

Lubrication equipment, hand-held lubrication tools and accessories

Product catalog

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Innovative Thinking Producing Significant Results

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SKF – the knowledge engineering company

From one simple but inspired solution to a misalignment problem in a textile mill in Sweden, and fifteen employees in 1907, SKF has grown to become a global industrial knowledge leader.





Over the years we have built on our expertise in bearings, extending it to seals, mechatronics, services and lubrication systems. Our knowledge network includes 46 000 employees, 15 000 distributor partners, offices in more than 130 countries, and a growing number of SKF Solution Factories around the world.

Research and development

We have hands-on experience in over forty industries, based on our employees' knowledge of real life conditions. In addition our world-leading experts and university partners who pioneer advanced theoretical research and development in areas including tribology, condition monitoring, asset management and bearing life theory. Our ongoing commitment to research and development helps us keep our customers at the forefront of their industries.

Meeting the toughest challenges

Our network of knowledge and experience along with our understanding of how our core technologies can be combined helps us create innovative solutions that meet the toughest of challenges. We work closely with our customers throughout the asset life cycle, helping them to profitably and responsibly grow their businesses.

Working for a sustainable future

Since 2005, SKF has worked to reduce the negative environmental impact from our own operations and those of our suppliers. Our continuing technology development introduced the SKF BeyondZero portfolio of products and services which improve efficiency and reduce energy losses, as well as enable new technologies harnessing wind, solar and ocean power. This combined approach helps reduce the environmental impact both in our own operations and in our customers'.

SKF Solution Factories make SKF knowledge and manufacturing expertise available locally, to provide unique solutions and services to our customers.



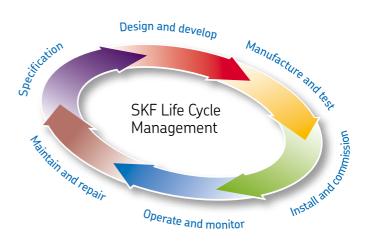
Working with SKF IT and logistics systems and application experts, SKF Authorized Distributors deliver a valuable mix of product and application knowledge to customers worldwide.





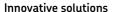
Our knowledge – your success

SKF Life Cycle Management is how we combine our technology platforms and advanced services, and apply them at each stage of the asset life cycle, to help our customers to be more successful, sustainable and profitable.



Working closely with you

Our objective is to help our customers improve productivity, minimize maintenance, achieve higher energy and resource efficiency, and optimize designs for long service life and reliability.



Whether the application is linear or rotary or a combination of the two, SKF engineers can work with you at each stage of the asset life cycle to improve machine performance by looking at the entire application. This approach doesn't just focus on individual components like bearings or seals. It looks at the whole application to see how each component interacts with the next.

Design optimization and verification

SKF can work with you to optimize current or new designs with proprietary 3-D modeling software that can also be used as a virtual test rig to confirm the integrity of the design.



Bearings

SKF is the world leader in the design, development and manufacture of high performance rolling bearings, plain bearings, bearing units and housings.



Machinery maintenance

Condition monitoring technologies and maintenance services from SKF can help minimize unplanned downtime, improve operational efficiency and reduce maintenance costs.



Sealing solutions

SKF offers standard seals and custom engineered sealing solutions to increase uptime, improve machine reliability, reduce friction and power losses, and extend lubricant life.



Mechatronics

SKF fly-by-wire systems for aircraft and drive-bywire systems for off-road, agricultural and forklift applications replace heavy, grease or oil consuming mechanical and hydraulic systems.



Lubrication solutions

From specialized lubricants to state-of-the-art lubrication systems and lubrication management services, lubrication solutions from SKF can help to reduce lubrication related downtime and lubricant consumption.



Actuation and motion control

With a wide assortment of products – from actuators and ball screws to profile rail guides – SKF can work with you to solve your most pressing linear system challenges.



People, capabilities and systems to save money and increase productivity









Industry leader

Continually satisfying our customers with the world's best lubrication equipment and pumping systems has made Lincoln the largest and most successful company in our field. For more than a century, companies have relied on our technical and quality leadership; our world-class manufacturing and customer service, and our vast network of distributors and support facilities.

Providing solutions

Industrial customers in large processing plants, automotive manufacturing, pulp and paper mills, food and beverage and other manufacturing facilities can depend on solutions from Lincoln. For the toughest mobile applications, on the road or in the field, Lincoln protects heavy equipment used in mining, construction, agriculture and over-the-road trucking. In addition, Lincoln offers the best lubrication equipment to meet the needs of automotive service professionals.

Worldwide support

With five technical support centers on three continents, and a network of distributors supported by regional sales and service offices, our customers can always draw on our worldwide resources.

Other Lincoln sites

Lincoln has developed new internet sites to better serve customers by providing information customized for their needs. Visit us at lincolnlube.com, mityvac.com and mityvacFST.com.



A complete line of lubrication solutions and industrial pumping products

At every construction site, automobile repair shop and industrial plant, maintenance and automotive service professionals need high-quality lubrication equipment and pumping products

Lincoln offers everything you need for lubrication. Our general-purpose and heavy-duty pumps, hose reels, meters and controls, used fluid systems and hand-held lubrication products are the best in the industry.

Hand-held greasing tools and accessories

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Model 816



PowerLuber 12 V lithium ion battery-operated grease gun

Durable tool delivers solid performance

The 12-volt, Lithium-ion PowerLuber was developed to simplify and speed up the lubrication process making it easier for operators to properly maintain equipment. Featuring an updated powertrain, handle design and enhanced features, this grease gun is suitable for agricultural, automotive, construction, general maintenance and industrial applications. The 1260 series delivers grease at up to 8,000 psi (551 bar).

Designed to minimize the burden of manual lubrication, the 12-volt, Lithium-ion PowerLuber is a problem solver that provides operator convenience. This high quality tool can open stuck fittings that otherwise would require replacement if using a manual grease gun.

Work-ready design

The PowerLuber's three-point base keeps the tool upright and stable without being bulky. This feature allows access to tight areas and reduces operator fatigue when lubricating. Also, the tool has a convenient, built-in light emitting diode (LED) to illuminate the work area.

Features

- Work light built-in LED illuminates the work area
- Three-point base base keeps the grease gun upright for easy handling and helps to keep the tool clean of debris
- Battery charge indicator displays battery charge
- Vent valve the vent valve purges trapped air to help assure easy prime
- Follower design Dual-lip follower design enables bulk or cartridge grease delivery and eliminates grease bypass
- Integrated hose holder and tube guide the holder's unique design allows for secure hose storage and easy threading of the grease barrel
- Flex hose the 30 in. (76 cm) highpressure hose with anti-kink spring quards on each end
- Lithium-ion battery Slide-on, 12-volt, lithium-ion battery reduces weight, yet outperforms NiCd batteries twice the size
- Mobile charger Optional, one-hour mobile charger for quick charging in the field in vehicles with 12V or 24V DC outlets







Model 1262

Packed in a convenient heavy-duty carrying case molded from impact- and stain-resistant plastic. Model 1262 comes complete with the 12 V Li-ion PowerLuber (model 1260) and battery (model 1261) and AC charger (model 1870).

Model 1264

Includes the same content as model 1262 plus a second 12 V Li Ion rechargeable battery (model 1261).

Model 1260-NB

12V Li-ion single-speed grease gun, tool only.

Accessories

Battery - model 1261

12 V Li Ion slide-on battery.

Charger - model 1870

AC charger for 12 to $20\,\mathrm{V}$ Li Ion batteries (110 V).

Model 1875A

Mobile charger for use in vehicles using 12 or 24 V DC outlets.











Model 1890 Grease gun and battery only



PowerLuber 20 V lithium ion battery-operated grease gun

Powerful, versatile technology from the lubrication experts

· High pressure and volume

The PowerLuber's redesigned, high-torque powerhead delivers grease at up to 10 000 psi (689,5 bar) in both high-and low-output settings. The new design reduces battery load and maximizes grease output per charge.

· Accuracy and precision

The tool's liquid crystal display (LCD) accurately indicates standard readings such as battery level and grease flow (grams or ounces). In addition, the LCD's flow meter detects the loss of prime, eliminating false readings to help ensure the equipment being serviced is properly lubricated.

· Work-ready design

The rugged PowerLuber's new threepoint base keeps the tool upright and stable for easy handling without being bulky to allow easy access to fittings in tight spaces. Also, the tool has a convenient, built-in LED to illuminate the work area.

Features

- Multi-function LCD display shows grease output and battery charge, and alerts the operator of blocked fittings and loss of prime
- Work light built-in LED illuminates the work area
- Three-point base base keeps the grease gun upright for easy handling and helps to keep the tool clean
- Two-speed digital grease output selector – switch from low-volume to high-volume dispensing with the touch of a button
- Vent valve and filler nipple the vent valve purges trapped air to help assure easy prime, and the filler nipple facilitates a quick, clean refill for those who prefer to bulk fill their barrel
- Integrated hose holder and tube guide the holder's unique design allows for secure hose storage, and the tube guide provides easy threading of the grease barrel
- Flex hose the 48 in. (122 cm) flex hose comes with anti-kink spring guards on each end and is the ideal size for most lubrication tasks
- Lithium-ion battery lithium-ion technology is powerful and efficient, delivering an even flow of energy and eliminating the slowdown associated with NiCad, while offering three times the charge cycles





Model 1886

20 V Li-ion high-ratio dual-output grease gun comes packed in a convenient heavy-duty carrying case molded from impact- and stain-resistant plastic. Model 1886 comes complete with the 20 V Li-ion PowerLuber (model 1890), one battery (model 1871), AC charger (model 1870) and 48 in. (122 cm) high-pressure hose (model 1248HP).

Model 1888

Includes the same content as model 1886 plus a second 20 V Li-ion rechargeable battery (model 1871).

Accessories

Battery - model 1872

20 V, 4.0Ah Li-ion slide-on battery.

Battery - model 1871

20 V, 2.5Ah Li-ion slide-on battery.

Charger - model 1870

One hour high-output 110 V AC charger.

Model 1875A

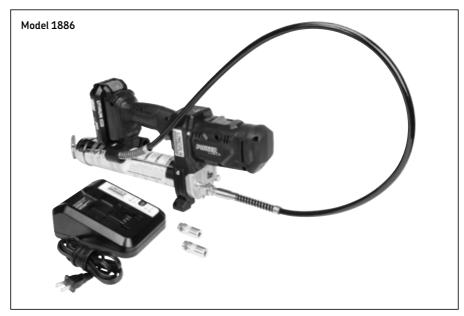
One hour charger for use in vehicles and heavy equipment using 12 or 24 V DC outlets.













PowerLuber 20 V lithium ion battery-operated grease gun

Powerful, versatile technology from the lubrication experts

· High pressure and volume

The PowerLuber's redesigned, hightorque powerhead delivers grease at up to 10 000 psi (689,5 bar) in both highand low-output settings. The new design reduces battery load and maximizes grease output per charge.

· Accuracy and precision

The tool's liquid crystal display (LCD) accurately indicates standard readings such as battery level and grease flow (grams or ounces). In addition, the LCD's flow meter detects the loss of prime, eliminating false readings to help ensure the equipment being serviced is properly lubricated.

· Work-ready design

The rugged PowerLuber's new threepoint base keeps the tool upright and stable for easy handling without being bulky to allow easy access to fittings in tight spaces. Also, the tool has a convenient, built-in LED to illuminate the work area.

Features

- Multi-function LCD display shows grease output and battery charge, and alerts the operator of blocked fittings and loss of prime
- Work light built-in LED illuminates the work area
- Three-point base base keeps the grease gun upright for easy handling and helps to keep the tool clean
- Two-speed digital grease output selector – switch from low-volume to high-volume dispensing with the touch of a button.
- Vent valve and filler nipple the vent valve purges trapped air to help assure easy prime, and the filler nipple facilitates a quick, clean refill for those who prefer to bulk fill their barrel
- Integrated hose holder and tube guide the holder's unique design allows for secure hose storage, and the tube guide provides easy threading of the grease barrel
- Flex hose the 36 in. (91 cm) flex hose comes with anti-kink spring guards on each end and is the ideal size for most lubrication tasks
- Lithium-ion battery lithium-ion technology is powerful and efficient, delivering an even flow of energy and eliminating the slowdown associated with NiCad, while offering three times the charge cycles





LINCOLN 10 SKF

Model 1882

Packed in a convenient heavy-duty carrying case molded from impact- and stain-resistant plastic. Model 1882 comes complete with the 20 V Li-ion PowerLuber (model 1880) and battery (model 1871) and AC charger (model 1870).

Model 1884

Includes the same content as model 1882 plus a second 20 V Li Ion rechargeable battery (model 1871).

Model 1880-NB

20V Li-ion 2-speed grease gun with multifunction LCD; tool only.

Accessories

Battery - model 1872

20 V, 4.0Ah Li-ion slide-on battery.

Battery - model 1871

20 V, 2.5Ah Li-ion slide-on battery.

Charger - model 1870

One hour high-output 110 V AC charger.

Model 1875A

One hour charger for use in vehicles and heavy equipment using 12 or 24 V DC outlets.













