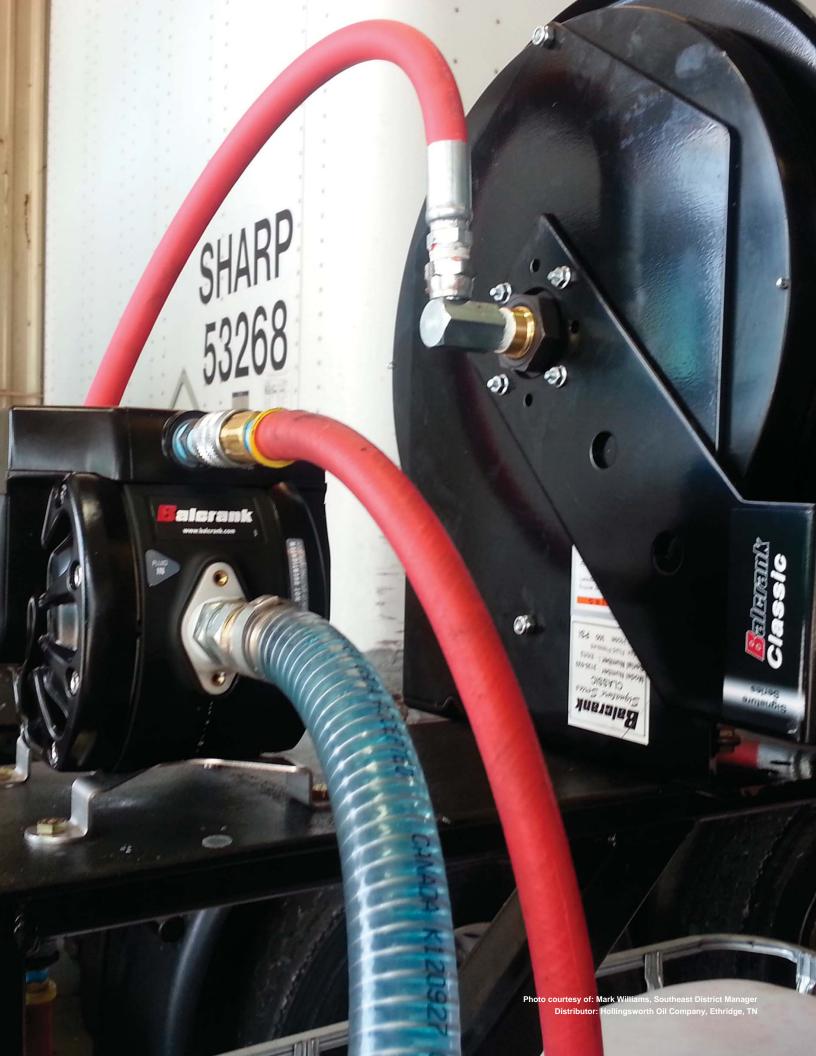
Aluminum CF30 Diaphragm Pump

	, ,
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
4411-025	Mounting Bracket for AODD Pumps

[~] 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.





Pumps | AODD Repair Kits

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

[~] 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.











1" 1120-013S Aluminum

1" UL 1120-015S Aluminum

1 1/2" 1120-017 Aluminum

2" 1120-030S Aluminum

	Aluminum	Aluminum	Aluminum	Aluminum
Maximum free flow	45 gal/m (1704 l/m)	45 gal/m (1704 l/m)	70 gal/m (1704 l/m)	150 gal/m (567 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 fluids	Light viscosity fluids synthetic, mineral oils, Used Oil, and Anti-freeze (Glycol)	Anti-freeze (Glycol) and windshield wash solution	Light viscosity fluids synthetic, mineral oils, Used Oil, and Anti-freeze (Glycol)	Light viscosity fluids synthetic, mineral oils, Used Oil, and Anti-freeze (Glycol)
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				
Catalog Page	64	65	66	67

AODD | Conventional 1" Aluminum



MODELS AVAILABLE

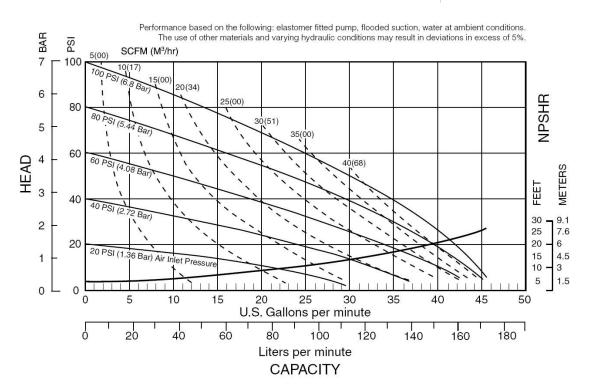
1120-013S 1" Aluminum AODD Pump

SPECIFICATIONS

Max. free flow	45 g/m (1704 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^{TM}
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.	53



~ 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.





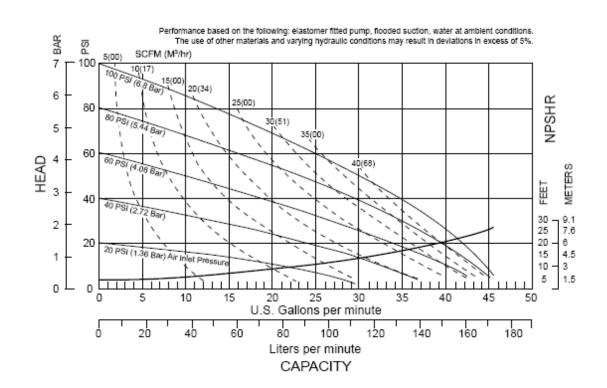
MODELS AVAILABLE

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, Used Oil, and Diesel Fuel
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems

Service Bulletin	SB1113
Accessories pg.	53



AODD | Conventional 1 1/2" Aluminum



MODELS AVAILABLE

1120-017

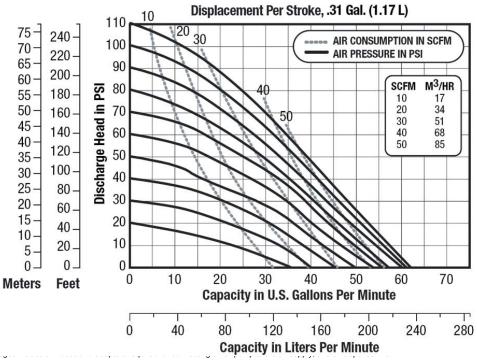
1 1/2" Aluminum AODD Pump

SPECIFICATIONS

70 gal/m (265 l/m)	
28 -110 psi (3.6 - 7.5 bar)	
3/16" (4.762 mm)	
1/2" NPT(F)	
1 1/2" NPT(F)	
1 1/2" NPT(F)	
Aluminum, Acetal, and Buna-N $^{\mbox{\tiny TM}}$	
Light viscosity fluids synthetic, mineral oils, and Used Oil	
Fluid dispensing, transfer, evacuation, and distribution systems	

SERVICE BULLETINS & ACCESSORIES

Service Bulletin	SB1069
Accessories pg.	53



Balcrank does not provide wall mounting hardware (nuts, bolts, and anchors) for lube packages.





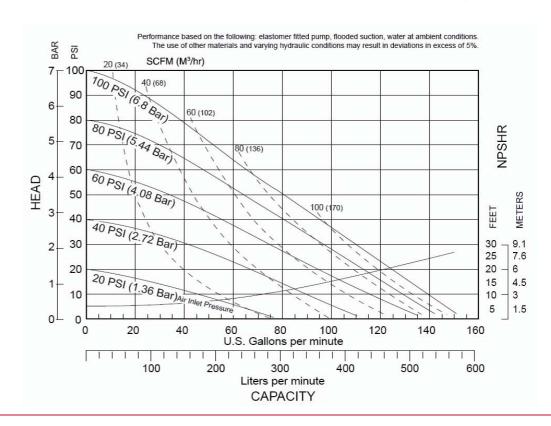
MODELS AVAILABLE

1120-030S 2" Aluminum AODD Pump

SPECIFICATIONS

0. = 0		
Max. free flow	150 gal/m (567 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, and Used Oil	
Recommended Applications	Fluid dispensing, transfer, evacuation, and distribution systems	

Service Bulletin	SB1118
Accessories pg.	53



AODD | Conventional Packages

1" Evacuation Kit



1121-011

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

1120-013S 4140-015 1" Poly Diaphragm Pump 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.

supply to pullip which levels a	i c i iigii.		
Features	4520-001	4520-002	
Overfill Pump Control	✓	✓	
Auto-shutoff	✓	✓	
Non-electric	✓	✓	
Sensing Tube	✓	✓	
Pump Controller	✓	✓	
Audible Alarm		✓	
0			

Service Bulletin SB4222

ACCESSORY KITS

4410-019	1" Wall Mount Kit	4140-015	1" Evacuation Kit
4411-016	Wall Mount Bracket	4411-016	Wall Mount Bracket
8134-005	Air Hose 5' x 3/8"	8134-005	Air Hose 5' x 3/8"
8264-005	Fluid Hose 5' x 3/4" (2)	8261-005	Fluid Hose 5' x 3/4"
3230-004	Air Ball Valve 1/2"	8261-003	Suction Hose 3' x 3/4"
3260-035	Filter/Reg, Auto Drain 1/4"	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	4140-026	3/4" Evacuation Kit
4411-016	Wall Mount Bracket	4411-016	Wall Mount Bracket
8134-005	Air Hose 5' x 3/8"	8134-005	Air Hose 5' x 3/8"
8249-005	Fluid Hose 5' x 1/2"	8261-005	Fluid Hose 5' x 3/4"
3230-003	Air Ball Valve 1/4"	3230-006	Fluid Ball Valve 3/8"
3260-034	Filter/Reg, Auto Drain 1/4"	8264-003	Suction Hose 3' x 3/4"
		3260-035	Filter/Reg, Auto Drain 1/4"
		4140-016	Coupler, Dry Break 3/4"
ACCESS	SORIES		

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	
3120-024	Pressure Relief for Diaphragm 1" NPT, 125 psi	

WALL MOUNT BRACKET:

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

[~] 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.