Hand-held greasing tools and accessories - PowerLuber battery-operated grease gun accessories

Model 1872



Model 1871

PowerLuber accessories

Batteries

Model 1872

20 V, 4.0Ah Li-ion rechargeable slide-on battery for all 20 V Li-ion PowerLubers.

Model 1871

20 V, 2.5Ah Li-ion rechargeable slide-on battery for all 20 V Li-ion PowerLubers.

Model 1861

18 V Li-ion rechargeable slide-on battery for 1860 series PowerLubers.

Model 1801

18 V NiCad rechargeable battery for 1840 series PowerLubers.

Model 1401

14.4 V NiCad rechargeable battery for 1440 series PowerLubers.

Model 1261

12 V Li Ion slide-on battery.

Model 1201

12 V NiCad rechargeable battery for 1240 series PowerLubers.

Note: NiCad and Li Ion batteries are not interchangeable.

Model 1861

Model 1401

Model 1870













Chargers

Model 1870

One hour high-output 110 V AC charger. For use with 12 and 20 V Li-ion PowerLuber batteries.

Model 1875A

One hour charger for use in vehicles and heavy equipment using 12 or 24 V DC outlets. For use with 12 and 20 V Li-ion PowerLuber batteries.

Model 1850

110 V one hour high-output Li-ion charger maximizes the life cycle of the battery. For use with 18 V Li Ion battery model 1861.

Model 1855A

One hour fast charger for use in vehicles and heavy equipment using 12 or 24 V DC outlets. For use with 18 V Li Ion battery model 1861.





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Model 1410

110 V "smart" charger recharges batteries in less than one hour and recognizes battery condition when not in use. For use with both Lincoln model 1401 (14.4 V NiCad) and model 1801 (18 V NiCad) battery packs.

Model 1815A

One hour charger for use in vehicles and heavy equipment using 12 or 24 V DC outlets. For use with both Lincoln model 1401 (14.4 V NiCad) and model 1801 (18 V NiCad) battery packs.

Model 1210

110 V one-hour fast charger for use with battery pack model 1201. 6 ft. (1,8 m) cord; UL/ULC listed.

Model 1215

One hour charger for use in vehicles and heavy equipment using 12 V DC outlets. For use with 12 V NiCad battery model 1201.

Model 1215A

One hour fast charger for use in vehicles and heavy equipment using 12 or 24 V DC outlets. For use with 12 V NiCad battery model 1201.

Model 1414

Shoulder strap for hands-free movement from job to job (14.4 and 18 V PowerLubers only).

PowerLock coupler

Model 5900

Lever-action coupler for quick attachment and release. Reverse jaw design holds the fitting securely to the seat for single-handed operation. Durable, all-steel construction with flexible rubber sleeve.











| Model | Desci | ription | Thread si z Inlet UNEF | ze Outlet NPT (m) | Maximum Working | pressure |
|--|----------------------------|-----------------------------|--------------------------------------|---------------------------------|---|---------------------------------|
| | in. | cm | in. | in. | psi | bar |
| 1218 1224 1230 1236 1248HP | 18 24 30 36 48 | 46 61 76 91 122 | 7/16 7/16 7/16 7/16 7/16 | 1/8 1/8 1/8 1/8 1/8 | 7 500 7 500 7 500 10 000 10 000 | 517 517 517 689 689 |







PowerLuber 120 V corded electric grease gun

Corded AC power

The first of its kind in the industry, the 120 V corded PowerLuber's motor provides the highest torque values in its class. Its variable speed trigger combines with a two-speed transmission for precise flow control. Ideal for filling grease reservoirs, the 120 V grease gun is an excellent alternative to pneumatic lube tools.

Features

- High torque 120 VAC motor
- Unmatched for power, longevity and performance
- Variable speed trigger combines with the 2-speed transmission for excellent flow
- Excellent for refilling grease reservoirs
- Excellent alternative to pneumatic
- Pressure relief valve to prevent motor overload
- Check-ball accessibility allows easy cleaning of contaminated or hardened grease
- Includes 30 in. (762 mm) hose (model 1230)







120 V PowerLuber technical data

Models

Voltage Transmission Lube capacity Grease flow indicator Output pressure

Output rate per minute1) Cartridges dispensed per charge¹⁾ Overload protection Bulk filler valve Quick vent - air purge valve

Hose type

Compact carrying case Hose, coupler, cord clip 6 ft. (1,8 m) power cord

AC2440/AC2400²⁾

2-speed transmission with variable speed trigger 16 oz. (454 cm³) bulk/14.5 oz. (411 cm³) cartridge Patented stroke counter 7 000 psi (483 bar)

3.6 (L) to 8.0 oz. (H) [102 (L) to 227 cm3 (H)] Pressure relief valve, thermal protector

30 in. (762 mm) high pressure with dual spring guards and model 5852 coupler Yes (model AC2440 only)

Yes Yes



¹⁾ At 1 000 psi (69 bar) back pressure 2) Does not include carrying case

PowerLuber fully automatic pneumatic grease gun

Model 1162

The variable speed trigger provides excellent grease flow control while the advanced pump design eliminates traditional priming issues

- Outstanding durability and dependability
- Fully automatic, continuous operation
- Variable-speed trigger
- Accessible check valve assembly
- Comfortable grip
- 30 in. (762 mm) high-pressure hose with coupler and attachment clip (model 1230)
- Includes a combination filler nipple and bleeder valve
- Superior flow performance obtained through advanced design
- Standard grease cartridge



Model 1162 PowerLuber technical data

 Pump ratio
 40:1 at 150 psi (10 bar)

 Maximum grease pressure
 6 000 psi (414 bar)

 Air pressure range
 40 to 150 psi (2.8 to 10.3 bar)

 Lube capacity
 16 oz. (454 cm^3) bulk/14.5 oz. (411 cm^3) cartridge

 Weight
 5.375 lbs. (2,4 kg)





Lincoln – the brand the pros demand for quality lubrication tools

For over a century the industry has recognized Lincoln as the leader in professional lubrication tools. Professional automotive, agricultural and industrial mechanics depend on Lincoln tools for their livelihood. Lincoln tools offer a lifetime of performance and are backed by the most comprehensive warranty in the industry.

Lincoln hand-held grease guns offer:

- Rugged cast pump head for strength and durability.
- Jam-proof toggle mechanism prevents binding.
- Performance-proven design.
- Locking follower rod with removable end cap.
- Extra-heavy follower spring insures positive priming and uninterrupted pumping action
- Accessible check valve allows easy cleaning without gun disassembly.
- Follower rod locks into follower to force prime.
- Precision fit and hardened plunger prevents lubricant bypass, resists scoring for longer life.



| Model 1013 | |
|------------|--|
| | |
| | |

| Grease gun comparison chart | | | |
|--|-------------------------------|--------------------------|------------------------------------|
| Includes Durable high-pressure grease gun Precision fit and hardened plunger Accessible check valve 5852 hydraulic coupler Rugged cast head | 1142 X X X X X | 1148 X X X X | 1013 X X X X X X |
| Locking follower rod Removable end cap Variable stroke/variable pressure Multi-port pickup for greasing in tight areas Air purge valve | X X | X X X X | X X X |
| Large piston and bore High output setting 360° rotating extension Quick adjustment handle Plated barrel, head and handle | | | X X X X |
| Bulk filler nipple Ergonomic hand grip | | | X X |



Heavy-duty lever-type grease guns

Model 1142

Designed for rough treatment on the job with a cast iron pump head, precision fit plunger and extra heavy follower spring.

Model 1147

Same as model 1142 with 18 in. (457 mm) whip hose and coupler.

Model 1148

Premium version of our popular model 1142. This pump head includes dual grease inlet ports that provide the user the option of high pressure or high volume delivery. The tool also includes a comfortable vinyl grip and vent valve for purging air.

Model 1151

Same as model 1142 but holds 21 oz. (595 cm^3) bulk.

Model G100 lever action

Features non-slip grip, steel block head. Uses standard 14 oz. (397 g) grease cartridge.

Model G103 3 oz. (85 g) lever action

The perfect tool for low-volume greasing applications. Compact and lightweight, it's ideal for do-it-yourself auto repair, lawn and garden, ATV, marine, motorcycles, trailers and more. Unlike other 3 oz. (85 g) models, the G103 incorporates the traditional leveraction design providing better handling and much higher output pressure.

Key features:

- Lever-action design produces 6 000 psi (414 bar), far exceeding mini pistol-grip models
- Cast aluminum head, powder-coated barrel, comfortable vinyl grip
- Uses 3 oz. (85 g) cartridge or can be hand packed or bulk filled
- Conveniently stores in tool box or tray
- Optional 12 and 18 in. (305 and 457 mm) flex hoses available separately
- Jam-proof handle mechanism
- Replaceable hydraulic grease coupler









Lever-type grease guns

| Model | Cap a Bulk | acity size | Cartri | dge | Extension | Coupler | Size 1) | |
|-------|----------------------|------------|--------|-------|-----------------------------|---------|--------------------------------|-----|
| _ | oz. | grams | OZ. | grams | - | _ | in. | mm |
| 1142 | 16 | 454 | 14.5 | 411 | 62028, 6 in. (152 mm) | 5852 | 21 ³ / ₄ | 552 |
| 1147 | 16 | 454 | 14.5 | 411 | 71518, 18 in. (457 mm) hose | 5852 | 21 ³ / ₄ | 552 |
| 1148* | 16 | 454 | 14.5 | 411 | 62028, 6 in. (152 mm) | 5852 | 21 ³ / ₄ | 552 |
| 1151 | 21 | 595 | 14.5 | 411 | 62028, 6 in. (152 mm) | 5852 | 24 ¹ / ₂ | 622 |
| G100 | 16 | 454 | 14 | 397 | 5 in. (127 mm) | G300 | 19 | 482 |
| G103 | 3.2 | 90 | 3 | 85 | 62028, 6 in. (152 mm) | G300 | 9 ¹ / ₂ | 240 |

Model G100



¹⁾ Includes rigid extension

^{*}A includes rigid extension Specifications: output 1 oz. (28 cm³) per 33 strokes using No. 1 grease at 70 °F (21 °C). Barrel diameter 2 ¼ in. (57 mm) *A WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov







Load pin in rear position for high-output delivery

With handle in rear shift position, grease is delivered at low pressure [maximum 4 000 psi (276 bar)] with strokes from ¹/₄ to 12 in. (6,35 to 305 mm). Output 1 oz. (28 cm³) per 18 full strokes.

Load pin in front position for high pressure delivery

With handle in front shift position, grease is delivered at high pressure [maximum 7 000 psi (483 bar)] with strokes from 1/4 to 9 in. (6,35 to 229 mm). Output 1 oz. (28 cm³) per 33 full strokes.

Premium series grease guns

Dual pressure – dual output

Model 1013 and 1145

- High-output setting delivers twice the grease per stroke
- High or low pressure for light- or heavyduty greasing action
- Full pressure on short strokes for heavy greasing in tight places; develops full pressure with just 1/4 in. (6,35 mm) stroke
- Extension swivels 360° for hard-to-reach fittings
- Plated barrel, head and handle
- Handy three-way loading: cartridge, filler pump or bulk
- Comfortable, ergonomic grip

Precision high pressure and volume

Model 1035 and 1037

- Exclusive toggle mechanism design uses compound leverage for high-pressure pumping with little effort
- Rust resistant plated gun barrel and handle, black enamel head
- Equipped with filler nipple for fast refill from Lincoln filler pump
- 21 oz. (595 cm³) bulk capacity for heavy-duty greasing applications
- High volume (model 1037) delivers 1 oz. (28 cm³) in just nine strokes

Dual pressure

| Model | Cap Bull | acity siz k | z e Cartri | dge | Extension | Size | | Maximu | m pressure |
|--------------|--------------------|-----------------|----------------------|-----------------|--|--|----|------------------------------------|----------------------------|
| | OZ. | cm ³ | oz. | cm ³ | - | in. | mm | psi | bar |
| 1013 1145 | 16 21 | 454 595 | 14.5 14.5 | | 6 in. (152 mm) model 62028 and model 5852 hydraulic coupler 6 in. (152 mm) model 62028 and model 5852 hydraulic coupler | 22 ¹ / ₂ 25 ¹ / ₄ | | 7 000/ 4 000 7 000/ 4 000 | 483/ 276 483/ 276 |

Specifications: Output at low pressure 1 oz. (28 cm^3) per 18 strokes; at high pressure 1 oz. (28 cm^3) per 33 strokes using No. 1 cup grease at 70 °F (21 °C). Barrel diameter 2 ½ in. (57 mm)

High pressure

| Model | Cap Bull | acity siz | e Cartri | dge | Extension | Size | | Maximu | m pressure |
|-------|--------------------|-----------------|-------------|-----------------|---|--------------------------------|-----|--------|------------|
| | oz. | cm ³ | OZ. | cm ³ | - | in. | mm | psi | bar |
| 1035 | 21 | 595 | 14.5 | 411 | 6 in. (152 mm) model 62028 and model 5845 coupler | 27 ¹ / ₄ | 692 | 7 000 | 483 |

Specifications: Lubricant output 1 oz. (28 cm³) per 25 strokes using No. 1 cup grease at 70 °F (21 °C). Barrel diameter 2 ¹/4 in. (57 mm)

Volume

| Model | Cap Bulk | acity siz | e Cartri | dge | Extension | Size | | Maximu | m pressure |
|-------|--------------------|-----------------|--------------------|-----------------|---|--------------------------------|-----|--------|------------|
| _ | OZ. | cm ³ | OZ. | cm ³ | - | in. | mm | psi | bar |
| 1037 | 21 | 595 | 14.5 | 411 | 6 in. (152 mm) model 62028 and model 5845 coupler | 27 ¹ / ₄ | 692 | 3 000 | 207 |

Specifications: Lubricant output 1 oz. (28 cm³) per 9 strokes using No. 1 cup grease at 70 °F (21 °C). Barrel diameter 2 1/4 in. (57 mm)



Heavy-duty pistol grip-type grease guns

Model 1132

Fast, one-hand operation with similar features and benefits of Lincoln lever-type grease guns. Includes 5 in. (127 mm) extension with coupler.

Model 1133

Same as model 1132 with 18 in. (457 mm) whip hose and coupler.

Model 1134

Extra-heavy-duty pistol grip grease gun. Cast head design. Jam proof handle return mechanism. Develops up to 7 500 psi (517 bar). Includes both 18 in. (457 mm) whip hose with coupler and 6 in. (152 mm) rigid tube. Variable stroke allows a high pressure option for high tolerance applications. Includes combination air bleeder/filler nipple to bulk fill and easily release trapped air.

Accessories

Model 91108 filler nipple

Enables hand guns to be loaded using filler pump method. Includes ball check; 1/8 in. NPT (m).









Pistol grip grease guns

| Model | Cap Bulk | acity size | Cartridge | | | | Coupler | Size | |
|----------------------|--------------------|-------------------|----------------------|-------------------|--|----------------------|--|-------------------|--|
| | OZ. | cm ³ | OZ. | cm ³ | - | _ | in. | mm | |
| 1133 1132 1134 | 16 16 16 | 454 454 454 | 14.5 14.5 14.5 | 411 411 411 | 71518 18 in. (457 mm) hose 6 in. (152 mm) straight pipe 18 in. (457 mm) flex hose, 6 in. (152 mm) straight pipe | 5852 5852 5852 | 15 ¹ / ₂ 15 ¹ / ₂ 15 ¹ / ₂ | 394 394 394 | |
| G112 G113 | 16 16 | 454 454 | 14.5 14.5 | 411 411 | 4 in. (102 mm) straight pipe 18 in. (457 mm) flex hose | G300 G300 | 19 19 | 482 482 | |





Grease gun mounting clamps and holders

Model 82770 heavy-duty grease gun mounting clamp

Can be mounted to almost any surface. Simple to fasten and disengage, the clamp secures grease guns up to 10 lb. (4.5 kg) and offers a latch as a secondary security option for mobile applications. The easy-to-mount clamp features an elongated, predrilled base designed for various applications and mounting configurations. Holds grease guns using a standard 14-ounce (400 g) barrel.

Model 82760 grease gun holder

Can be mounted to almost any surface. Holds grease guns and suction guns with 2 1/4 in. OD barrel. Holds guns until ready to use. Not for use with CLR tubes.

Model G160 grease gun holder

Holds grease and suction guns with 2 1/4 in. OD barrel. Mount to any surface. Not for use with CLR tubes.







20 **5KF**

Suction guns

Model 616 fluid extractor/dispenser

Simple-to-use, syringe-action tools feature a large, 1.5-liter fluid reservoir, twist-valve and dual-seal piston designed to transfer fluids quickly with no mess.

- Sturdy, polymer-based construction
- Cylinder marked with fluid levels
- Rubber grip for operator convenience
- Double-seal design prevents leaks at the piston
- Integrated stand to prevent rolling
- Twist-valve on hose end eliminates fluid leaks
- Clear, 16-inch hose enables operator to see fluid being transferred

Model 617 DEF fluid extractor/dispenser

Same as model 616 except comes with DEF compatible hose.

Model 615 suction gun

18 oz. (532 cm³) capacity with 12 in. (304,8 mm) flex hose. Perfect for draining and filling differentials, clutches, power steering reservoirs and transmissions. Needs no priming. Features heavy-duty steel barrel and non-slip knurling.

Model G150 suction gun

Holds up to 17 oz. (503 cm³) of fluid. Flexible nozzle.









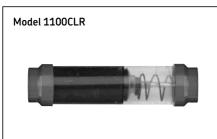
Suction guns

| Model | Capacity size Bulk | | Extension | Size ¹⁾ | |
|---------------|------------------------------|-----------------|--|--------------------|------------|
| _ | OZ. | cm ³ | _ | in. | mm |
| 616 617 | 50.7 50.7 | 1 500 1 500 | 16 in. (406 <i>mm</i>) 16 in. (406 <i>mm</i>) | | |
| 615* G150* | 18 17 | 532 503 | 12 in. (305 mm) 12 in. (305 mm) | 14 13 ½ | 356 343 |

1) Includes rigid extension
Specifications: output 1 oz. (28 cm³) per 33 strokes using No. 1 grease at 70 °F (21 °C). Barrel diameter 2 ¼ in. (57 mm)

*AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov





Clear grease guns and grease gun tubes

Lincoln's premium line of clear grease guns for 100% positive grease identification

Not all grease is created equally – different equipment, machines, bearing types and vehicles require different types of grease. Proper identification of the grease once installed in a grease gun can be challenging. Lincoln's clear tube allows for quick grease identification eliminating the risk of mixing incompatible or unspecified greases.

Built to last – the high strength clear tube and aircraft aluminum adapters create one of the most durable tube assemblies in the industry. Traditional steel tubes are subject to damage in the workplace through drops and hits from other tools. The Lincoln clear tube design is impervious to this type of damage. Its resilient shell eliminates waste from grease bypass.

Military proven – Lincoln's clear tube design was developed successfully for military maintenance support. The clear tube is being used successfully in these harsh environments, and it provides the 100% grease identification they demand.

The clear design enables:

- Positive grease type identification (bulk or cartridge)
- Visual confirmation of quantity of grease remaining in tube (bulk)
- Visual confirmation of air pockets eliminating the loss of prime (bulk)
- Visual confirmation of grease separation or contamination (bulk)
- Perfect concentricity and resilience eliminates bypass (bulk or cartridge)
- Visual recognition of grease brand promotes quality of shop (cartridge)

Clear grease gun models

| Model | Description |
|--------------------------------|---|
| 1100CLR | Tube only, clear with blue ends – for easy conversion from standard |
| 1100MLBK | Tube only, clear with black ends – for easy conversion from standard Lincoln steel tubes |
| 1107CLR | Tube only, clear – for conversion of many competitive models |
| 1134CLR 1142CLR 1148CLR* | Gun, heavy-duty pistol with clear tube Gun, lever with clear tube Gun, lever deluxe with clear tube |

Clear tube kits (models 1100CLR and 1107CLR) are available to allow the conversion of grease guns currently in use

 ${\bf ^{*}\Delta}\,{\bf WARNING}\,{\bf California}\,{\bf Proposition}\,{\bf 65}{:}\,{\bf Cancer}\,{\bf and}\,{\bf reproductive}\,{\bf harm.}\,{\bf www.P65Warnings.ca.gov}$

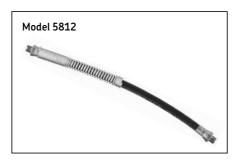


22 **5KF**

Hoses for grease guns and air-operated control valves

Premium extensions for grease guns and air-operated control valves

| Model | Description | | Thread size NPT (m) | Maximum pr Working | essure |
|----------------------|----------------|-------------------|---|------------------------------|-------------------|
| _ | in. | mm | in. | psi | bar |
| 5812 5818 5861 | 12 18 36 | 305 457 914 | 1/ ₈ 1/ ₈ 1/ ₈ | 4 500 4 500 4 500 | 310 310 310 |



Strategically placed coil spring provides nonslip, push-pull grip and prevents accidental kinking which could cause hose ruptures.

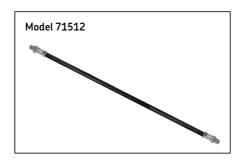
Hose extensions for manually operated grease guns, packaged

| Model | Descri | iption | Thread si inlet NPT (m) | i ze outlet NPT (m) | Maximun Working | n pressure | Burst pre | ssure |
|--------|--------|--------|-------------------------------|----------------------------------|---------------------------|------------|-----------|-------|
| _ | in. | mm | in. | in. | psi | bar | psi | bar |
| 71512 | 12 | 305 | 1/ ₈ | 1/ ₈ | 3 000 | 207 | 12 000 | 827 |
| 71518 | 18 | 457 | 1/ ₈ | 1/ ₈ | 3 000 | 207 | 12 000 | 827 |
| G212 | 12 | 305 | 1/8 | 1/8 | 3 500 | 241 | 14 000 | 965 |
| G212S* | 12 | 305 | 1/8 | 1/8 | 3 500 | 241 | 14 000 | 965 |
| G218 | 18 | 457 | 1/8 | 1/8 | 3 500 | 241 | 14 000 | 965 |
| G218S* | 18 | 457 | 1/8 | 1/8 | 3 500 | 241 | 14 000 | 965 |

^{*} With spring guard

Extensions for manually operated grease guns, bulk (unpackaged)

| Model | Description | | Thread size NPT (m) | Maximum pressure Working | | Burst pressure | |
|--|----------------------|--------------------------|-------------------------------|------------------------------------|--------------------------|--------------------------------------|--------------------------|
| _ | in. | mm | in. | psi | bar | psi | bar |
| 75912CL 75918CL 75924CL 75936CL | 12 18 24 36 | 305 457 610 914 | 1/8 1/8 1/8 1/8 | 3 000 3 000 3 000 3 000 | 207 207 207 207 | 12 000 12 000 12 000 12 000 | 827 827 827 827 |







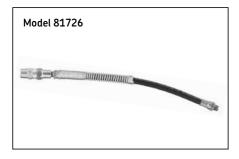
Whip hose extensions for PowerLubers

PowerLuber whip hoses

| Model | Desci | ription | Thread siz inlet UNEF | ze outlet NPT (m) | Maximum Working | pressure |
|--------|-------|---------|------------------------------------|-------------------------|---------------------------|----------|
| | in. | mm | in. | in. | psi | bar |
| 1218 | 18 | 457 | 7/16 | 1/8 | 7 500 | 517 |
| 1224 | 24 | 610 | 7/16 | 1/8 | 7 500 | 517 |
| 1230 | 30 | 762 | 7/16 | 1/8 | 7 500 | 517 |
| 1236 | 36 | 914 | 7/16 | 1/8 | 10 000 | 689 |
| 1248HP | 48 | 122 | 7/16 | 1/8 | 10 000 | 689 |
| | | | | | | |

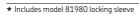


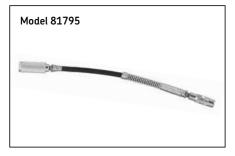
Model 1230 These hoses only fit Lincoln battery-operated PowerLuber grease guns and model 1162 air-operated grease guns.



Assemblies for standard hydraulic fittings

| Model | Whip hose | | | Coupler | Thread size NPT (m) | Maximur Working | n pressure |
|--------------------------|----------------------|----------------|-------------------|----------------------|---|---------------------------|-------------------|
| _ | _ | in. | mm | _ | in. | psi | bar |
| 81725 81726 81795* | 5818 5812 5812 | 18 12 12 | 457 305 305 | 5845 5845 5845 | 1/ ₈ 1/ ₈ 1/ ₈ | 4 500 4 500 4 500 | 310 310 310 |





Assemblies for button-head couplers with swivel

| | | | | | | | | _ |
|------------------------------|------------------------------|----------------------|--------------------------|--|---|----------------------------------|---------------------------------|---|
| Model | Whip h | iose | | Coupler | Thread size NPT (m) | Maximu Working | m pressure | |
| _ | - | in. | mm | _ | in. | psi | bar | |
| 3029 3034 3055 3056 | 5812 5812 5861 5861 | 12 12 36 36 | 305 305 914 914 | 80933/large 81458/standard 81458/standard 80933/large | 1/ ₈ 1/ ₈ 1/ ₈ | 4 000 4 000 4 000 4 000 | 276 276 276 276 276 | |

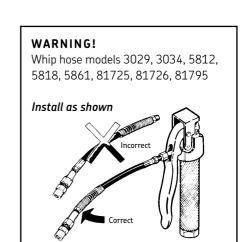




Flexible and rigid extension adapter

Model 5858

Maximum working pressure 5 000 psi (345 bar). Allows operator to switch from flexible to rigid extension with one hand. Overall length 13 in. (330 mm). 1/8 in. NPT (m). For use on hand guns or air operated grease control valves.





Model 5858

SKF

Grease couplers

Hydraulic couplers – standard

- 6 000 psi (408 bar) maximum operating pressure.
- For all hydraulic type grease fittings.
- Small outside diameter permits easy contact with recessed fittings.
- Built-in ball check prevents leak and lubricant backup.
- Inlet 1/8 in. NPT (f).
- Bulk model 245978

Hydraulic coupler displays

Model 5852

- One hydraulic coupler in a resealable clamshell.
- 3-jaw design

Model 5852-2

 Two hydraulic couplers in the same clamshell as model 5852.

Model 5852-5

 Contains five couplers; reduces cost per unit.

Model 5852-54 counter display

 Contains 54 couplers in a displayable box; best value.

Model 5845 heavy-duty

- 7 500 psi (517 bar) maximum operating pressure.
- 11/16 in. hex
- Inlet 1/8 in. NPT (f)
- Bulk model 245976

Model 5848 adapter

- 7 500 psi (517 bar) maximum operating pressure.
- Built-in swivel allows full 360° circle.
- Locks in any one of eight 45° positions.
- Adjustable coupler section permits contact with fittings in reverse positions.
- Angle body has ¹/₈ in. NPT (f) inlet permits addition of pipe extension when required.

Model G300 standard grease coupler

For use with most hand-operated grease guns and equipment. ¹/₈ in. NPT 4-jaw design.