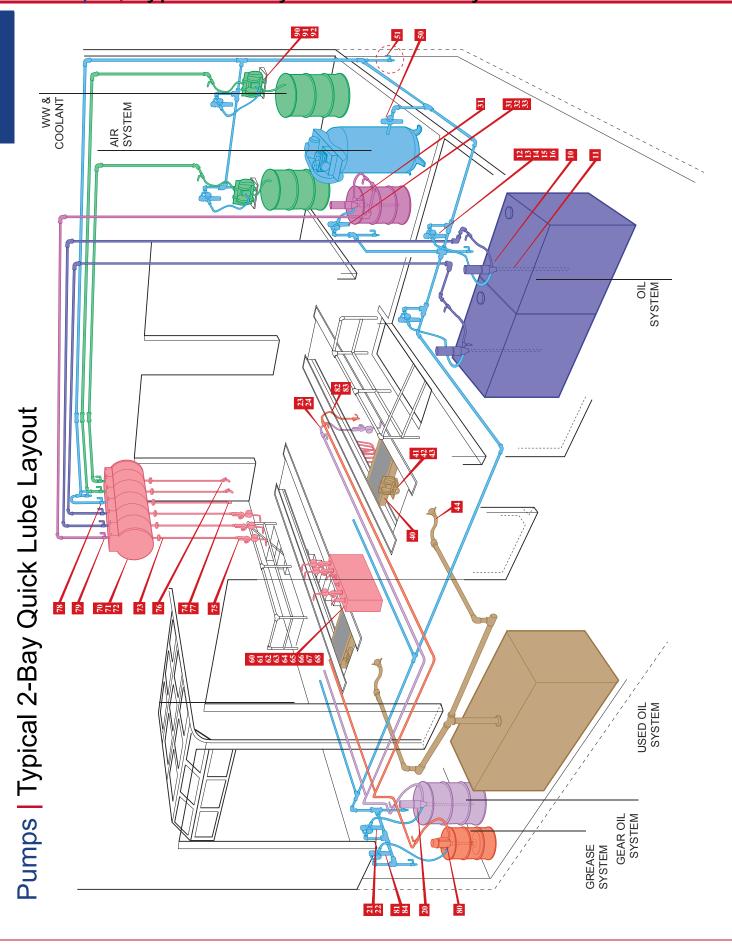


Pumps | AODD Repair Kits

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

SOUTH PROCESSING	WILL OF THE TENTOTEE	7 I.L. (DIOO 2010)
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





[~] 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.



Pumps | Piping Specifications

SERVICE FLUID LINE SIZE RECOMMENDATIONS

Motor Oil, Gear Lube, and Automatic Transmission Supply Line Recommendations

This chart provides pump and line diameter recommendations for various line lengths.

Recommendations in excess of 200 ft. should be validated using the frictional pressure loss formula. 300 psi malleable fittings suggested for ASTM-A53 buttwelded pipe.

LINE LENGTH (ft.)	PUMP	HYDRAULIC TUBING	ASTM-A53 BUTTWELDED PIPE
	LYNX 5:1		
Up to 50 ft.	PANTHER® HP 5:1	5/8" OD X .049" WALL TUBE	1/2" SCHEDULE 40
	LION™ HP 5:1		
Up to 50 ft.	LION™ HP 10:1	3/4" OD X .049" WALL TUBE	3/4" SCHEDULE 40
	LYNX 5:1		
50 to 100 ft.	PANTHER® HP 5:1	3/4" OD X .049" WALL TUBE	3/4" SCHEDULE 40
	LION™ HP 5:1		
50 to 100 ft.	LION™ HP 10:1	1" OD X .049" WALL TUBE	1" SCHEDULE 40
100 to 200 ft.	LYNX 5:1		1" SCHEDULE 40
	PANTHER® HP 5:1	1" OD X .049" WALL TUBE	
	LION™ HP 5:1		
100 to 200 ft.	LION™ HP 10:1	1 1/2" OD X .095" WALL TUBE	1.25" SCHEDULE 40
200 ft. and up	LYNX 5:1		
	PANTHER® HP 5:1	1 1/2" OD X .095" WALL TUBE	1.25" SCHEDULE 40
	LION™ HP 5:1		
200 ft. and up	LION™ HP 10:1	1 1/2" OD X .095" WALL TUBE	1.25" SCHEDULE 40

Chassis Grease Supply Line Recommendations

Grease has a very high static viscosity at rest, but can be easily pumped once the pump is primed with

LINE LENGTH (ft.)	PUMP	HYDRAULIC TUBING	ASTM-A53 OR A106 GRADE B SEAMLESS PIPE
Up to 50 ft.	PANTHER® HP 50:1	5/8" OD X .109" WALL TUBE	1/2" SCHEDULE 80
	LION™ HP 50:1	5/6 OD X :109 WALL TOBE	1/2 SCHEDULE 60
50 to 100 ft.	PANTHER® HP 50:1	5/8" OD X .109" WALL TUBE	1" SCHEDULE 160
	LION™ HP 50:1	5/6 OD X :109 WALL TOBE	
100 to 200 ft.	PANTHER® HP 50:1		1.25" SCHEDULE 160
100 to 200 ft.	LION™ HP 50:1		1.5" SCHEDULE 160
200 ft. and up	PANTHER® HP 50:1		1.5" SCHEDULE 160
	LION™ HP 50:1		1.5 SCHEDULE 100

Hose Reels









Features	Evolution	Classic	Premium
Mínimum 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	74	76	78

 ^{* 50&#}x27; on spool with 10' hanging
 ** Mining- special hoses could be required - contact Balcrank for further information.





Features	EV Extended Volume	EVX Extended Volume eXtra
Mínimum 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	80	82

 ^{65&#}x27; 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, reduces 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

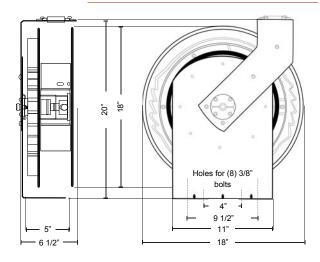
Classic, Evolution and Premium hose reels utilize the same foot print, and mounting accessories 2.5' Inlet

Connecting Hose Included
Provides additional flexibility for

your installation.



DIMENSIONS







AVAILABLE MODELS

Air & Water Low Pressure 300 psi for delivery of air, water, coolant, and windshield washer fluid.

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 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 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	

Evolution Hose Reel enclosures are available. See page 84 for details.



SPECIFICATIONS

	Low & Medium Pressure Reels		
	Fluid inlet port	1/2" NPT(F) swivel	
	Fluid outlet port	1/2" NPT(F) swivel	
	0 11 1 11	1/4" NPT(M) for 3/8" ID Hoses	
Outlet thread	Outlet thread	1/2" NPT(M) for 1/2" ID Hoses	
V	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	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.

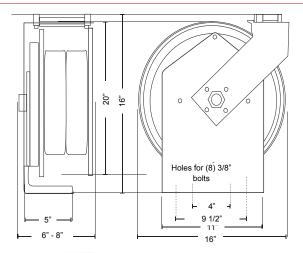
Custom colors are available on all Classic open and enclosed reels. Balcrank's STANDARD paint color for reels is semi-gloss black.

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







Classic Hose Reel enclosures are available. See page 84 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
Outlet tillead	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 for delivery of air, water, coolant, and windshield washer fluid.

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	8134-030
2120-005	40' X 3/8" ID hose	8134-040
2120-015	50' X 3/8" ID hose	8134-050
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-Nitrogren	8135-030
2120-026**	50' X 3/8" ID hose-Nitrogren	8135-050

Oil Medium Pressure 3,000 psi 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 & 5,000 psi 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 (10.3 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 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, reducing 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 dismounting the reel. Power Spring tension can be adjusted on site by removing one arm adding or removing hose wraps from the spool.

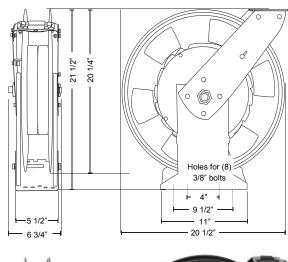
Easy Installation Mounting and Accessories

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 there ad	1/2" NPT(M) for 3/8" ID Hoses
Outlet thread	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
	1/4" NPT(M) for 1/4" ID Hoses
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	SB2027
Accessories pg.	89

AVAILABLE MODELS

Air & Water Low Pressure 300 psi for delivery of air, water, coolant, and windshield washer fluid.

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 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 & 5,000 psi 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

50' x 3/8" ID hose 4,000 psi

40' x 1/4" ID hose 5,000 psi

50' x 1/4" ID hose 5,000 psi

60' x 3/8" ID hose

60' x 1/4" ID hose

(50' + 10')* 5,000 psi

(50' + 10')* 4,000 psi

8332-050

8332-060

8323-040

8323-050

8323-060

2111-046

2111-047

2111-042

2111-043

2111-044



^{* 50&#}x27; 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.



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, reduces 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.

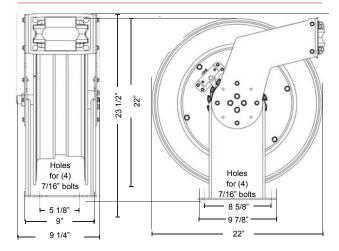
2.5' Inlet Connecting Hose Included

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 for delivery of air, water, coolant, and windshield washer fluid.

Item	Description	Hose
2310-033	Bare reel - up to 75" x 1/2" (65' + 10')* or 50' x 3/4"	
2310-027	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 for delivery of lubricants.		
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 for delivery of diesel.