Special access grease couplers

Model 5883 90° grease coupler

- Provides access to difficult to reach fittings.
- Allows for easy lubrication in tight areas.



Hydraulic coupler displays

Button-head couplers and adapters

Model 80933

4 000 psi (276 bar) maximum operating pressure. For pull-on, push-on or hook-on service. Use with large 7/8 in. (22 mm) diameter button-head fittings. 7/16 in.-27 (f) thread.

Model 81458

Same as model 80933 except for 5/8 in. (16 mm) diameter button-head fittings.

Model 10460

5 000 psi (345 bar) maximum operating pressure. For adapting standard or large button-head couplers to hose with ½ in. NPT connections. ½ in. NPT (f) x ½ 16 in.-27 (m) thread. Use gasket model 31138, not included.

Model 10536

4 500 psi (310 bar) maximum operating pressure. For adapting standard or large button-head couplers to hose with ³/₈ in. NPT connections. ³/₈ in. NPT (f) x ⁷/₁₆ in.-27 (m) thread. Use gasket model 31138, not included.







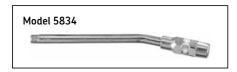








Hand-held greasing tools and accessories – grease coupler extensions and adapters









Model 5884*







Grease coupler extensions and adapters

Model 5834

7 500 psi (517 bar) maximum operating pressure. Includes model 5845 coupler and model 62028 6 in. (152 mm) extension tube. ¹/₈ in. NPT (m) connection.

Model 5853

6 000 psi (408 bar) maximum operating pressure. Includes model 5852 hydraulic coupler and model 62028 6 in. (152 mm) extension tube. 1/8 in. NPT (m) connection.

Rigid extensions

Model 62028

6 in. (152 mm) length. Tough, heavy-wall seamless steel tubing. 1/8 in. NPT (m) at each end.

Model 62061

Same as model 62028 except 12 in. (305 mm) length.

Model 62117

Same as 62028 except 18 in. (457 mm) length.

26

Quick-connect grease accessories

Model 5884*

Contains model 5883 90° grease coupler plus a quick-connect locking sleeve for fast access to hard-to-reach lube points.

Model 5859 angle*

- 90° angle solves problem of contacting so-called "inaccessible" grease fittings.
- Design eliminates need to remove "deep dish" wheels for lubrication of the tie rod ends and ball joints.
- Use to service cars, truck, machines and farm equipment.

Model 5855 recessed*

Straight extension. Use to lubricate recessed fittings where obstructions will not permit use of hydraulic coupler. Includes extension and locking sleeve.

Model 81980 locking sleeve*

For adapting any 1/8 in. NPT (m) extension to a hydraulic coupler.

Model 5849 360 degree*

7 500 psi (517 bar) maximum operating pressure. Includes model 5848 360° coupler for full swivel, 2 in. (51 mm) steel extension tube and locking sleeve.

* With quick-connect locking sleeve.

WARNING!

Never point needle nozzles, adapters or coupler at any part of the body or another person.



SKF

Hand-held greasing tools and accessories – grease coupler extensions and adapters

Needle nozzles

Model 5803

Allows operator to contact flush type or hard-to-reach hydraulic type fittings. 1/8 in. NPT (f) thread.

Model 5806

Same as model 5803 except 6 in. (152 mm) length.

Model 82784*

Same as model 5803 except with extension and locking sleeve.

Model 83278*

Use to lubricate U-joints and spindles. Attaches to hydraulic coupler of control valve or grease gun. Includes rubber tip.

Impact fitting cleaner

Model 5805

- Clears hardened grease from fittings/ ioints.
- Includes steel drive cylinder, piston, safety shield, high-pressure hose and model 5852 coupler and carrying case.

Grease injection tool

Model 5807*

- Provides a solution to noisy sealed bearings, joints, chassis pivot points, dry splines, etc.
- Provides a way to apply a long-lasting lubricant into close-fitting areas
- Allows access into difficult-to-reach areas
- Includes a quick-connect coupler to limit grease by-pass
- Includes a threaded protective cap that removes and reattaches safely and easily
- Quickly attaches to all 3- and 4-jaw grease couplers
- · For use with hand guns only

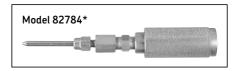
Grease adapter kit

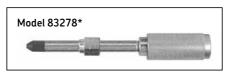
Model 58000*

Heavy-duty lube accessory kit contains quick-connect versions of seven of Lincoln's most popular lube accessories. Use with all standard grease guns and dispensing devices. Includes models: 5849, 5855, 5859, 5884, 81795, 82784 and 83278.

* With quick-connect locking sleeve.













WARNING!

Never point needle nozzles, adapters or coupler at any part of the body or another person.

Model 5468



Model 5470

Packaged grease fittings

Packaged fittings - U.S. threads

All the most popular fittings and sizes.

Model 5468 Mini

Ten assorted grease fittings in three popular sizes, blister packed on one card.

Model 5468 - assortment contents

| Quantity | Description |
|----------|---|
| _ | in. |
| 6 2 2 | 1/4-28 straight 1/4-28 45° 1/4-28 90° |

Model 5470 economy

24 assorted grease fittings in six popular sizes, blister packed on one card.

Model 5470 - assortment contents

| Quantity | Description |
|-------------|---|
| | in. |
| | |
| 5 5 8 | ¹ / ₈ NPT straight ¹ / ₄ -28 straight, short thread ¹ / ₈ NPT 45° angle |
| } } } | ¹ /4-28 45° angle, short thread ¹ /8 NPT 90° angle ¹ /4-28 90° angle, short thread |

Model 5469





Model 5469 deluxe

100 assorted grease fittings in six popular sizes. Sturdy, easy to handle transparent dispenser box has labeled and illustrated compartments.

Model 5469 - assortment contents

| Quantity | Description |
|----------|--------------------------------|
| _ | in. |
| 20 | 1/8 NPT straight |
| 40 | 1/4-28 straight, short thread |
| 10 | 1/4-28 45° angle, short thread |
| 10 | 1/8 NPT 65° angle |
| 10 | 1/8 NPT 90° angle |
| 10 | 1/4-28 90° angle, short thread |





1/4 in.-28 SAE taper thread packs

Short thread grease

| Model | Description |
|----------------------|--|
| | in. |
| 5191 5291 5491 | Card of (10) straight fittings Card of (10) 45° angle fittings Card of (10) 90° angle fittings |

1/8 in. NPT pipe thread packs

Grease fittings

| Model | Description |
|----------------------|--|
| _ | in. |
| 5190 5290 5490 | Card of (10) straight fittings Card of (10) 45° angle fittings Card of (10) 90° angle fittings |

28 **SKF** Hand-held greasing tools and accessories – packaged grease fittings

Packaged fittings - metric threads

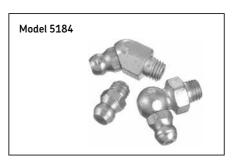
All the most popular fittings and sizes.

Model 5184 Mini

An assortment of three of the most used 6 mm sizes and configurations blister packed on one card.

Model 5184 - assortment contents

| Quantity | Description |
|-------------|---------------------------------------|
| | mm |
| 6 2 2 | 6 mm straight 6 mm 45° 6 mm 90° |



Model 5185 economy

30 grease fittings in three of the most popular **6 mm** metric sizes blister packed on one convenient card.

Model 5185 - assortment contents

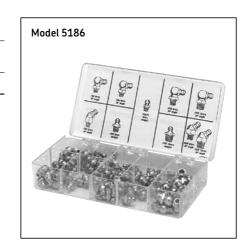
| Quantity | Description |
|--------------|---------------------------------------|
| _ | mm |
| 16 6 8 | 6 mm straight 6 mm 45° 6 mm 90° |

Model 5186 deluxe

100 assorted grease fittings in all the most popular metric sizes. Sturdy, easy to handle dispenser box has labeled and illustrated compartments.

Model 5186 – assortment contents

| Quantity | Description | |
|----------------|--|--|
| _ | mm | |
| 40 20 10 | 6 mm straight 6 mm 45° 6 mm 90° | |
| 5 5 5 | 8 mm straight 8 mm 45° 8 mm 90° | |
| 5 5 5 | 10 mm straight 10 mm 45° 10 mm 90° | |



Model 5000



Boxed and bulk grease fittings

Bulk and boxed fittings – 1/8 in. NPT thread

| Model Bulk (each) | Model 100 piece box | Description | Size | |
|----------------------|-------------------------------|-------------|-------------------------------|------|
| _ | - | _ | in. | mm |
| 5000 | 5000C | Straight | ²¹ / ₃₂ | 16,7 |
| 5003 | 5003C | Straight | 1 ¹ / ₄ | 31,8 |
| 5200 | 5200C | 45° angle | ⁷ / ₈ | 22,2 |
| 5300 | 5300C | 65° angle | ²⁹ / ₃₂ | 23,1 |
| 5400 | 5400C | 90° angle | ²⁷ / ₃₂ | 21,4 |



Bulk and boxed fittings -1/4 in. NPT thread

| Model Bulk (each) | Model 100 piece box | Description | Size | |
|-----------------------------|------------------------|---------------------------------------|---|--------------|
| _ | _ | - | in. | mm |
| 5050 5350 | 5050C 5350C | 1/4 NPT straight 1/4 NPT 65° angle | ¹⁵ / ₁₆ 1 ⁵ / ₃₂ | 23,8 29,4 |





Bulk and boxed fittings - 1/4 in.-28 NPT thread

| Model Bulk (each) | Model 100 piece box | Description | Size | |
|-----------------------------|------------------------|--------------------------|-----------------------------|------|
| _ | _ | _ | in. | mm |
| 5010 | 5010C | Straight – short thread | 1/ ₂ | 12,7 |
| 5013 | 5013C | Straight – long thread | 11/ ₁₆ | 17,5 |
| 5527 | 5527C | Straight – short thread | 31/ ₆₄ | 12,3 |
| 5210 | 5210C | 45° angle – short thread | ⁷ / ₈ | 22,2 |
| 5410 | 5410C | 90° angle – short thread | 25/ ₃₂ | 19,8 |



LINCOLN

Bulk and boxed fittings - metric threads

| Model Bulk (each) | Model 100 piece box | Description | Size | |
|----------------------|-------------------------------|-------------|------|------|
| _ | _ | _ | mm | in. |
| 5175 | 5175C | Straight | 6 | 0.24 |
| 5176 | 5176C | 45° | 6 | 0.24 |
| 5177 | 5177C | 90° | 6 | 0.24 |
| 5178 | 5178C | Straight | 8 | 0.32 |
| 5179 | 5179C | 45° | 8 | 0.32 |
| 5180 | 5180C | 90° | 8 | 0.32 |
| 5181 | 5181C | Straight | 10 | 0.39 |
| 5182 | 5182C | 45° | 10 | 0.39 |
| 5183 | 5183C | 90° | 10 | 0.39 |

Button head fittings

| Model Bulk | Model 100 piece box | Description | Size | |
|----------------------|-------------------------------|--|--|--------------|
| _ | _ | in. | in. | mm |
| 5701 5706 | 5701C 5706C | ¹ / ₈ NPT (m) thread ¹ / ₄ NPT (m) thread | ^{25/} 32 ^{53/} 64 | 19,8 21,0 |



Drive-type fittings

| Model Bulk (each) | Model 100 piece box | Description | Size | | Diame | eter |
|------------------------------|------------------------------|--|---------------------------------|------------------------------|---|--------------------------|
| _ | _ | - | in. | mm | in. | mm |
| 5033 5385 5318 5031 | 5033C 5385C - 5031C | Straight 65° angle 65° angle Straight | 9/16 13/16 49/64 37/64 | 14,3 20,6 19,4 14,7 | 3/16 3/16 1/ ₄ 5/16 | 4,8 4,8 6,4 7,9 |





Important ordering information

To order **bulk fittings**: specify exact quantity desired. Product will arrive in one package containing that quantity.

To order **100 piece boxed fittings**: specify exact quantity of boxes desired. Product will arrive in boxes containing 100 fittings each.





Model 20028



Grease fitting thread adapters, bushings, angle bodies and tools

Metric thread adapters

Convert any 1/4 in.-28 thread grease fitting to metric thread.



Metric thread adapters

| Model | Size NPT |
|-------------------------------|--|
| _ | in. |
| 103307E 103308E 103309E | 6 mm x ¹ /4-28 (f) 8 mm x ¹ /4-28 (f) 10 mm x ¹ /4-28 (f) |

Fitting bushings and angle bodies



Fitting bushings and angle bodies

| Model | Description | Size NPT |
|-------|----------------|---|
| _ | - | in. |
| 10461 | Hex bushing | 1/8 (f) x 1/4 (m) |
| 10787 | Face bushing | 1/8 (f) x 1/4 (m) |
| 20028 | 45° angle body | 1/8 (f) x 1/8 (m) |
| 20029 | 90° angle body | ¹ / ₈ (f) x ¹ / ₈ (m) |
| 20026 | 90° angle body | ¹ / ₄ -28 (m) x ¹ / ₈ (f) |

A combination tool used to remove worn or broken fittings and to retap holes for installation of new fittings. Tool contains sockets for removing both straight and angle fittings. May also be used to remove old pin-type fittings.

Model 66953

Easy-out tools

For tapping $\frac{1}{4}$ in.-28 threads and removal of both $\frac{3}{8}$ and $\frac{5}{16}$ in. hex. straight or angle fittings.