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 (10.3 bar) for delivery of diesel exhaust fluid.

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&#}x27; on spool with 10' hanging

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™

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Accessories pg.	89



Hose Reels | EVX Extended Volume eXtra

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.

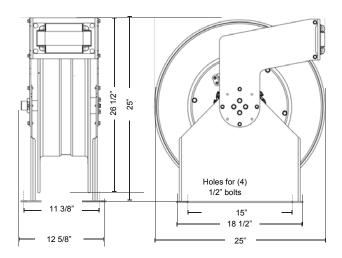
2.5' Inlet Connecting Hose Included

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 for delivery of air, water, coolant, and windshield washer fluid.

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 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 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	
2310-042	50' x 1" ID hose Evacuation	

^{*} 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	SB2029
Accessories	89



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, see page. 85



2510-011

AVAILABLE MODELS

Air & Water Low Pressure 300 psi for delivery of air, water, coolant, and windshield washer fluid.

2240-011	50 X 1/2 ID Hose Evo	0141-050
2240-011	50' x 1/2" ID hose Evo	8141-050
2240-010	30' x 1/2" ID hose Evo	8141-030
2220-011	40' x 3/8" ID hose Classic	8136-040
2220-010	30' x 3/8" ID hose Classic	8136-030
2240-008	50' x 3/8" ID hose Evo	8136-050
2240-007	30' x 3/8" ID hose Evo	8136-060

Oil Medium Pressure 3,000 psi 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 & 5,000 psi 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			

Custom Reels

2510-010

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

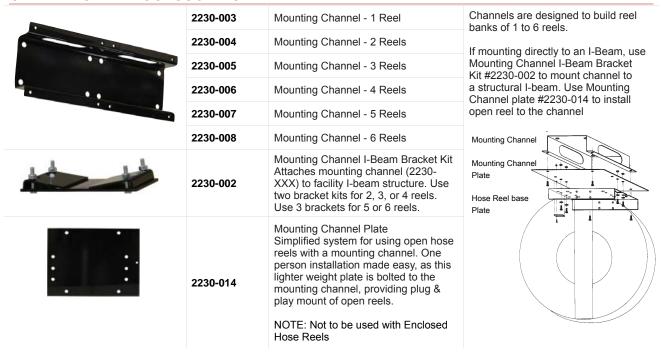
Custom colors are available on all Classic open and enclosed reels. Balcrank's STANDARD paint color for reels is semi-gloss black.

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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CHANNELS AND ACCESSORIES



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.
LICOE DEEL ACCECCOD	150	

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



Use our exclusive saddle bracket, Model 4520-006 to quickly attach Balcrank hose reels to any 275 g or 550 g 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.

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
- 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.	152

ACCESSORIES

7.0020011120		<u> </u>
	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

Hose Reels | Replacement Hoses

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MODEL	Y L L	8132	8134	8135		8136	8141	8142	8144	8145	8146	8149	8161	8171	8181	8241	8242	8249	8250	8261	8262	8263	8264	8281	8321	8322	8323	8331	8332	8333	8334	8340	8466	8481		8551	8560	8561	8562	8269	8570	8572 For complet





Control Handles





Features	DR Meter	In-Line Series Electronic	Pro-Series Electronic	Pro-Series Analog			
Unit of Measure	gal, qt., pt., l	gal, qt., pt., l	gal, qt., pt., l	gal, qt., pt., l			
Flow Range	0.26-8 gal/m (1-30 l/m)	0.27-7 gal/m (1-25 l/m)	0.26-8 gal/m (1-30 l/m)	0.26-8 gal/m (1-30 l/m)			
Maximum Pressure	1450 psi (100 bar)	1,000 psi (70 bar)	1,000 psi (70 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	Engine oil, (up to SAE 140), ATF, Anti-freeze (Glycol), Anti-freeze water solution	Engine oil, ATF, with a maximum viscosity of SAE 140	Engine oil, ATF, and Anti-freeze (Glycol) with a maximum viscosity of SAE 140	Engine oil, ATF, and Anti-freeze (Glycol) with a maximum viscosity of SAE 140			
Reference Data							
Catalog Pages	92	95	96	97			



Features	Classic Mechanical	Classic Mechanical Pre-settable	In-Line Non-Metered	Hi-Flo Non-Metered			
Unit of Measure	gal, qt., pt., l	gal, qt., pt., l	gal, qt., pt., l	gal, qt., pt., l			
Flow Range	0.26-8 gal/m (1-30 l/m)	.4-4 gal/m (1.51-15.1 l/m)	8-12 GAL/M (3045.4 L/M)	16.4 GAL/M (62 L/M)			
Maximum Pressure	1,000 psi (70 bar)	1,000 psi (70 bar)	1,000 psi (70 bar)	1,500 psi (103 bar)			
Oil Dispense	✓	✓	✓	✓			
Anti-freeze (Glycol)/ Windshield	✓	✓	✓	✓			
Metered	✓	✓					
Non-metered			✓	✓			
High Volume Applications			✓	✓			
Light to medium duty	✓	✓	✓	✓			
Heavy duty	✓	✓	✓	✓			
Recommended Fluids	Engine oil, ATF, and Anti-freeze (Glycol) with a maximum viscosity of SAE 140	Engine oil, ATF and Anti-freeze (Glycol) with a maximum viscosity of SAE 140	Engine oil, ATF, Anti-freeze (Glycol), and windshield washer fluid with a maximum viscosity of SAE 140	Engine oil, ATF, Anti- freeze (Glycol), and windshield washer fluid with a maximum viscosity of SAE 140			
Reference Data							
Catalog Pages	98	99	100	101			



Control Handles | Digital Register DR Meter



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

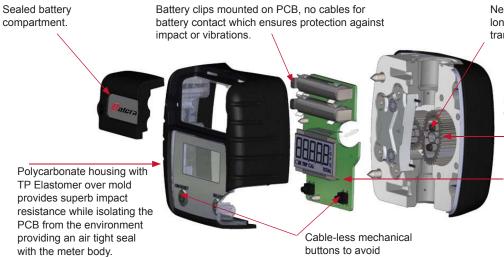
The DR meter carries with it new innovative technology in a digital meter. Our new meter is precision balanced, lightweight and ergonomically designed. Simple, accurate and efficient, this meter combines new features with proven oval gear technology.



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

- No calibration required: Liquid Crystal Polymer gears (LCP), stainless steel shafts, and a precision machined aluminum die-cast fluid chamber maintains the tight tolerances needed for repeatable accuracy. Together with individual testing for performance and accuracy guarantees precise dispensing regardless of the fluid viscosity, outside temperature, and system pressure.
- 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 repairability: ERC can be changed easily.





Neodymium magnets ensure long life and reliable pulses transmission to reed switch.

LCP gears and stainless steel shaft provide excellent product compatibility and fatigue resistance.

Low power consumption PCB with auto-sleep function for improved battery life.



AVAILABLE MODELS

contact failures.

Model	Extension Typ	Extension Type & Nozzle							
3330-157	Rigid	1/4 turn manual*							
3330-158	Flex 90	1/4 turn manual*							
3330-159	Flex-memory	1/4 turn manual*							
3330-160	Flex 90	Auto							
3330-161	Flex	Auto							

^{*}See Dispense nozzle OD for important details

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 ¼ turn = 0.705" 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	Engine oil (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, and Brass					

Service Bulletin	SB3095
Accessories pg.	92

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.

DR NOZZLES



DR EXTENSIONS & NOZZLES

Model	Inlet	Ext. Type	Nozzle
3332-093	3/8" NPT(M)	Flex with Metal Memory	1/4 Turn Manual Tip OD = 0.705" Verify ID of ATF fill port for compatibility.
3332-095	3/8" NPT(M)	Flex	Auto Tip OD = 0.605" Verify ID of ATF fill port for compatibility.
3332-092	3/8" NPT(M)	Flex 90	1/4 Turn Manual Tip OD= 0.705" Verify ID of ATF fill port for compatibility.
3332-094	3/8" NPS(M)	Flex 90	Auto Tip OD = 0.605" Verify ID of ATF fill port for compatibility.
3332-091	3/8" NPS(M)	Rigid 60	1/4 Turn Manual Tip OD= 0.705" Verify ID of ATF fill port for compatibility.

Control Handles | In-Line Series Electronic



Set of Colored Identification Caps included with each model

FEATURES

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

AVAILABLE MODELS

Model	Extension Type & Nozzle		
3330-142	Rigid Manual		
3330-143	Flex	Manual	
3330-144	Flex 90	Manual	
3330-148	Rigid	Auto-Lock	
3330-149	Flex	Auto-Lock	
3330-150	Flex 90	Auto-Lock	

SPECIFICATIONS

Units of Measure	Batch: Liters, Gallons, Quarts, and Pints Totalizer: Liters and Gallons	
Accuracy	+/- 0.5% of reading (lubricating oils)	
Flow Range	.25-7 gal/m (1-25 l/m)	
Max pressure	1,000 psi (70 bar)	
Swivel inlet:	½" NPT	
Operating temp	32 °F -140 °F (0° C-60 °C)	
Weight	3.2 lb (1.55 kg)	
Battery	2 x 1.5v alkaline "AAA"	
Compatible Fluids	Engine oil, ATF with a maximum viscosity of SAE 140	
Wetted Materials	Aluminum, Acetal, steel, and Buna-N™	

Service Bulletin	SB3070
Accessories pg.	102







831992	Protective elastomer guards against shock damage of meter body and dial face. Fits Pro-Series handles
831992BL	Pro-Series shrouds, Set of 4 Blue
831992GR	Pro-Series shrouds, Set of 4 Green
831992RD	Pro-Series shrouds, Set of 4 Red
831992YL	Pro-Series shrouds, Set of 4 Yellow

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

AVAILABLE MODELS

Model	Extension Type & N	Extension Type & Nozzle	
3331-014	Straight	Semi-Automatic	
3331-020	Flex	Semi-Automatic	
3331-012	Bare		

Manual nozzle assembly not recommended for this meter

SPECIFICATIONS

Units of measure	Gallon, Liter, Quart, and Pint
Accuracy	+/- 0.5% of reading (lubricating oils)
Flow Range:	0.26-8 US gal/m (1-30 l/m)
Max pressure:	1000 psi (103.5 bar)
Swivel inlet:	1/2" NPT
Operating temp:	32°F -122°F (0°C - 50°C)
Battery:	2 x 1.5 volt alkaline "AA"
Weight:	2.55 lb (1.16 kg)
Compatible Fluids	Engine oil, ATF and Anti-freeze (Glycol) with a maximum viscosity of SAE 140
Wetted Materials	Aluminum, acetal, steel, Buna-N™

Service Bulletin	SB3021
Accessories pg.	102

Control Handles | Pro-Series Analog Display



FEATURES

- One piece cast Aluminum housing
- Shock resistant 4-digit resettable batch totalizer
- Non-resettable 6-digit accumulative totalizer
- · One touch batch reset operation
- · Oval gear mechanism for optimum accuracy
- Two outlet nozzle positions (pistol style fits a straight extension and the in-line style fits rigid, flex or flex 90 extension) with automatic and semi-automatic nozzle.



831969	Protective elastomer guards against shock damage of meter body and dial face. Fits Pro-Series handles
831969BL	Pro-Series Series shrouds, Set of 4 Blue
831969GR	Pro-Series Series shrouds, Set of 4 Green
831969RD	Pro-Series Series shrouds, Set of 4 Red
831969YL	Pro-Series Series shrouds, Set of 4 Yellow

AVAILABLE MODELS

Model	Extension	Extension Type & Nozzle	
3330-037	Rigid	Automatic	qt
3330-038	Flex	Automatic	qt
3330-039	Flex 90	Automatic	qt
3330-060	Straight*	Automatic	qt
3330-071	Rigid	Semi-Automatic	qt
3330-073	Flex	Semi-Automatic	qt
3330-074	Flex 90	Semi-Automatic	qt
3330-072	Straight*	Semi-Automatic	qt
3330-049	Bare		qt
3330-040	Rigid	Automatic	I
3330-041	Flex	Automatic	I
3330-042	Flex 90	Automatic	I
3330-061	Straight*	Automatic	I
3330-075	Rigid	Semi-Automatic	I
3330-077	Flex	Semi-Automatic	I
3330-078	Flex 90	Semi-Automatic	I
3330-076	Straight*	Semi-Automatic	I
3330-050	Bare		1

Manual nozzle assembly not recommended for this meter * Pistol Grip

SPECIFICATIONS

Units of measure	Gallon, Liter, Quart, and Pint		
Accuracy	+/- 0.5% of reading (lubricating oils)		
Flow Range:	0.26-8 US gal/m (1-30 l/m)		
Max pressure:	1000 psi (103.5 bar)		
Swivel inlet:	1/2" NPT		
Operating temp:	32°F -122°F (0°C - 50°C)		
Weight:	2.55 lb (1.16 kg)		
Compatible Fluids	Engine oil, ATF and Anti-freeze (Glycol) with a maximum viscosity of SAE 140		
Wetted Materials	Aluminum, acetal, steel, Buna-N™		

Service Bulletin	SB3022
Accessories pg.	102



Control Handles | Classic Mechanical Display



Model	Extension Ty	Unit of Measure	
3330-140	Flex 90	Auto-Lock	pt
3330-080	Flex 90	Semi-Automatic	pt
3330-008	Straight	Auto-Lock	qt
3330-009	Flex	Auto-Lock	qt
3330-010*	Straight	Auto-Lock	qt
3330-081	Straight	Semi-Automatic	qt
3330-082	Flex	Semi-Automatic	qt
3330-083*	Straight	Semi-Automatic	qt
3330-051	Bare		qt
3330-141	Flex 90	Auto-Lock	I
3330-017	Straight	Auto-Lock	I
3330-019	Flex	Auto-Lock	I
3330-084	Flex 90	Semi-Automatic	I
3330-085	Straight	Semi-Automatic	I
3330-086	Flex	Semi-Automatic	I
3330-052	Bare		ı

^{*} Anti-freeze (Glycol) Compatible

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
- Choose from flex, flex 90, or straight extension with semiautomatic and auto-lock nozzle.



3332-005

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

SPECIFICATIONS

Units of measure	Gallon, Liter, Quart, and Pint
Accuracy	+/- 0.65% of reading (lubricating oils)
Flow Range:	0.4-4 US gal/m (1.5-15 l/m)
Max pressure:	1000 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	Engine oil, ATF and Anti-freeze (Glycol) with a maximum viscosity of SAE 140
Wetted Materials	Aluminum, steel, Buna-N™

Service Bulletin	SB3025
Accessories pg.	102-103



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

- · 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.

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	Engine oil, ATF and Anti-freeze (Glycol) with a maximum viscosity of SAE 140
Wetted Materials	Aluminum, steel, Buna-N™



3332-005

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

<u> </u>	
Service Bulletin	SB3035
Accessories pg.	102







- Balanced ergonomic design
- Four extra valve covers for fluid identification: red, blue, yellow, green (standard - black)
- Inlet screen included

AVAILABLE MODELS

Model	Extension Type & Nozzle			
3320-022	Rigid	Manual 1/4 Turn = 0.705" Verify ID of ATF fill port fo compatibility.		
3320-023	Flex 90	Manual 1/4 Turn = 0.705" Verify ID of ATF fill port for compatibility.		
3320-024	Flex Memory	Manual 1/4 Turn = 0.705" Verify ID of ATF fill port for compatibility.		
3320-025	Flex 90	Auto = 0.605" Verify ID of ATF fill port for compatibility.		
3320-026	Flex	Auto = 0.605" 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	Engine oil, gear oil, automatic transmission, Anti-freeze (Glycol), and windshield washer fluid with a maximum viscosity of SAE 140
Wetted Materials	Aluminum, Zinc Plated Steel, and Buna-N™

Service Bulletin	SB3008
Accessories pg.	102-103



High Flow Control Handle is designed for service where larger volume deliveries are required. Features include a semi-automatic tip and a trigger lock.

- Used where desired flow rate is greater than 8 gal/m. Ideal for bulk fill, transfer, and high flow dispense
- Heavy duty rigid design Bulk fill capability

APPLICATIONS

- Off-Road vehicles
- Mining
- Truck Shops
- Lube Trucks
- Diesel

AVAILABLE MODELS

3320-050	Hi-Flow Handle

SPECIFICATIONS

Flow Range	16.4 gal/m (64 l/m)
Max pressure	1,500 psi (70 bar)
Swivel inlet:	3/4" NPT
Operating temp	32 °F (0° C) to 140 °F (60 °C)
Weight	4 lb (1.8kg)
Compatible Fluids	Engine Oil, Diesel, Oil, ATF, Antifreeze, Gear Oil Maximum viscosity SAE 140
Wetted Materials	Aluminum, Carbon Steel, Brass, and Buna- N^{TM}

Service Bulletin	SB3087
Accessories pg.	102-103



Control Handles | Accessories

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
Balcrank	3120-067	Oil, ATF	Gallon, Pint, Quart Liter

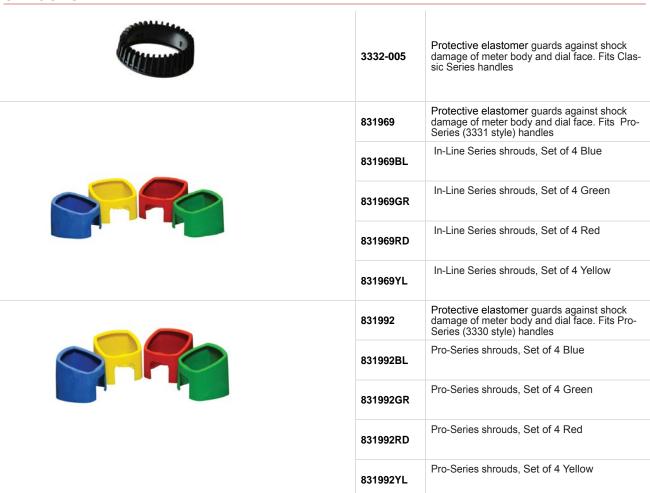
NOZZLES (NOT for use with the DR handles)

Item	Inlet	Units of Measure	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
River	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	Auto
	3332-015	3/8" NPT(M)	Flex	Auto
	3332-049	3/8" NPS(M)	Flex	Semi-Auto
Section Line of the section of the s	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	Auto
	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

SHROUDS







- · 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
- · Easily repaired for extended life

AVAILABLE MODELS

, to, tie, the in order	
3310-026	Non-boosting Grease Handle
3310-027	Non-boosting Grease Handle with 18" Whip Hose
3310-028	Non-boosting Grease Handle with 36" Whip Hose

CONTROL HANDLE SPECIFICATIONS

Max pressure	5000 PSI (345 BAR)
Swivel inlet:	1/4" NPT(F)
Compatible Fluids	NLGI #2 Grease
Wetted Materials	Steel

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3044
Accessories pg.	106



3310-027



- 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)
Weight	
Compatible Fluids	NLGI #2 Grease
Wetted Materials	Steel

SERVICE BULLETIN & ACCESSORIES

Service Bulletin	SB3018
Accessories pg.	106



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.

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 (689.5 bar)
Swivel inlet	1/4" NPT(M)
Weight	
Compatible Fluids	NLGI #2 Grease
Wetted Materials	

Service Bulletin	SB3006
Accessories pg.	106

Control Handles | Oil Dispensing Equipment

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 1/6" NPT(M) fittings on each end. For grease applications up to 5,000 psi. 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 working pressure. 1/8"-27 NPT threads.