Model 90776

For tapping $\frac{1}{8}$ in. NPT threads and removal of $\frac{7}{16}$ in. hex. straight or angle fittings.

Model G904 small 4-way grease fitting tool

For tap repair of damaged threads (1/4 in. -28 NPT) and removal of broken fittings.

Model G905 large 4-way grease fitting tool

For tap repair of damaged threads (1/8 in. NPT) and removal of broken fittings.

Fitting drive tools

Model 11485

Use to install straight drive-type fittings only.

Model 11509

Use to install angle drive-type fittings only.









LINCOLN 32 SKF

Lincoln bearing packers

Flush and pack in one operation eliminating inefficient and messy hand packing.

Model 224

Universal bearing packer forces out old grease while evenly injecting fresh grease. Pack bearing up to 4 ½ in. OD. Connects to standard grease coupler.

Model 816

Services bearings with 5/8 to $1 \frac{1}{2}$ in. ID. This versatile, compact unit mounts on work-bench or wall. Bearing is flushed and packed by contacting fitting in packer head with power gun control valve or by high-pressure hand gun. Overall dimension (height x width): $4 \frac{1}{2} \times 4$ in. (114 x 102 mm) $3 \frac{1}{4}$ in. OD.

Model 102891

Bearing packer head only; for bench mounting or attachment to any Lincoln air-operated economy, series 20 or 40 grease pump. Services bearings 1 $^{3}/_{4}$ to 9 $^{1}/_{2}$ in. 0D with minimum ID of $^{9}/_{16}$ in. Accepts grease through fitting from high-pressure control valve or hand gun. For bench mount use $^{1}/_{2}$ in. $(12,7 \, mm)$ pipe flange.

Model 844

Services bearings to 9 $^{1}/_{2}$ in. OD with minimum $^{9}/_{16}$ in. ID. Includes adapter model 45987 to service bearings from 1 to 1 $^{3}/_{4}$ in. OD. For use with 120 lb. (54 kg) original refinery container (not included). Includes model 84780 universal follower.

- Specifications:
 - Maximum pressure 800 psi (55 bar).
 1 oz. (28 ml) per stroke.
- Finish:
- Drum cover in red enamel, pump head and handle in black.
- Dimensions:
 - Overall height 41 ⁷/₈ in. with standard
 120 lb. (54 kg) drum.

Model 102697 super speed packer

Services bearings with 5/8 to $1 \frac{1}{2}$ in. ID with up to $3 \frac{1}{4}$ in. OD on passenger cars, light trucks and farm vehicles. Clamps securely on 25 to 50 lb. (11 to 22 kg) original refinery container. Primes easily and pumps efficiently even when using heavy greases at low temperatures. Includes flexible follower.

- Finish:
 - Drum cover in red enamel.
- Dimensions:
 - Overall height 21 in.

Model 102929

Same as model 102697 except has larger packer head to service bearing to 9 1 /2 in. OD with minimum ID of 9 /16 in. Includes adapter to permit servicing smaller bearings of 1 to 1 3 /4 in. OD. Includes flexible follower plate.













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Series 20, 25, 40 pumps



PowerMaster pumps



Air-operated diaphragm pumps



Manual rotary pumps



DEF compatible transfer pumps

PMV pump family

Designed for exceptional performance, long service life, low maintenance cost

Lincoln's new PMV family of grease and oil pumps represents 100 years of high-quality engineering, technology and manufacturing. The unique, modular design of these pumps includes precision-machined parts made with durable materials which allows for a longer pump life.

Based on Lincoln's proven PowerMaster III air logic pump technology, PMV is a simple design with few moving parts. This translates to exceptional performance, long service life and low maintenance cost.





















PMV features and benefits

Air valve assembly

- Proven design based on the PowerMaster III air logic pump technology
 - More than 25 years of precision pump engineering ensures dependable, quiet performance
- Modular, fastened by four bolts
 - Quick and easy to maintain throughout the service life of the pump
- Precision machined and made from aircraft aluminum
 - Precise, durable and less susceptible to temperature than plastic spools
- Runs without external lubrication
 - Reduces cost of ownership
- No springs, rods, levers or slides
 - Fewer parts to wear out, increasing durability, decreasing repair cost
- Designed to work in a contaminated air supply

Air cylinder

- One-piece cylinder casting contains all ports and passages
 - Simplifies repairs
- One-piece piston
 - No connection to any rods, spools, springs or poppets reduces premature mechanical failures, simplifies repairs
- One o-ring on the piston
 - Reduces leak paths, improves durability

Pump tube

- One-piece, machined gland nut
 - Easy to maintain over the life of the pump
- Divorced pump tube and air motor seal
 - Air motor seal is a separate o-ring which reduces the chance of contamination in the motor

Pump seals

- Made from durable polyurethane
 - Compatible with a wide range of natural and synthetic lubricants
- PMV grease pumps and 5:1 and 10:1
 oil pumps feature copper gasket seal
 between externally threaded pump tube
 and outlet body; 6:1 pump uses polyure thane seal on internal pump tube threads
 - Helps to ensure a positive seal against extreme pressure conditions

Pump rod

- Hard-chrome plated
 - Allows for superior sealing and extends the life of the rod

Outlet check

- For oil pump models
- Protects pump from system back pressure







Oil pumps with 10 W 30 motor oil

PMV 3 in. 5:1 pumps¹⁾

Reels with 50 ft. $(15,24 \text{ mm}) \times \frac{1}{2}$ in. ID hose (Alemite model 8078–D) Electronic meters (models 905, 953, 954)

PMV 4.25 in. 10:1 pumps1)

Reels with 50 ft. (15,24 mm) x $^{1}/_{2}$ in. ID hose (Alemite model 8078-D) Electronic meters (models 905, 953, 954)

PMV 4.25 in. 6:1 pumps^{2), 3)}

Reels with 50 ft. (15,24 mm) x 1/2 in. ID hose (Alemite model 8078-D) Electronic meters (models 905, 953, 954)

 $^{5}/8$ OD x 0.049 in. (1,24 mm) wall tubing $^{3}/4$ OD x 0.049 in. (1,24 mm) wall tubing

 $^5/8$ OD x 0.049 in. (1,24 mm) wall tubing $^3/4$ OD x 0.049 in. (1,24 mm) wall tubing

1.25 in. sch. 40 seamless pipe 1.5 in. sch. 40 seamless pipe

All systems based on 100 psi (6,89 bar) air input and 70 °F (21 °C) ¹¹ Two simultaneous dispenses at 1 gallon/min. (3,78 liter/min.) each ²¹ Four simultaneous dispenses at 1 gallon/min. (3,78 liter/min.) each ³¹ 6:1 pumps are for stub or wall mount only. Not for use with bung bushings.

Grease pumps with NLGI #1 grease

PMV 3 in. 50:1 pumps⁴⁾

Reels with 50 ft. (15,24 mm) x 3/s ID hose (Alemite model 8078-T) Control valve and swivel (models 3050, 81729)

PMV 4.25 in. 50:1 pumps⁵⁾

Reels with 50 ft. (15,24 mm) x 3/8 ID hose (Alemite model 8078-T) Control valve and swivel (models 3050, 81729)

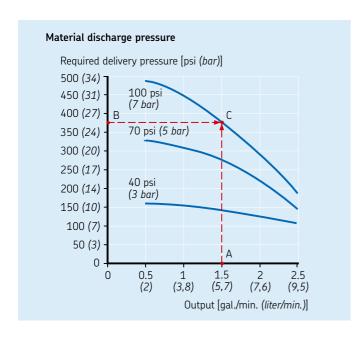
 $^{5}/_{8}$ OD x 0.083 in. (2,11 mm) wall tubing) $^{5}/_{8}$ OD x 0.083 in. (2,11 mm) wall tubing

 $^3/4$ OD x 0.109 in. (2,769 mm) wall tubing 1 in. sch. 160 pipe

All systems based on 100 psi $(6.89\ bar)$ air input and 70 °F $(21\ ^{\circ}C)$ 4) Two simultaneous dispenses at 0.125 lbs./min. $(56.7\ grams/min.)$ each 5) Four simultaneous dispenses at 0.125 lbs./min. $(56.7\ grams/min.)$ each

- 1 Values are for typical systems
- **2** Some of the factors that affect actual system's performance
 - **2.1** Temperature
 - 2.2 Viscosity
 - **2.3** Number and type of fitting (elbows, tees, reducers) and connecting hoses
 - 2.4 Air supply pressure, scfm, line size
- 3 Lincoln can provide system design and/or performance parameters for any specific application. Contact your representative.
- **4** For specific installations, please refer to Lincoln's Vehicle Service Planning Manual

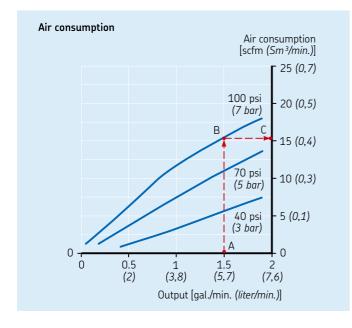
Pump performance curves



Material discharge pressure

To find material discharge pressure [psi (bar)] at a specific delivery [gal./min. (liter/min.)] and air pressure [psi (bar)]:

- 1 Locate required gal./min. (liter/min.) output along bottom of scale (example 1.5 gal./min.)
- 2 Locate system pressure requirement from calculations along the vertical right scale (example 375 psi)
- **3** Plot intersection of two points on the graph
 - **3.1** If intersection falls on or below a solid air PSI curve, then the pump will be OK for the given output and pressure requirements.



Air consumption

To find air consumption [scfm (Sm³/min.)] at a specific delivery [gal./min. (liter/min.)] and air pressure [psi (bar)]:

- **1** Locate required delivery along bottom of scale (example 1.5 gal./min.)
- 2 Follow vertical line up to where it intersects with air pressure curve (dashed line)
- **3** Follow the line horizontally to the right column of chart to determine air consumption

LINCOLN 38 SKF

5:1 oil pump technical data

Pumping ratio 5:1

Air pressure 40 to 150 psi (2,7 to 10,3 bar) 750 psi (51,7 bar)

Maximum output pressure Air inlet 3/8 NPTF

Material outlet

Material inlet

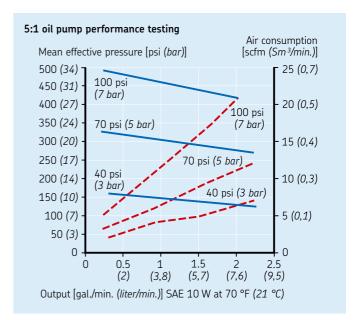
1/2 NPTF 1 1/2 NPTF Airmotor bore diameter 3 in. (76,2 mm)

Stroke 3 ¹/₄ in. (82,5 mm) Output per cycle 6.7 cu. in. (110 cm³) Cycles per gallon 34.5/gallons (9,1/liter)

Wetted parts Carbon steel, brass, zinc, polyurethane, nitrile 7 gallon/min. (26,5 liter/min.) Free flow

Overall length (stub) 17 3/8 in. (442 mm)

Decibels less than 85 at all normal operating conditions



6:1 oil pump technical data

Pumping ratio 6:1

40 to 150 psi (2,7 to 10,3 bar) Air pressure

Maximum output pressure

900 psi (62 bar) 3/8 NPTF

Air inlet

1/2 NPTF

Material outlet Material inlet Airmotor bore diameter

1 1/2 NPTF 4 ¹/₄ in. (108 mm)

Stroke Output per cycle Cycles per gallon 3 ¹/₄ in. (82,5 mm) 11.9 cu. in. (195 cm3) 19.4/gallons (5,1/liter)

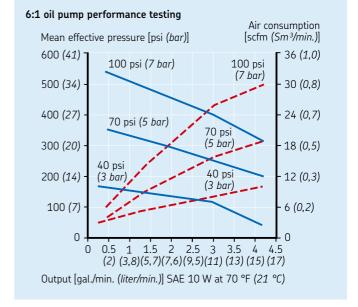
Wetted parts

Carbon steel, brass, zinc, polyurethane, nitrile

Free flow Overall length (stub)

7 gallon/min. (26,5 liter/min.) 18 7/s in. (480 mm)

Decibels less than 85 at all normal operating conditions



10:1 oil pump technical data

Pumping ratio 10:1

40 to 150 psi (2,7 to 10,3 bar) Air pressure Maximum output pressure

Air inlet

1 500 psi (103 bar) 3/8 NPTF

1/2 NPTF

Material outlet Material inlet Airmotor bore diameter

1 1/2 NPTF 4 ¹/₄ in. (108 mm)

Stroke Output per cycle Cycles per gallon 3 ¹/₄ in. (82,5 mm) 7.2 cu. in. (118 cm³) 32.1/gallons (8,5/liter)

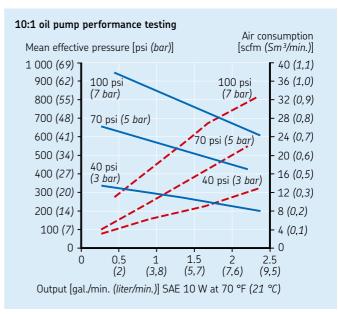
Wetted parts

Carbon steel, brass, zinc, polyurethane, nitrile

Free flow Overall length (stub) 5 gallon/min. (18,4 liter/min.)