5310-020 Grease Coupler

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 working pressure



Control Handles | Oil Dispensing Equipment



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
----------	-----------------------------

OIL BAR SPECIFICATIONS

Recommended Fluids	Engine oil, gear oil, ATF, Hydraulic Fluid NOTE: fluids must be compatible with wetted materials	
Max. working Pressure	1,000 psi (68.9 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.	142

FEATURES

- Smooth trigger actionAnti-splash flow diffuser
- Shut-off valve

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 tapper pumps)

SPIGOT SPECIFICATIONS

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

Service Bulletin	SB4037
Accessories pg.	142







Fluid Inventory Control







Features	Director Jr.	Spectrum 100™
Max. number of dispense points	10	64
Max. number of fluids	1	4
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	
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	
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		
Print reports		✓
Print receipt		✓
Custom reports		
Bar Code/ Card reader/Dallas Key		
Wireless		
Reference Data		
Catalog Page	112	113



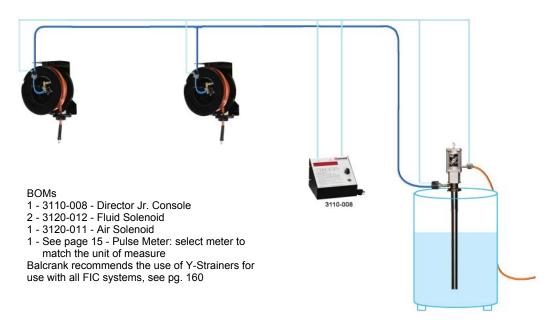




Features	fusion 2.4 Central Controlled	fusion 2.4 Distributed Controlled	Synergy
Max. number of dispense points	48	250	255
Max. number of fluids	8	16	Unlimited
Fluid names	✓	✓	✓
Number of keypads	1	36	Unlimited
Job number validation		✓	✓
Job numbers	✓	✓	✓
Integration to DMS system			✓
Simultaneous keypad operation		✓	✓
Simultaneous dispense	✓	✓	✓
Max. number of tanks	8	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	50	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	1,200	Unlimited	Unlimited
Print reports	✓	✓	✓
Print receipt	✓		Local/Network
Custom reports		✓	✓
Bar Code/ Card reader/Dallas Key			✓
Wireless	✓	✓	
Reference Data			
Catalog Page	118	1120	122

Fluid Inventory Control | Director Jr.

Example of Mid-Range Director Jr. System





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 pt, quarts, gal, 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

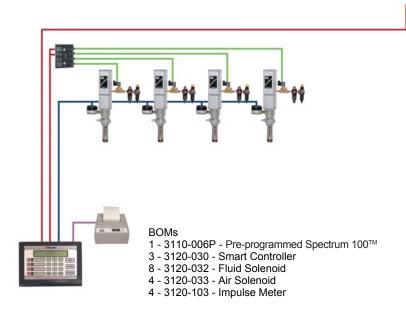
COMPONENT SPECIFICATIONS

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	SB3045
Accessories pg.	114 & 141

Fluid Inventory Control | Spectrum 100™

Typical Spectrum SYSTEM Layout - Four Fluids to Two Stations





8 - 3120-031 - Ready Light

3121-xxx - Communication Power Cable

3122-xxx - Impulse Meter Cable

3123-xxx - Solenoid Cable

Balcrank recommends the use of Y-Strainers for use with all FIC systems, see pg. 160



Spectrum 100 manages up to 4 fluids to a maximum of 16 dispense per fluid points, 2 fluids to 32 dispense points, or 1 fluid to 64 dispense points. PIN security, printed job tickets, tank level management functions including current level, tank capacity and low level alert. Typical applications include small to medium dealerships, multi-fluid garages, quick lubes and many more.

FEATURES

- Spectrum 100™ Capacity: up to 4 fluids to 16 stations, 2 fluids to 32 stations, or 1 fluid to 64 stations
- Electronic queuing of up to five dispenses per fluid
- · Automated priority assignment of dispense in the queue
- Optional job ticket printer capable of printing a record of each transaction, as well as daily and monthly historic dispense-log reports
- Self-test diagnostic procedure at each power-up of the system
- PIN identification of up to 32 operators with separate protected ID for up to 5 program management functions
- Tank level management including current tank level, tank capacity, and tank low-level alert
- Small console footprint: 7" L x 5" W x 1-36" H
- · Fluid measurement: pt, quarts, gals, or liters
- Service fluids: motor oils, synthetics, ATF, gear oil, Antifreeze (Glycol)
- · Pre programmed and tested before leaving the factory

MODEL AVAILABLE

3110-006P

COMPONENT SPECIFICATIONS		
Function Electronic queuing of up to five dispenses per fluid		
Requirements & Limitations	Maximum distance from console to solenoid valve is 1,100 ft.	
Power	Input -110 VAC	

Output - 24 VAC

Pre-programmed Spectrum 100™

Service Bulletin	SB3028
Accessories pg.	114 & 141



Fluid Inventory Control | Director Jr. Accessories

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	
	Air Solenoid Valve	Pressure	200 psi (13.8 bar)
		Connection	3/8" NPT(F/F)
3120-011		Power	24 VAC

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



Model #	Description	Component Specifications	
		Pressure	1,500 psi (103.4 bar)
		Connection	1/2" NPT(F/F)
3120-012	Fluid Solenoid Valve	Power	24 VAC

Y-Strainer For filtering debris after the pump - 1,000 psi (68.95 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.



Ready Light

Alerts technician when fluid batch is available for dispensing.

Fluid Inventory Control | Spectrum 100™ Accessories

SPECTRUM 100™

Smart Controller- Controls air and fluid solenoid valves, operates ready lights, and stores queuing console system data.



Model #	Description	Component Specifications	
3120-030	Smart Controller	Power	24 VDC

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	
3120-033 Air Solenoid Valve	Air Solenoid Valve	Pressure	200 PSI
		Connection	3/8" NPT(F/F)
	Power	24 VDC	

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



Model #	Description	Component Specifications	
3120-032 Fluid Solenoid Valve	Fluid Solenoid Valve	Pressure	1,500 psi
		Connection	1/2" NPT(F/F)
		Power	24 VDC

Impulse Meter



Model #	Description	Component Specifications	
3120-103	Pulse meter	Connection	1/2" NPSM (F)
		Pulses	100 PPL-95 PPQ

Ticket Printer



3120-035	Dimensions 4.1" x 4.5" x 2". Impact dot matrix printer, prints system dispense reports on 24 character
	line width using 2.25" cash register paper tape roll.
	Includes 3 ft. communication cable and power adapter
	with 6 ft. cord.

INSTALLATION CABLE

Three types of installation cables are required to install the Spectrum 100™ System: Communication/Power, Solenoid Valve, and Impulse Meter. Custom bundled wires reduce installation time. For complete hose model specification, combine "Model Prefix" with a "Length Suffix" in the right-hand table.

Example: Model 3122-100 = 100 ft. of Impulse meter cabling.

Cable Description	Model Prefix	Length Suffix
Communication/Power	3120	-050, -100, -150, -200, -250, -500, -000
Impulse Meter	3122	-050, -100, -150, -200, -250, -500, -000
Solenoid Valve	3123	-050, -100, -150, -200, -250, -500, -000

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



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

Y-Strainer For filtering debris after the pump - 1,000 psi (68.95 bar) - all strainers have 60 mesh



3120-051	1/2" NPT(F)	Pressure	1,000 psi (68.95 bar)
3120-010	3/4" NPT(F)	Material	Ductile Iron
3120-040	1" NPT(F)	Includes	Plug



Fluid Inventory Control | fusion 2.4

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.

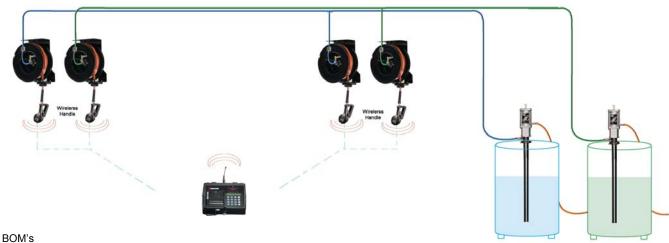
- Controls up to 250 outlets
- ✓ Manages up to 16 fluids
- ✓ Tracks up to 24 control handles per single keypad
- ✓ Secures operating levels with up to 250 user ID's
- ✓ Manage simultaneous dispense locations all dispenses are recorded.
- Unlimited work order stacking allows mechanic to select pre-loaded 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
- \checkmark 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 you Balcrank representative for additional information.



Fluid Inventory Control | fusion 2.4 (CCS)

Example of Mid-Range fusion 2.4 CCS System



1 - 3110-026 - Central Control Keypad

4 - 3331-021 - Wireless Handles

select the handle extension that best suit your needs, see page 121

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

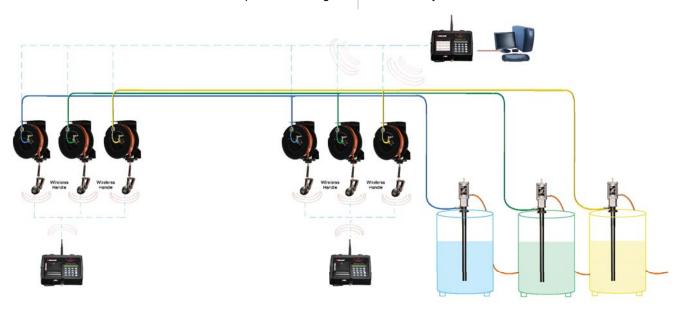
COMPONENT SPECIFICATIONS

Function	Wirelessly monitor and control fluid dispense	
Requirements & Limitations	 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) 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 (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 121

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





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

WODELOTWILLIDEE		
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	 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



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	

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

fusion 2.4 Accessories

Remote Antenna		
Allows for remote mounti	ng 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 p	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.