17 7/16 in. (443 mm)

Decibels less than 85 at all normal operating conditions















PMV 3 in. (76,2 mm) oil pumps

Model V30500SSU

Package includes:

- Bare pump model V305000000
- Stub/universal kit model K00000SSU
 - Bung bushing model 85824
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 2 ft. (0,6 m) air hose model 72024A
 - $\frac{1}{2}$ in. x 2 ft. (0,6 m) fluid hose model 73024
 - 90° swivel model 241584

Model V305055BB

Package includes:

- Bare pump model V305000000
- 55 gallon (208 liter) bung mount kit model K000055BB
 - Bung bushing model 85824
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - 1/2 in. x 5 ft. (1,5 m) fluid hose model 73060
 - Down tube model 85807
 - 90° swivel model 241584

Model V305016DC

Package includes:

- Bare pump model V305000000
- 16-gallon (60,6 liter) drum cover kit model K000016DC
 - Drum cover model 85826
 - Suction tube model 85806
 - Air coupler/nipple model 5874/5875

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- 3/8 in. x 5 ft. (1,5 m) air hose model 273299
- 1/2 in. x 5 ft. (1,5 m) fluid hose model 73060

Model V305275BB

Package includes:

- Bare pump model V305000000
- 275 gallon (1 041 liter) pump mount kit model K000275BB
 - Bung bushing model 85824
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - 1/2 in. x 5 ft. (1,5 m) fluid hose model 73060
 - Universal suction tube model 85949

Model V30500SWM

Package includes:

- Bare pump model V305000000
- Remote suction kit model 84945
- Wall mount kit model 275398
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - 1/2 in. x 5 ft. (1,5 m) fluid hose model 73060
 - 90° swivel model 241584
 - Wall mount assembly model 275413

Model V305055LT

Package includes:

- Bare pump model V305000000
- Drum cover and hose kit model K000055LT
 - 400 lb. (181 kg) drum cover with tie rods model 83115
 - Down tube model 85807
 - Lifting eye model 275415
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299

LINCOLN

SKF

PMV 4.25 in. (108 mm) oil pumps

Model V40600SSU 6:1 stub pump

Package includes:

- Bare pump model V406000000
- 6:1 stub kit model K40600SSU
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 2 ft. (0,6 m) air hose model 72024A
 - 1/2 in. x 2 ft. (0,6 m) fluid hose model 73024
 - 90° swivel model 241584

Model V40600SWM 6:1 wall mount pump

Package includes:

- Bare pump model V406000000
- Remote suction kit model 84945
- Wall mount kit model 275398
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - 1/2 in. x 5 ft. (1,5 m) fluid hose model 73060
 - 90° Swivel model 241584
 - Wall mount assembly model 275413

Model V41000SSU 10:1 stub/universal pump

Package includes:

- Bare pump model V410000000
- Stub/universal kit model K00000SSU
 - Bung bushing model 85824
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 2 ft. (0,6 m) air hose model 72024A
 - 1/2 in. x 2 ft. (0,6 m) fluid hose model 73024
 - 90° swivel model 241584

Model V410055DC 10:1 55 gallon (208 liter) pump with drum cover

Package includes:

- Bare pump model V410000000
- 55-gallon (208 liter) drum cover kit model K000055DC
 - Drum cover model 85827
 - Suction tube model 85807
 - 90° swivel model 241584
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - 1/2 in. x 5 ft. (1,5 m) fluid hose model 73060









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Model V410055BB 10:1 55 gallon (208 liter) pump with bung bushing

Package includes:

- Bare pump model V410000000
- 55 gallon (208 liter) bung mount kit model K000055BB
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - 1/2 in. x 5 ft. (1,5 m) fluid hose model 73060
 - Down tube model 85807
 - 90° swivel model 241584

Model V41000SWM 10:1 wall mount pump

Package includes:

- Bare pump model V410000000
- Remote suction kit model 84945
- Wall mount kit model 275398
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - ½ in. x 5 ft. (1,5 m) fluid hose model 73060
 - 90° swivel model 241584
 - Wall mount assembly model 275413

Model V410055LB 10:1 55 gallon (208 liter) lubrication truck pump with bung bushing

Package includes:

- Bare pump model V410000000
- 55 gallon (208 liter) lubrication truck kit with bung bushing model K000055LB
 - Bung bushing model 85824
 - Tie rod kit model 83131
 - Suction tube model 85807
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299

Model V410055LT 10:1 55 gallon (208 liter) lubrication truck pump with drum cover

Package includes:

- Bare pump model V410000000
- Drum cover and hose kit model K000055LT
 - 400 lb. (181 kg) drum cover with tie rods model 83115
 - Down tube model 85807
 - Lifting eye model 275416
 - Air coupler/nipple model 5874/5875
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299

LINCOLN

PMV oil pump accessories

PMV runaway controller

Model V340HH

Compatible with new and existing Lincoln PMV pumps, the runaway controller shuts off the pump and signals an alarm if the pump exceeds a preset cycle rate.

- Fully electronic
- Monitors and controls based on positive pump-cycle count
- Operates independently of air supply volume and pressure
- Prevents pump damage due to high runaway speeds if lubrication drum or tank is depleted
- Limits spills if broken hose or line leak causes pump to run faster than preset cycle rate

Low-level cutoffs

Automatically shuts off flow of oil; keeps air out of the pump when tank or drum level is low. Recommended when dispensing oil through metering devices to conform with standards of the National Conference of Weights and Measures.

- Model 82439 for 1 ½ in. NPT suction tubes
- Model 84946 for 1 NPT suction tubes

Model 275413 wall mount bracket

Wall mount bracket for PMV pumps.

Thermal pressure protection

Protect lubrication system components from high pressure spikes caused by temperature change in a closed fluid network.















Thermal relief kit shown on PMV pump

Thermal pressure protection

Model V340HH technical data

Model Range

Power

relay

External signal

V340HH

2 A 30 V DC

0.5 A 125 V AC

5 to 75 cycles/min. 9 V lithium ion battery

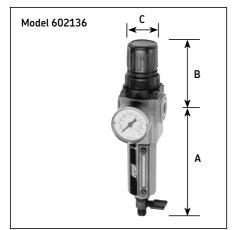
| Model | Description | Application | Pre-set relief pi | | Size NPT |
|----------------------------|---|---|-----------------------|-----------------|---|
| _ | _ | _ | psi | bar | in. |
| 282876 275197 282957 | Valve only Valve only Valve only | 3:1, 5:1, 6:1 3:1, 5:1, 6:1 3:1, 5:1, 6:1, 10:1, 12:1 | 1 000 500 1 500 | 68 34 103 | 1/ ₂ 1/ ₂ 1/ ₂ |
| 277601-1 | Kit with valve, | PMV 5:1 and 6:1 | 900 | 62 | Integrated |
| 277601-2 | hose, adapters Kit with valve, hose, adapters | PMV 10:1 | 1 500 | 103 | Integrated |

^{*} Adapt PMV kits to PowerMaster III stub pump tube (model 84986) with a 300 lb. (136 kg) malleable iron 2 x 1.5 in. (50,8 x 38,1 mm)



Model 85806 Model 85807





Suction kit

Model 84945 suction kit

For transfer of product from drums, bulk tanks or reservoirs. Includes bung bushing suction tube, hose and coupling assembly.

Note: 2×1 in. $(50.8 \times 25.4 \text{ mm})$ bell reducer required for use with model 1914, supplied by others – general plumbing part.

Model 85806

16 gallon (60 liter) suction tube.

Model 85807

55 gallon (208 liter) suction tube.

Modular air line equipment accessories – lockout valve

Install in-line or modular with other AirCare products to help conform to OSHA lockout regulations. In the closed position, valves block inlet air flow and exhaust downstream air.

Lockout valve

| Model | Modular use | In-line use | Maxim pressu | | Temperatu | re range |
|--------|----------------|----------------|-----------------|-------|-----------|------------|
| _ | in. | in. | psi | bar | °F | °C |
| 247771 | ³/s modular | 3/8 | 250 | 17,24 | 0 to 150 | –18 to +65 |

Integrated, modular filter and regulator with gauge

| Model | Maxi | | | erature | Press | | Drain | Size | Size | | | | | | | | Weig | ht |
|--------|-------|-------|-------------|---------------|-------------|-----------------|--------|------|------|-----|------|----|------|----|------|------|------|-----|
| | press | oure | range | = | range | = | type | PTF | Α | | В | | С | | Diam | eter | | |
| _ | psi | bar | °F | °C | psi | bar | - | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 602136 | 250 | 17,24 | 0 to 150 | -18 to +65 | 5 to 150 | 0,3 to 10,34 | Manual | 3/8 | 5.27 | 134 | 2.89 | 73 | 1.98 | 50 | 3.29 | 83 | 1.2 | 0,5 |

Element particle size 40µ



Model 85824 bung bushing

Screws in bung opening of 55 gal. (208 liter) drums and custom-built tanks to secure PMV pumps. Plated to resist rust. Threaded 2 in. NPT (m).

Model 277020 heavy-duty bung bushing

For outdoor use. Protection from the environment is provided by plating and two gaskets.

Model 85826 drum cover for 120 lb. (54 kg) drum

For mounting PMV pumps on open 120 lb./16 gal. (54 kg/60 liter) drums.

Model 85827 drum cover for 400 lb. (181 kg) drum

For mounting PMV pumps on open 400 lb. or 55 gal. (181 kg or 208 liter) drums.

Model 83115 lubrication truck drum cover tie rod assembly for 400 lb. (181 kg) drum

Secures PMV pump and 400 lb. or 55 gal. (181 kg or 208 liter) drum to lubrication truck deck.

Model 82989 lubrication truck drum cover tie rod assembly for 120 lb. (54 kg) drum

Secures PMV pump and 120 lb. or 16 gal. (54 kg or 60 liter) drum to lubrication truck deck

Model 273299 air inlet hose

3/8 in. ID x 5 in. (127 mm) air hose.

Quarter-turn valves

Model 66084 medium pressure

¹/₂ in. NPT (f), 600 psi (*52 bar*) maximum working pressure.





















50:13 in. grease pump technical data

Pumping ratio 50:1

40 to 150 psi Air pressure (2,7 to 10,3 bar) 7 500 psi (517 bar) Maximum output pressure 3/8 NPTF Air inlet

Material outlet 1/4 NPTF Airmotor bore diameter 3 in. (76,2 mm)

Stroke 3 ¹/₄ in. (82,5 mm)

Output per cycle 0.78 cu. in. (12,8 cm³) Carbon steel, brass, zinc, Wetted parts polyurethane, nitrile Free flow 168 cu. in./min. (2 753 cm³/min.)

27 ⁷/₈ in. (708 mm) Overall length (stub) 35 lb. (15 kg) 120 lb. (54 kg) 36 ³/₈ in. (924 mm)

400 lb. (181 kg) 42 ⁷/₈ in. (1 089 mm)

Decibels less than 85 at all normal operating conditions

50:1 3 in. grease pump performance testing Air consumption Mean effective pressure [psi (bar)] [scfm (Sm³/min.)] 5 000 (345) 25 (0,7) 100 psi (7 bar) 4 500 (310) 100 psi (7 bar) 4 000 (276) 20 (0,6) 3 500 (241) 70 psi (5 bar) 3 000 (207) 15 (0,4) 70 psi (5 bar) 2500 (172) 2 000 (138) 10 (0,3) 40 psi (3 bar) 1 500 (103) 40 psi (3 bar) 1 000 (69) 5 (0,1) 500 (35) Λ 0.25 0.5 0.75 1 1.25 1.5 1.75 (0,1) (0,2) (0,3) (0,4) (0,6) (0,7) (0,8) (0,9) Output [lbs/m (kg/m)] NLGI #2 at 70 °F (21 °C)

50:1 4.25 in. grease pump technical data

50:1 Pumping ratio

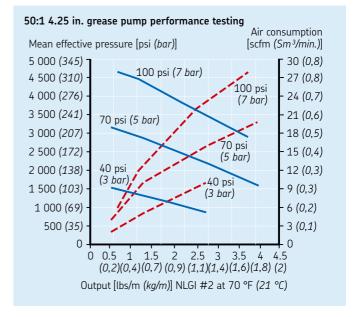
40 to 150 psi Air pressure (2,7 to 10,3 bar) Maximum output pressure 7 500 psi (517 bar) Air inlet 3/8 NPTF

1/4 NPTF Material outlet 4 ¹/₄ in. (108 mm) Airmotor bore diameter Stroke 3 ¹/₄ in. (82,5 mm)

Output per cycle 1.47 cu. in. (24,1 cm³) Wetted parts Carbon steel, brass, zinc, polyurethane, nitrile Free flow 220 cu. in./min. $(3.605 \text{ cm}^3/\text{min.})$

Overall length (stub) 120 lb. (54 kg) 36 ⁷/₁₆ in. (926 mm) 400 lb. (181 kg) 42 ¹⁵/₁₆ in. (1 091 mm)

Decibels less than 85 at all normal operating conditions



LINCOLN SKF 46

PMV 3 in. (76,2 mm) grease pumps

Model V350120000 50:1 3 in. 120 lb. (54 kg) bare pump

Model V350400000 50:1 3 in. 400 lb. (181 kg) bare pump

Model V350400DC 50:1 3 in. 400 lb. (181 kg) stationary package

Package includes:

- Bare pump model V350400000
- 400 lb. (181 kg) drum cover kit model K050400DC*
 - 400 lb. (181 kg) drum cover model 85827
 - Air coupler/nipple model 5874/5875
 - ½ in. x 5 ft. (1,5 m) grease hose model 75060
 - (2) hose connectors model 10198
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - Elbow union model 80202

Model V350120DC 50:1 3 in. 120 lb. (54 kg) stationary package

Package includes:

- Bare pump model V350120000
- 120 lb. (54 kg) stationary kit model K050120DC*
 - Drum cover model 85826
 - (2) Hose connectors model 10198
 - Elbow union model 80202
 - ½ in. x 5 ft. (1,5 m) grease hose model 75060
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - Follower model 84780
 - Air coupler/nipple model 5874/5875

Model V350120HF 50:1 3 in. 120 lb. (54 kg) inductor package

Package includes:

- Bare pump model V350120000
- Hoist/follower kit model 274932

Model V350400HF 50:1 3 in. 400 lb. (181 kg) inductor package

Package includes:

- Bare pump model V350400000
- Hoist/follower kit model 275260 *

Model V350120LT 50:1 3 in. 120 lb. (54 kg) lubrication truck package

Package includes:

- Bare pump model V350120000
- 120 lb. (54 kg) lubrication truck kit model K050120LT
 - 120 lb. (54 kg) drum cover with tie downs model 82989
 - Elbow union model 80202
 - Air coupler/nipple model 5874/5875
 - Lifting eye model 275415

Model V350400LT 50:1 3 in. 400 lb. (181 kg) lubrication truck package

Package includes:

- Bare pump model V350400000
- 400 lb. (181 kg) lubrication truck kit model K050400LT
 - 400 lb. (181 kg) drum cover with tie rods model 83115
 - Elbow union model 80202
 - Air coupler/nipple model 5874/5875
 - Lifting eye model 275415















*⚠ WARNING

California Proposition 65: Cancer and reproductive harm www.P65Warnings.ca.gov

Model V450120000



Model V450120DC









PMV 4.25 in. (108 mm) grease pumps

Model V450120000 50:1 4.25 in. 120 lb. (54 kg) bare pump

Model V450400000 50:1 4.25 in. 400 lb. (181 kg) bare pump

Model V450120DC* 50:1 4.25 in. 120 lb. (54 kg) stationary package

Package includes:

- Bare pump model V450120000
- 120 lb. (54 kg) stationary kit model K050120DC*
 - Drum cover model 85826
 - (2) hose connectors model 10198
 - 1/4 in. x 5 ft. (1,5 m) grease hose model 75060
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - Follower model 84780
 - Air coupler/nipple model 5874/5875
 - Elbow union model 80202

Model V450400DC* 50:1 4.25 in. 400 lb. (181 kg) stationary package

Package includes:

- Bare pump model V450400000
- 400 lb. (181 kg) drum cover kit model K050400DC*
 - 400 lb. (181 kg) drum cover model 85827
 - Air coupler/nipple model 5874/5875
 - 1/4 in. x 5 ft. (1,5 m) grease hose model 75060
 - (2) hose connectors model 10198
 - 3/8 in. x 5 ft. (1,5 m) air hose model 273299
 - Elbow union model 80202

For heavy greases and/or low temperatures, order follower model 85825 on $(\rightarrow$ page 55).

Model V450400HF 50:1 4.25 in. 400 lb. (181 kg) inductor package

Package includes:

- Bare pump model V450400000
- Hoist/follower kit model 275260 *

Model V450120LT 50:1 4.25 in. 120 lb. (54 kg) lubrication truck package

Package includes:

- Bare pump model V450120000
- 120 lb. (54 kg) lubrication truck kit model K050120LT
 - 120 lb. (54 kg) drum cover with tie downs model 82989
 - Elbow union model 80202
 - Air coupler/nipple model 5874/5875
 - Lifting eye model 275416

Model V450400LT 50:1 4.25 in. 400 lb. (181 kg) lubrication truck package

Package includes:

- Bare pump model V450400000
- 400 lb. (181 kg) lubrication truck kit model K050400LT
 - 400 lb. (181 kg) drum cover with tie rods model 83115
 - Elbow union model 80202
 - Air coupler/nipple model 5874/5875
 - Lifting eye model 275416

*▲ WARNING

California Proposition 65: Cancer and reproductive harm www.P65Warnings.ca.gov



PMV grease pump accessories

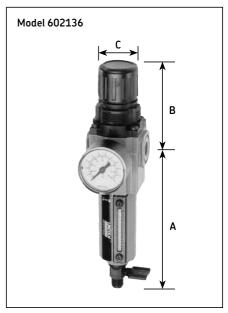
Modular air line equipment accessories – lockout valve

Install in-line or modular with other AirCare products to help conform to OSHA lockout regulations. In the closed position, valves block inlet air flow and exhaust downstream air.

Lockout valve

| Model | Modular use | In-line use | Maximum pressure | Temperature range |
|--------|----------------|----------------|---------------------|---------------------|
| _ | in. | in. | psi bar | °F °C |
| 247771 | ³/8 modular | 3/8 | 250 17,24 | 0 to 150 —18 to +65 |





Integrated, modular filter and regulator with gauge

Can be used with other AirCare modular components.

Integrated, modular filter and regulator with gauge

| Model | | mum | | erature | Press | | Drain | Size | Size | | | | | | | | Weig | jht |
|--------|-------|-------|-------------|---------------|-------------|-----------------|--------|------|------|-----|------|----|------|----|------|------|------|-----|
| | press | suie | rang | E | range | - | type | PTF | Α | | В | | С | | Diam | eter | | |
| _ | psi | bar | °F | °C | psi | bar | _ | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 602136 | 250 | 17,24 | 0 to 150 | –18 to +65 | 5 to 150 | 0,3 to 10,34 | Manual | 3/8 | 5.27 | 134 | 2.89 | 73 | 1.98 | 50 | 3.29 | 83 | 1.2 | 0,5 |

 $\overline{\text{Element particle size 40}\mu}$

Model 84780















Follower plates

Recommended when pumping viscous lubricants that will not seek their own level.

Model 84780

For use with 120 lb. (54 kg) containers for 1, $1^{1/4}$, $1^{3/8}$, $1^{1/2}$ and $2^{1/8}$ in. diameter pump tubes. Used with series 20 and 40 air-operated grease pumps.

Model 85825

Deluxe pressed steel follower plate for 400 lb. (181 kg) drums includes a seal in the hub to prevent channelling of grease past the pump tube.

Model 85826 drum cover for 120 lb. (54 kg) drum

For mounting PMV pumps on open 120 lb./16 gal. (54 kg/60 liter) drums.

Model 85827 drum cover for 400 lb. (181 kg) drum

For mounting PMV pumps on open 400 lb. or 55 gal. (181 kg or 208 liter) drums.

Model 83115 lubrication truck drum cover tie rod assembly for 400 lb. (181 kg) drum

Secures PMV pump and 400 lb. or 55 gal. (181 kg or 208 liter) drum to lubrication truck deck.

Model 82989 lubrication truck drum cover tie rod assembly for 120 lb. (54 kg) drum

Secures PMV pump and 120 lb. or 16 gal. (54 kg or 60 liter) drum to lubrication truck deck.

Model 273299 air inlet hose

3/8 in. ID x 5 in. (127 mm) air hose.

Shut-off valves

Model 778 needle-type valve for chassis grease

High pressure valve with 1/4 in. NPT (f).

Lifting eye

Model 275416

Attach to PMV pump for easy drum removal/insertion with air-operated elevator model 1709.



The 3:1 and 5:1 stub pump family from Lincoln

Motor oil, ATF, gear lubrication and other fluid lubricants

For more than 100 years, Lincoln's exclusive pump designs have proven their superiority in application after application. And our line-up of strong, silent oil-dispensing pumps is no exception.

Both our stub pumps are built with the same rugged reliability and powerful performance you've come to expect from Lincoln. They are super quiet – the quietest pumps on the market. They deliver increased output for faster product delivery. And they let you handle a wider range of applications with total mounting flexibility.

Lincoln has taken the time-proven pump design of the Lincoln model 84933 5:1 pressure ratio balanced double-acting oil stub pump and created a more compact air motor to produce a 3:1 pressure ratio balanced double-acting oil stub pump, model 282396. This pump creates a versatile, economical, reliable and smooth delivering lower pressure version of the Lincoln 5:1 ratio pump.

Since model 282396 balanced doubleacting 3:1 pressure ratio oil stub pump and model 84933 balanced double-acting 5:1 pressure ratio oil stub pump share all dimensions other than air motor cylinder diameter, these pumps are now directly interchangeable without piping changes.

The Lincoln oil pump design enables all pump users to choose 3:1 ratio or 5:1 ratio pump models to suit their specific application.

Series 25 and 40 oil pump features

- More powerful.
 - 25 or 40 cu. in. (409,7 or 655,5 cm³) air motor with universal mounting capability.
- Balanced double-acting pump design provides uniform output and stroke for less pulsation [7.5 cu. in./cycle (123 cm³/cycle)].
- · Longer life.
 - Full 4 ½ in. (114 mm) stroke for fewer cycles per gallon dispensed.
- Lightweight, corrosion—resistant zinc head casting design incorporates uniform wall thickness. Keeps pumping while other pumps slow down or stop due to icing.
- 150 psi (10,34 bar) air motor with integral patented muffler. Keeps noise below OSHA standards without compromising performance.
- Ball check valve helps keep pump primed.
- Pneumatically assisted mechanical air valve assures positive tripping.
- Springless air motor construction prevents premature pump failure due to spring fatigue.
- Precision-machined, hardened steel slide valve for longer life.
- Designed for greater cycle rates. Exceeds maximum limits recommended for competitive pumps.
- Large pump outlet.
 - 1/2 in. (12,7 mm) NPT(f).
- Easier serviceability.
 - Majority of parts are common with other series 20, 25 and series 40 pumps.
- Each pump is 100% electronically tested to assure quality performance.
- Backed by the most extensive, qualified service network in the industry.
- Large pump inlet.
 - 1 in. (25,4 mm) NPT(f) inlet with 1 ½ in. (38,1 mm) NPT(m) pump inlet for versatile pump mounting and full oil flow.
- Backed by our five year limited warranty.
 See your Lincoln representative for details.









lubrication and other fluid lubricants

3:1 and 5:1 • Motor oil, ATF, gear

Model 282396 3:1 bare stub pump

Model 282398 3:1 series 25 stub pump

Package includes:

- Bare stub pump model 282396
- Pump cover kit model 84935
- Oil connecting hose model 73024
- Air connecting hose model 72024
- All conflecting hose model 72024
- 90° volume union elbow model 241584
- Air coupler model 815
- Air nipple model 11659
- Bung bushing model 84538

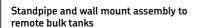
Model 84934 5:1 series 40 stub pump

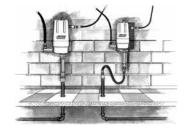
Package includes:

- Bare stub pump model 84933
- Pump cover kit model 85935
- Oil connecting hose model 73024
- Air connecting hose model 72024
- 90° volume union elbow model 241584
- Air coupler model 815
- Air nipple model 11659
- Bung bushing model 84538

Model 84538

Versatile stub pump mounting options





3:1 (282398) or 5:1 (84934) pump, wall mount kit (84940), low level cut-off (84946) or foot valve (85765).

Wall mount to any size drum



3:1 (282398) or 5:1 (84934) pump, wall mount kit (84940), suction kit (84945) and low level cut-off (84946) or foot valve (85765).

Above ground tank



[275 gallon (1 041 liter) tank shown] 3:1 (282398) or 5:1 (84934) pump and universal suction kit (85949).

55 gallon (208 liter) drum mount using bung bushing



3:1 (282398) or 5:1 (84934) pump and 55-gallon drum suction (85755).

16 gallon (60 liter) drum mount using drum cover



3:1 (282398) or 5:1 (84934) pump, drum cover (46007) and 16-gallon drum suction kit (85716).

55 gallon (208 liter) drum mount on lubrication truck using drum cover



3:1 (282398) or 5:1 (84934) pump, eyebolt kit (84941), drum cover/tie–down kit (83115) 55 gal. (*208 liter*) drum suction kit (85755).



5KF

Series 25 • 3:1 • Motor oil, ATF, gear lubrication and other fluid lubricants

Shop, garage and lubrication truck* applications – 16 gal. (60 liter) drums

Model 2437

Package includes:

- Pump model 282396
- Lubricant connecting hose model 73060
- Volume elbow model 241584
- Air connecting hose model 72060
- Air coupler model 815
- Air nipple model 11659

Lubrication truck and mobile applications – 55 gal. (208 liter) drum

Model 284231

Package includes:

- Pump model 282133
- Eyebolt kit model 84941
- Drum cover with tie down assembly model 83115
- Air coupler model 815
- Air nipple model 11659







55 gal. (208 liter) drums

Model 2424

Package includes:

- Pump model 282133
- 2 in. (50,8 mm) NPT (m) bung bushing model 84538
- Volume union elbow model 241584
- Air coupler model 815
- Air nipple model 11659
- Lubricant connecting hose model 73060
- Air hose model 72060
- * For lubrication truck applications, contact your Lincoln distributor.

250 or 275 gal. (946 or 1 041 liter) drums

Model 284168

Package includes:

- Pump model 282396
- Universal suction tube kit model 85949
- Bung bushing model 84538
- Lubricant connecting hose model 73060
- Volume elbow model 241584
- Air connecting hose model 72060
- Air coupler model 815
- Air nipple model 11659



lubrication and other fluid lubricants Shop and garage applications -16 gal. (60 liter) drums

Series 40 • 5:1 • Motor oil, ATF, gear

Model 2537

Package includes:

- Pump model 84933
- Lubricant connecting hose model 73060
- Volume elbow model 241584
- Air connecting hose model 72060
- Air coupler model 815
- Air nipple model 11659
- Drum cover model 46007

55 gal. (208 liter) drums



Model 2524

Package includes:

- Pump model 84933
- 2 in. NPT (m) bung bushing model 84538
- Volume union elbow model 241584
- Air couple model 815
- Air nipple model 11659
- Lubricant connecting hose model 73060
- Air hose model 72060

Note: Order drum cover model 81523 separately.