Y-Strainer For filtering debris after the pump - 1,000 psi (68.95 bar) - all strainers have 60 mesh



3120-051	1/2" NPT(F)	Pressure	1,000 psi (68.95 bar) @ 100°F (67.8°C)
3120-010	3/4" NPT(F)	Material	Ductile Iron
3120-040	1" NPT(F)	Includes	Plug



Fluid Inventory Control | Synergy

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 East 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. 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.

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

Fluid Inventory Control | Synergy

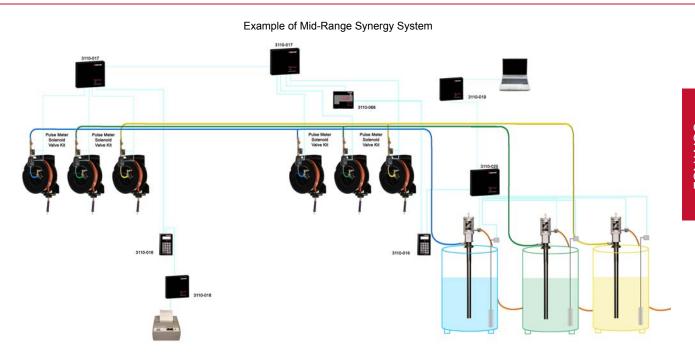
System Control

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:

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

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.



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 129
- 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

COMPONENT SPECIFICATIONS

Function	Module controls 4 dispense points/solenoids	
Requirements & Limitations	 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
COMPONENT SPECIFICATIONS	
Function	Module allows remote entry of PIN, job number, fluid, etc.
Requirements & Limitations	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



PC INTERFACE MODULE

Features

3110-019

- · 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

PC Interface Module

MODEL AVAILABLE

COMPONENT SPECIFICATIONS	
Function	Allows PC Interface
Requirements & Limitations	PC Requirements: 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 Graphically view system Set system time Update tank levels Simple data export
Power	Input - 24 VDC, output - 24 VDC



TANK CONTROL MODULE

eatures

- 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 in 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 cannt 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	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

PRINTER MODULE

Features

Power

- · 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	 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

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	
COMPONENT SPECIFICATIONS		
Function	Controls pumps, automatic start & stop	
Requirements & Limitations	 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	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	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

Professional Software



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. Also includes ferrules for use with Spectrum 100™ installation.



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)

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

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. 160. *Order one per dispense point for use with Synergy*

1-offamer on the dispense side of the pump, see p	page. 100. Order	one per dispens	c point for use with Syrici	99
	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	
			Pressure	7250 psi (500 bar)
	3120-074	Grease	Connection	In: 3/8" NPT(M) Out: 1/8" NPT(M)
			Power	24 VDC
	Model #	Description	Component Specifications	
			Pressure	145 psi (10.3 bar)
Designation of the latest of t	3120-075	Diesel	Connection	3/4" NPT(M/M)
			Power	24 VDC
	Model #	Description	Component Specifications	
			Pressure	725 psi (50 bar)
	3120-077	Windshield Washer Fluid	Connection	1/2" NPT(M/M)
			Power	24 VDC
Film	Model #	Description	Component Specifications	
			Pressure	725 psi (50 bar)
N 1997	3120-078	DEF	Connection	1/2" NPT(M/M)
			Power	24 VDC



Fluid Inventory Control | Pump Sentinel



PUMP SENTINEL

Features

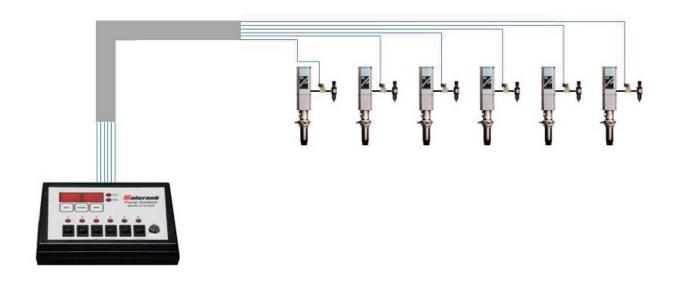
- Capable of preventing fluid theft by using switches to enable or disable up to six pumps
- Master key needed to turn system on
- 6' cable to run to junction box
- Small Console footprint: 6.5" L x 5" W x 3" H

AVAILABLE MODELS

Service Bulletin

3110-009	Pump Sentinel Console	
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	

SB3048



Fluid Inventory Control | Tank Guardian



The PC Interface and Software enables the user to connect up to 12 Tank Guardian level gauges and provides a visual representation of each tank. It saves historical tank level records according to time intervals, level changes, and volume changes. With the recorded data, a diagram can be displayed showing the historical tank level records. High and low level prompts are included in the display. Maximum cable length from Tank Guardian unit to PC Interface – 3900 ft. (use model# 3127-xxx).

TANK GUARDIAN

Features

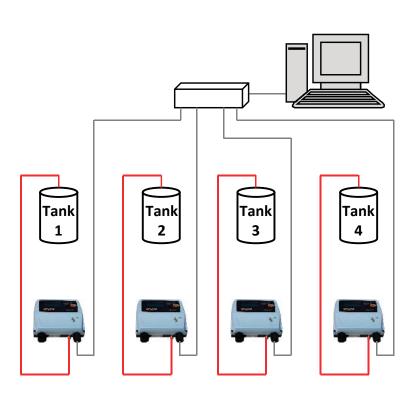
- Fluid level or volume displays on screen
- · Displays in gallons or liters
- May be used as a stand alone monitoring system or with any of Balcrank's FIC systems.
- Tank Data displays on screen using the optional PC Interface and Software.

AVAILABLE MODELS

4520-010	Tank Guardian
4520-011	PC Interface & software 4 Tanks
4520-012	PC Interface & software 8 Tanks

SPECIFICATIONS

Function	Monitors the fluid level of tanks by detecting the static pressure generated by the fluid height.
Requirements & Limitations	 One Tank Guardian unit required per tank 13 ft. max. tank height 10,000 gal. max. tank capacity 160 ft. max. distance from Tank Guardian to tank Requires AC power cord (not included)
Power	120 VAC, 60/50 Hz, 50 Watts
Service Bulletin	SB3094







Used Fluid Equipment



Used Fluid Equipment | Roughneck II™





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.

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 G (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"
Fluid Outlet Nozzle	1" OD
Estimated Evacuation Time	3 - 4 min.
Wetted Materials	Zinc Plated Steel, Steel, Viton®, HDPE, and PVC

Service Bulletin	SB4027
Accessories	89

Used Fluid Equipment | Premium Duty





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.

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

Service Bulletin	SB4022
Accessories	89







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 howl
- 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 G (60.5 L)
Telescoping Range	0-27 in. (0-69 m)
Air Inlet Size (Quick-connect)	1/4"
Fluid Outlet	3/4" NPT
Wetted Materials	Zinc Plated Steel, Steel, Viton®, HDPE, and PVC

Service Bulletin	SB4020
Accessories pg.	139

Used Fluid Equipment | Truck Drain



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.



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

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 G (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	SB4051
Accessories pg.	139





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 (sold separately).

AVAILABLE MODELS

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"	

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



SPECIFICATIONS

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

Service Bulletin	SB4018
Accessories pg.	89

Used Fluid Equipment | Oil Lift Drain

OIL LIFT DRAIN



Model	Description
4110-006	Five gal Lift Oil Drain
4111-001	Replacement funnel and tube assembly for 4110-006

Features:

- Set Screw to hold adjustable funnel in place
 • Extends up to 64"

- Three way filling
 Includes air vent and filler plug
- Whip hose and metal spout standard

OIL LIFT DRAIN ACCESSORIES



Model	Description	
4140-006	Transmission Drain Pan	Features: • Durable impact and heat resistant plastic • Used with any lift drain with a 7" or larger funnel Specifications: • W 23.5" x L 21.5" x H 5"
831886	Replacement Drain Bowl	Features: • Black high density polyethylene construction • Splashguard design with Straine • 19 1/4" diameter
4310-006	Dolly Base for 4110-006 Oil Lift Drain	



Used Fluid Equipment | Evacuator



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 G (64.35 I)	
Max. draining capacity	12 G (45.4 I)	
Air pressure for vacuum	100 psi (7 bar) 2-2.5 minutes	
Depressurization time		
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		

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	Aluminum CF15 Diaphragm Pump
8134-005	5' x 3/8" LP Connectivity Hose Assembly
3260-035	F/R Auto Drain 3/8" NPT (F)
8249-005	5' x 1/2" MP Connectivity Hose Assembly
8145-005	5' x 1/2" Suction Rated LP Hose Assembly
4140-016	Dry Break Coupler 3/4" NPT
806463	3/4" MPT x 1/2" FTP Class 3000 Bushing
833097	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 5' x 3/8" LP Connectivity Hose Assembly F/R Auto Drain 3/8" NPT(F) 5' x 1" MP Connectivity Hose Assembly	
8134-005		
3260-035		
8281-005		
8181-005	5' x 1" Suction Rated LP Hose Assembly	
833097	Mounting Bracket for AODD Pumps	

 This unit requires the use of a dry-break or cam-lock kit (sold separately).

EVACUATION PACKAGES-USED OIL



1121-001

Evacuation system for gear and engine oil 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'X3/8" 8261-005-Fluid Hose 5'X3/4" (2) 3230-006-Fluid Ball Valve

TANK LEVEL SENSOR, AUTO-SHUT-OFF CONTROL



4520-001	Auto-shut Off Control	
	Overfill Pump Control	\checkmark
	Auto-shutoff	✓
	Non-electric	✓
	Sensing Tube	✓
	Pump Controller	✓
4520-002	- Auto-shut Off Control alarm	includes





Accessories

145	Airline & Fluid Line Accessories
145	Bung Adapters
146	Couplers & Nipples
147	Couplers & Nipples
148	Dolly Base
148	Drum Cart
149	Drum Cover
150	External Pressure Relief
150	Extensions-for DR Meters
151	Extensions
152	Filter Regulators Lubricators
	Fittings & Swivels
154	Adapters -
154	Bushings -
154	Couplers - Standard -
155	Hex Nipples -
155	Square-Headed Plugs -
155	Street Elbows -
155	Swivels -
157	Follower Plates
157	Meters for Control Handles
158	Mounting Brackets
159	Nozzles
160	Pump Lift
160	Screen & Strainers
160	Shrouds
161	Stops
161	Suction Tubes
162	Tank Accessories
162	Valves

Accessories | 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	Water Bibb Thumb valve, Rubber spout	1/4" NPT(F) 300 psi (21 bar)

Coiled Air Hose for Air/Water 180 psi (12.4 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



4411-017N 4411-009N



4411-018N

4411-007N	Steel: Lion™ HP 5:1 W/ Pressure Relief
4411-009N	Alum. Panther® HP, Tiger W/ P. Relief
4411-009QX	Alum. Panther® HP, Tiger W/ P. Relief- 10 pk
4411-012	For use with 1" suction tube
4411-017N	Nickel Plated: Tiger W/ Pressure Relief
4411-018N	Bushing, Double Tap W/ Pressure Relief
4411-021	LYNX: 1:1, 2:1
4411-022	LYNX: 3:1, 5:1



Accessories | Couplers & Nipples

COUPLERS & NIPPLES

			ARO S	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
			LINCOL	N 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
			INDUSTRI	AL SERIES			
CC	OUPLER - 3/8" BC	DDY SIZE		!	NIPPLE - 3/8" BO	DY 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
CC	OUPLER - 1/2" BO	DDY SIZE			NIPPLE - 1/2" BO	DY SIZE	
-0-0A	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
		AUTO	OMOTIVE ST	ANDARD SERIES			
	COUPLER	2			NIPPLE		
	THREAD SIZE	NPT(F)	NPT(M)		THREAD SIZE	NPT(F)	NPT(M)

3270-002

3270-148

3270-149

3270-001

3/8"

CAM LOCKS

COUPLERS-CAM LOCKS

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

CA	MLOCK COUF	PLER		CAMLOCK 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
C	CAMLOCK NIPE	PLE		Incl	CAM LOCK KIT ludes: Fluid Ball Valve, ick nipple, coupler, and cap
3/4"	N/A	4140-045	The state of the s	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	COUPLER-Dry Break 3,000 psi (206.8 bar)			NIPPLE-Dry Break 3,000 psi (206.8 bar)			
	THREAD SIZE	NPT(F)	NPT(M)	-0.7	THREAD SIZE	NPT(F)	NPT(M)
	3/4"	4140-016	N/A		3/4"	4140-023	40-023 N/A
	1"	4140-050	N/A		1"	4140-051	N/A

COUPLER-Dry Break Kit 3,000 psi (206.8 bar)

Includes: Dry E	Break nipple and cou	pler			
3/4"	4140-048		1"	4140-049	
1"	N/A	4140-018	1"	4140-021	



DOLLY BASES







4310-005	23-35 lb/5 gal
4310-001	120 lb/16 gal
4310-003	120 lb/16 gal wide track
4310-004	400 lb/55 gal heavy duty

DRUM CARTS

4320-009	120 lb/16 gal
4320-006	200 lb/ 30 gal heavy duty
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 | External Pressure Relief & Extensions

EXTERNAL PRESSURE RELIEF



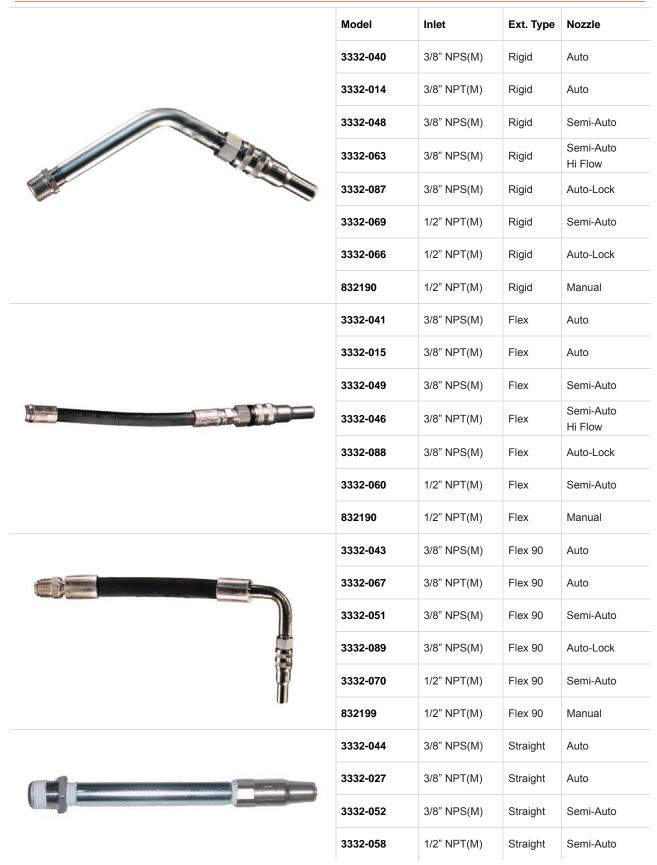
3120-085	Pressure Relief Kit, 1/2" NPT(M) 850 psi
3120-086	Pressure Relief Kit, 3/4" NPT(M) 850 psi
3120-087	Pressure Relief Kit, 3/4" NPT(M) 1,400 psi

EXTENSIONS & NOZZLES **DR** (For use with the DR handles ONLY)

	Model	Inlet	Ext. Type	Nozzle
	3332-093	3/8" NPT(M)	Flex with Metal Memory	1/4 Turn Manual Tip OD = 0.705" Verify ID of ATF fill port for compatibility.
NEW memory-flex extension; bend the extension to the desired angle and it retains its shape.	3332-095	3/8" NPT(M)	Flex	Auto Tip OD = 0.605" Verify ID of ATF fill port for compatibility.
	3332-092	3/8" NPT(M)	Flex 90	1/4 Turn Manual Tip OD= 0.705" Verify ID of ATF fill port for compatibility.
	3332-094	3/8" NPS(M)	Flex 90	Auto Tip OD = 0.605" Verify ID of ATF fill port for compatibility.
	3332-091	3/8" NPS(M)	Rigid 60	1/4 Turn Manual Tip OD= 0.705" Verify ID of ATF fill port for compatibility.

Accessories | Conventional Extensions

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





Accessories | Filter Regulators

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 (10.3 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"

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)

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 (0-10.3 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 (0-10.3 bar) pressure rating
- Proportional oil delivery
- Precision needle valve
- Transparent sight dome for 360° visibility High strength polycarbonate bowl

FILTER REGULATORS LUBRICATORS (FRL)

1-PIECE 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. 1/4" NPT(F)



AIR LINE FILTER

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



3260-038	1/4" NPT(F) Mini
3260-039	1/4" NPT(F)
3260-040	3/8" NPT(F)
3260-041	1/2" NPT(F)
3260-042	1/2" NPT(F) 1/2" NPT(F)

2-PIECE PIGGY BACK FRL UNITS



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

AIR REGULATORS

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



3260-028	1/4" NPT(F) Mini
3260-029	1/4" NPT(F)
3260-030	3/8" NPT(F)
3260-031	1/2" NPT(F)
3260-032	3/4" NPT(F)

3-PIECE 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).



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

AIR LINE 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).



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



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 (206.8 bar)
3270-082	3/8" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-021	1/2" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-081	1/2" x 3/4"	Steel 3,000 psi (206.8 bar)

BUSHINGS - STANDARD & REDUCING



Model	NPT (M x F)	Specifications
3270-076	1/4" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-071	3/8" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-077	3/8" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-016	1/2" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-052	1/2" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-075	1/2" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-070	1/2" x 3/4"	Steel 3,000 psi (206.8 bar)
3270-072	3/4" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-074	3/4" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-053	3/4" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-073	1" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-054	1" x 3/4"	Steel 3,000 psi (206.8 bar)

COUPLERS - STANDARD



Model	NPT (F x F)	Specifications
3270-084	1/4" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-085	3/8" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-086	1/2" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-087	3/4" x 3/4"	Steel 3,000 psi (206.8 bar)
3270-088	1" x 1"	Steel 3,000 psi (206.8 bar)

CESSORIES

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 (206.8 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 (206.8 bar)
3270-090	3/8" x 1/4"	Steel 3,000 psi (206.8 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 (206.8 bar)
3270-091	1/2" x 3/8"	Steel 3,000 psi (206.8 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 (206.8 bar)
3270-092	3/4" x 1/2"	Steel 3,000 psi (206.8 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 (206.8 bar)
3270-045	1" x 1"	Steel 3,000 psi (206.8 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 (206.8 bar)
3270-152	3/8"	Steel 3,000 psi (206.8 bar)
3270-153	1/2"	Steel 3,000 psi (206.8 bar)
3270-154	3/4"	Steel 3,000 psi (206.8 bar)
3270-155	1"	Steel 3,000 psi (206.8 bar)
3270-156	2"	Steel 3,000 psi (206.8 bar)

STREET ELBOW



Model	NPT (F x M)	Specifications		
3270-157	1/4" x 1/4"	Steel 3,000 psi (206.8 bar)		
3270-083	3/8" x 3/8"	Steel 3,000 psi (206.8 bar)		
3270-158	1/2" x 1/2"	Steel 3,000 psi (206.8 bar)		
3270-159	3/4" x 3/4"	Steel 3,000 psi (206.8 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 (206.8 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 (206.8 bar)
3270-050	3/8" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-046	3/8" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-028	1/2" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-027	1/2" x 1/2"	Steel 3,000 psi (206.8 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 (206.8 bar)
3270-100	3/4" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-101	3/4" x 1"	Steel 3,000 psi (206.8 bar)
3270-048	1" x 3/4"	Steel 2,000 psi (137.8 bar)
3270-102	1" x 1"	Steel 3,000 psi (206.8 bar)
Model	NPT(F) x NPS(F)	Specifications
3270-103	1/4" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-106	3/8" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-109	3/8" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-104	1/2" x 1/4"	Steel 3,000 psi (206.8 bar)
3270-107	1/2" x 3/8"	Steel 3,000 psi (206.8 bar)
3270-110	1/2" x 1/2"	Steel 3,000 psi (206.8 bar)
3270-105	3/4" x 3/4"	Steel 3,000 psi (206.8 bar)
3270-108	1" x 1"	Steel 3,000 psi (206.8 bar)

SWIVEL UNIONS 90°



Model	NPT(F) x NPS(F)	Specifications			
3270-111	1/4" x 1/4"	Steel 3,000 psi (206.8 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 (206.8 bar)			
3270-113	3/8" x 1/4"	Steel 3,000 psi (206.8 bar)			
3270-055	1/2" x 1/2"	Steel 3,000 psi (206.8 bar)			
3270-114	1/2" x 3/8"	Steel 3,000 psi (206.8 bar)			
3270-058	3/4" x 3/4"	Steel 3,000 psi (206.8 bar)			
3270-060	1" x 1"	Steel 3,000 psi (206.8 bar)			
Model	NPT(M) x NPS(F)	Specifications			
3270-115	1/4" x 1/4"	Steel 3,000 psi (206.8 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 (206.8 bar)			
3270-117	3/8" x 1/4"	Steel 3,000 psi (206.8 bar)			
Model	NPS(F) x NPS(F)	Specifications			
Model 3270-051	NPS(F) x NPS(F) 1/2" x 1/2"	Specifications Steel 3,500 psi (241.13 bar)			
	,, ,,	•			
3270-051	1/2" x 1/2"	Steel 3,500 psi (241.13 bar)			

Accessories | Fittings & Swivels-In-Lne Meters

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







4440-009

	grand in grand and and grand and property
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



3120-067

Model	del 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	
3120-066	1/2" NPT(F)	Gallons	Oil, ATF	
3120-067	1/2" NPT(F)	Liters, Gallons, Quarts, and Pints	Oil, ATF	

Accessories | Mounting Equipment

MOUNTING CHANNELS

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

MOUNTING BRACKET KITS

2230-024	Quick Mounting Plate 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
2230-013	I-Beam Mounting Clamps For use with single EVO, Premium, and Classic. Attaches reel directly to structural beams with 4-½" to 6-½" 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.

MOUNTING PLATES



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.



2600-007 Ceiling Plate

2600-006

Basement ceiling plate with two hose outlets.

WALL MOUNT BRACKET



4411-001 Bracket for Lion™ HP

4411-008 Bracket for LYNX, Panther® HP, and Tiger

NOZZLES FOR DISPENSE

	3332-085	3/8" NPT(F)	5.0 g/m	Auto-Lock
NOT for use with DR Meters	3332-086	3/8" NPT(F)	5.0 g/m	Auto
Exclusively for use with DR Meters	3332-097	3/8" NPT(F)	5.0 g/m	Auto Tip OD = 0.605" Verify ID of ATF fill port for compatibility.
	3332-090	3/8" NPT(F)	5.0 g/m	Semi-Auto
Exclusively for use with DR Meters	3332-096	3/8" NPT(F)	15.5 g/m	1/4 Turn Tip OD = 0.705" Verify ID of ATF fill port for compatibility.
	3332-039	3/8" NPT(F)	15.5 g/m	High-Flo, Semi-Auto



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.

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

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 after the pump - 1,000 psi (68.95 bar) - all strainers have 60 mesh



3120-051	1/2" NPT(F)	Pressure	1,000 psi (68.95 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 (68.95 bar) - all strainers have 60 mesh



3120-115 1" NPT(F)

3332-005

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

SHROUDS





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

831969	Protective elastomer guards against shock damage of meter body and dial face. Fits Pro-Series Series handles			
831969BL Pro-Series Series shrouds, Set of 4 Blue				
831969GR	Pro-Series Series shrouds, Set of 4 Green			
831969RD	Pro-Series Series shrouds, Set of 4 Red			
831969YL	Pro-Series Series shrouds, Set of 4 Yellow			
831992 Protective elastomer guards against shock damage of metabody and dial face. Fits Pro-Series handles 831992BL Pro-Series shrouds, Set of 4 Blue 831992GR Pro-Series shrouds, Set of 4 Green				
		831992RD	Pro-Series shrouds, Set of 4 Red	
		831992YL	Pro-Series shrouds, Set of 4 Yellow	

STOPS







Console Stop

2230-015

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

SUCTION TUBES



4412-006	20 1/2" x 1" NPT(M) for 16 gal drum
4412-007	26 1/2" x 1" NPT(M) for SS 55 g drum
4412-008	26 1/2" x 1" NPT(M) for 55 gal drum

SUCTION TUBES - 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 - 3/4" NPT(F)/1" NPT(M) adapter

TANK MOUNTING KITS

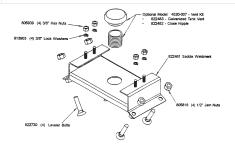


822483

Tank Vent Cap 2" NPT







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.

Order separate vent kit when attaching tank saddle at a tank vent location.

4520-006	Tank Saddle Kit
4520-007	Tank Vent Kit



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 (13.8 bar)	Body: Brass Seals: PTFE (Teflon®)
3230-004	1/2" NPT(F)	Air Ball Valve-LP 200 psi (13.8 bar)	Body: Brass Seals: PTFE (Teflon®)
3230-006	3/8" NPT(F)	Fluid Ball Valve-MP 2,000 psi (137.9 bar)	Body: Steel
3230-002	1/2" NPT(F)	Fluid Ball Valve-MP 2,000 psi (137.9 bar)	Body: Steel
3230-007	3/4" NPT(F)	Fluid Ball Valve-MP 2,000 psi (137.9 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 (137.9 bar)	Body: Steel

PUMP RUNAWAY CONTROL



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

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		

FOUR-WAY REVERSING VALVES used to simplify transferring fluid



1 7			
		Pressure	200 psi (68.95 bar)
3230-014	1" NPT(F)	Material	Anodized Alumium, Viton, and Stainless Steel

Brookins



HAND PUMPS For use in piping systems to control pressure



Model Description Features & Specifications	
For noncorrosive lubricants, so agricultural, and industrial che lncludes:	



Model	Description	Features & Specifications
1300-019	Piston Hand Pump	For diesel, engine oils, hydraulic oils, gear oils, antifreeze, degreasers, and windshield washer fluid Includes:



Model	Description	Features & Specifications
1300-021	Piston Hand Pump	5 gal/16 lb. drum size hand pump machine oils, gear oils, and Antifreeze (Glycol) Includes:



Model	Description	Features & Specifications		
1300-022	High Flow Rotary Pump	For noncorrosive lubricants, solvents, agricultural, industrial chemicals, diesel, engine oils, hydraulic oils, gear oils, antifreeze, degreasers, and windshield washer fluid Includes: • Suction tube • Bung adapter		
		Specifications: • 1 gal per 9 revolutions		
		Materials: • Cast iron, steel, Buna-N®		

GREASE GUNS



GREASE GUNS



Model	Description	Features & Specifications
5200-013	Mini Grease Gun	Features: • Short stroke grip action for easy use • Heavy duty professional grade construction • Three way filling • Includes air vent and filler plug • 9" Whip hose, straight spout standard, and metal hose extension



Model	Description	Features & Specifications
5200-011	Battery Operated Grease Gun	Includes: • Carrying case with shoulder strap • 42" Whip hose with coupler
8390-004	42" Hose Whip for 5200-011	Bend restrictors on hose 1 - 18 volt batteries 1-hour Quick Charger Specifications: Pump has the capability of developing 9,500 psi fluid pressure



Model	Description	Features & Specifications
1300-026	Suction Gun	Used for all-purpose draining and filling Includes: • 11" flexible hose included Specifications: • Heavy-duty construction • Needs no priming



FILLERS			
	Model 6110-017	Description Battery Filler	Features: • 2 ¼ qt. capacity • Bronze plastic finish
	6111-002	Replacement Spout for Battery Filler	Features: • Black plastic
	6110-010	Radiator Filler	Features: • 12 qt. capacity • Black plastic
DOTTI FO	6330-005	Drain Pan	Features: • 3.25 gal capacity • 16" Dia x 4" deep • Galvanized metal
BOTTLES	6420-008	Oil Bottle Kit	Features: 1 qt. capacity per bottle 8 bottles with spouts and dust caps Metal basket
	6420-009	Metal Basket	Features: • Holds 8-1 qt. bottles
	6420-006	Plastic Bottle	Features:





420-006	Plastic Bottle

6420-007 Spout and Dust Cap

• 1 qt. capacity

 1 spout and dust cap for 1 qt. bottles

ELECTRIC CORD REELS

Model	Description	
2510-010	Light Cord Reel	Features: 50' cord length, 18 gauge Powder coated steel housing Protected on/off switch Rough service lamp Adjustable spring steel hook Adjustable cord stop Resettable circuit breaker
832557	Replacement light kit	For 2510-010 Light Cord Reel
2510-011	Electric Cord Reel	Features: 30' cord length, 16 gauge Powder coated steel housing Adjustable spring steel hook Adjustable cord stop Resettable circuit breaker 110-125V Max amp rating -10 amps 3 outlets with GFIC protection Rated for inside use only

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