Comes complete with model 84933 pump and model 85949 universal suction tube kit, model 84538 bung bushing, air and lubricant connecting hose. Pumps oil, gear lubrication, ATF, etc. from tanks, drums.

Model 285231

Package includes:

- Pump model 285133
- Eyebolt kit model 84941
- Drum cover with tie down assembly model 83115
- Air coupler model 815
- Air nipple model 11659



Model 285168

LINCOLN

SKF 54

Series 25 oil pumps

| Model | Description | Bare pump | Free deli | e very | Ratio | Drum size | | Air Inlet NPT | Size NPT | Use / location |
|------------------|--|------------------|--------------|-----------|------------|--------------|-----------------------------|------------------------------------|------------------------------------|--------------------------|
| _ | _ | _ | gal. | liter | _ | gal. | liter | in. | in. | _ |
| 282133 282396 | Bare drum pump Bare stub pump | 282396 282396 | 6 | 22 22 | 3:1 3:1 | 55 Stub/u | 208 niversal | 1/ ₄ 1/ ₄ | 1/ ₂ 1/ ₂ | Replacement Universal |
| 2424 2437 | Stationary Stationary with suction kit model 85716 | 282133 282396 | 6 6 | 22 22 | 3:1 3:1 | 55 16 | 208 60 | 1/ ₄ 1/ ₄ | 1/ ₂ 1/ ₂ | Shop Shop |
| 282398 284168 | Stub pump assembly Stationary tank | 282396 282396 | 6 6 | 22 22 | 3:1 3:1 | | niversal 946 or 1 041 | 1/ ₄ 1/ ₄ | 1/ ₂ 1/ ₂ | Universal Shop |
| 284231 | Lube truck | 282133 | 6 | 22 | 3:1 | 55 | 208 | 1/4 | 1/2 | Lube truck |

All models based on model 282396 series 25 3:1 bare oil pump which delivers 6 gallon/min. (22 liter/min.) free flow plus a suction tube.

Series 40 oil pumps

| Model | Description | Bare pump | Free deli | | Ratio | Drum size | | Air Inlet NPT | Size NPT | Use / location |
|-----------------|---|----------------|--------------|----------|------------|---------------|-----------------------------|------------------------------------|------------------------------------|--------------------------|
| _ | - | _ | gal. | liter | _ | gal. | liter | in. | in. | _ |
| 84933 285133 | Bare stub pump Bare pump with tube | 84933 84933 | 6 | 22 22 | 5:1 5:1 | Stub/uı 55 | niversal 208 | 1/ ₄ 1/ ₄ | 1/ ₂ 1/ ₂ | Universal Replacement |
| 2524 2537 | Stationary 55 gal. (208 liter) Stationary 16 gal. (60 liter) with suction kit model 85716 | 84933 84933 | 6 6 | 22 22 | 5:1 5:1 | 55 16 | 208 60 | 1/ ₄ 1/ ₄ | 1/ ₂ 1/ ₂ | Shop Shop |
| 84934 285168 | Stub pump assembly Stationary tank | 84933 84933 | 6 6 | 22 22 | 5:1 5:1 | | niversal 946 or 1 041 | 1/ ₄ 1/ ₄ | 1/ ₂ 1/ ₂ | Universal Shop |
| 285231 | Lube truck | 84933 | 6 | 22 | 5:1 | 55 | 208 | 1/4 | 1/2 | Lube truck |

All models based on model 84933 series 40 5:1 bare oil pump which delivers 6 gallon/min. (22 liter/min.) free flow plus a suction tube.



Model 84538



Model 85824



Medium-pressure pump accessories

Bung bushing, low-level cut-off and foot valves

| Model | Description | Thread size NPT | Notes |
|-------------------------|--|---|---|
| _ | _ | in. | _ |
| | | | |
| 84538 | Pump bung bushing | 2 (m) | Mounts series 25 or 40 pump to 2 in. (50,8 mm) oil drum opening |
| 85824 | Bung bushing | 2 (m) | Mounts PMV pumps to 55 gal. (208 liter) drum or custom-built tanks |
| 82439 84946 85765 | Low-level cutoff Low-level cutoff Foot valve | 1 ¹ / ₂ (m) 1 (m) 1 (f) | Used with new oil oil pumps |



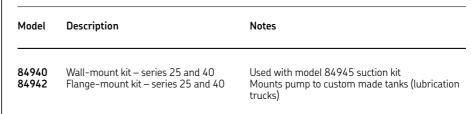




Model 84940



Wall mount kits







Suction kits

| Model | Description | Thread size NPT | Notes |
|-------|--|---------------------------|---|
| _ | _ | in. | - |
| | | | |
| 84945 | Remote suction kit | 1 (f) | Includes 5 ft. $(1,5 m)$ oil hose, bung bushing and 1 x 32 in. $(0,8 m)$ pipe |
| 85716 | 16 gal. (60,57 liter) drum suction kit | 1 (m) | Adapts any series 25 or 40 oil pump to 16 gallon (60 liter) drum |
| 85755 | 55 gal. (208,2 liter) drum suction kit (steel) | 1 (m) | Adapts any series 25 or 40 oil pump to 55 gallon (208 liter) drum |
| 85949 | Universal suction kit | 1 (m) | Adapts any series 25 or 40 oil pump to drum or tank use |



Pump covers

| Model | Description | Notes |
|-------|-------------|------------------------|
| 84935 | Pump cover | Series 20 pumps |
| 85935 | Pump cover | Series 25 and 40 pumps |



LINCOLN 56 **SKF**

Hose

| Model | Description | Thread size NPT (m) | Maximum pressure | | |
|-------------------------|--|---|---------------------|-------------------------|--|
| _ | - | in. | psi | bar | |
| 72036 72060 73036 | 3 ft. (0,9 m) low-pressure connecting 5 ft. (1,5 m) low-pressure connecting 3 ft. (0,9 m) medium-pressure connecting | 1/ ₄ 1/ ₄ 1/ ₂ | 250 250 1 000 | 17,24 17,24 68,95 | |
| 73060 | 5 ft. (1,5 m) medium-pressure connecting | 1/2 | 1 000 | 68,95 | |





Eye-bolt kit

Model 84941

Eye bolt kit for all series 20, 25 and 40 pumps, makes drum changing easy. Two part kit screws directly onto pump for lifting with pump elevator.

Shut-off valves

See fittings and accessories section for pump shut-off valves.

Lubricant filters

Model 84004

For mounting at pump outlet. Contains replaceable 140 micron stainless steel filter element model 69524. ½ in. NPT (m) inlet and outlet. 1 % in. hex. steel body. Maximum pressure 5 000 psi (344,7 bar). 100 mesh screen.



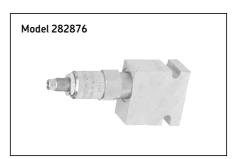


Thermal pressure protection

Protect lubrication system components from high pressure spikes caused by temperature change in a closed fluid network.

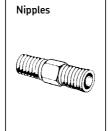
Thermal pressure protection models

| Model | Description | Application | Pre-set relief pr | | Size NPT |
|--|---|---|------------------------------|-----------------------|--|
| _ | - | - | psi | bar | in. |
| 282876 275197 282957 277601-3 | Valve only Valve only Valve only Kit with valve, hose, adapters | 3:1, 5:1, 6:1 3:1, 5:1, 6:1 3:1, 5:1, 6:1, 10:1, 12:1 Series 40 5:1, series 20 3:1 | 1 000 500 1 500 900 | 68 34 103 62 | 1/2 1/2 1/2 1/2 Integrated |



Reducing bushing





Reducing bushings

| Model | Thread size | Construction | | | |
|------------------|--|----------------|--|--|--|
| _ | in. | _ | | | |
| 10200* 10204* | 1/8 NPT (f) x 1/2-27 (m) 1/4 NPT (f) x 1/2-27 (m) | Brass Brass | | | |

*AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Reducing couplings

| Model | Thread size NPT (f) | Construction |
|-----------------|--|----------------|
| _ | in. | _ |
| 11852 10522* | ¹ / ₈ x ¹ / ₂ -27 ¹ / ₄ x ¹ / ₂ -27 | Steel Brass |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Nipples

| Model | Thread size NPT (m) | Construction | | | | | |
|--------|---|--------------|--|--|--|--|--|
| | in. | _ | | | | | |
| 10130 | 1/8 x 1/8 | Steel | | | | | |
| 10199* | 1/8 x 1/2-27 | Brass | | | | | |
| 10462 | 1/4 x 1/4 | Steel | | | | | |
| 10198* | 1/4 x 1/2-27 | Brass | | | | | |
| 10540 | 3/8 x 3/8 | Steel | | | | | |
| 11107 | 3/8 x 1/2 | Steel | | | | | |
| 11197 | ¹ / ₂ x ¹ / ₂ | Steel | | | | | |
| 12957 | ¹ / ₂ x ¹ / ₂ -27 | Steel | | | | | |
| 10202* | ¹ / ₂ -27 x ¹ / ₂ -27 | Brass | | | | | |
| 12296 | 3/4 × 3/4 | Steel | | | | | |

*AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Model 778

Reducing couplings



Adapter unions

| Model | Thread size | Construction |
|-------|---|----------------|
| _ | in. | _ |
| 66883 | 1/2 NPSM (f) x 1/2 NPT (m) 1 NPT (f) swivel x | Steel Steel |
| | 1 NPT (m) | 51551 |

Shut-off valves - needle-type for chassis grease

| Model | Thread size NPT (f) | Construction |
|------------|---------------------------------|-----------------------------|
| | in. | _ |
| 778 884 | 1/ ₄ 3/ ₈ | High pressure High pressure |
| 885 | 1/2 | High pressure |

Maximum working pressure 10 000 psi (680 bar)



Quarter-turn valves

High pressure

Control lever with "on" or "off" positions provides visual check as to whether lubrication line is open or closed. Buna-N seals with PTFE seat.

Quarter-turn valves - high pressure

| Model | Inlet size NPT (f) | Maximu | ım pressure | |
|-------------------------|---|-------------------------|-------------------|--|
| | in. | psi | bar | |
| 69503 69425 69423 | ¹ / ₂ ³ / ₄ 1 | 2 000 2 500 2 500 | 138 172 172 | |

Quarter-turn valves - medium pressure

| Model | Inlet size NPT (f) | Maxim | um pressure |
|-----------------|------------------------------------|------------|-------------|
| _ | in. | psi | bar |
| 256200 66084 | 1/ ₄ 1/ ₂ | 600 600 | 52 52 |



The heavy-duty 50:1 grease pump family from Lincoln

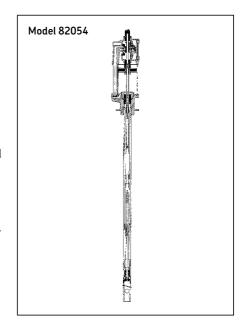
Lincoln air-operated lubrication equipment models featuring our high-pressure Series 20 and 40 grease pumps have been performance proven in automotive, agricultural, heavy-duty, marine, construction and industrial facilities throughout the world.

- Series 20 grease pumps include the time-proven 20 cu. in. (409,7 cm³) displacement Lincoln air motor with 2 ½ in. (63,5 mm) stroke – ideal for most applications.
- Series 40 grease pumps include the time-proven 40 cu. in. (655,5 cm³) displacement Lincoln air motor with 4 ½ in. (114 mm) stroke – ideal for high volume applications.

These pumps are built for power, durability and dependability and these exclusive engineering features ensure top performance and longer service life.

Series 20 and 40 grease pump features

- Lightweight, corrosion-resistant zinc head casting design incorporates uniform wall thickness and an integral patented muffler which keeps noise level below OSHA standards without compromising performance. Keeps pumping, while other pumps slow down or stop due to icing.
- 150 psi (10,34 bar) pre-lubricated air motor requires no external oiler.
- Pneumatically assisted mechanical air valve assures positive tripping.
- Springless air motor construction prevents premature pump failure due to spring fatigue.
- Precision-machined, hardened steel slide valve for longer life – no packings to wear out.
- Powerful.
 - 20 or 40 cu in. (409,7 or 655,5 cm³) air motor.
- Designed for greater cycle rates.
 - Exceeds maximum limits recommended for competitive pumps.
- One piece pump outlet body withstands constant high lubricant pressures.
- Easier serviceability.
 - Majority of parts are common with other series 20, 25 and 40 pumps.
- Faster output.
 - Double-acting design provides high pressure and uniform delivery on both up and down strokes.
- Hardened steel plunger and bushing resist abrasion and prolong pump life.
 Micro-lapped to high precision tolerance to eliminate bypassing lubricant.
- All pumps are 100% electronically tested to assure quality performance.
- Backed by the most extensive, qualified service network in the industry.
- Shovel-type foot valve adds mechanical priming to normal suction. Handles all grades of lubricants.
- Backed by a five-year limited warranty.
 See your Lincoln representative for details.













Series 20 • 50:1 • Double acting

Shop and plant applications

Model 918* 50:1 120 lb. (54 kg) drum

Package includes:

- Bare pump model 82050
- Drum cover model 46007
- Air coupler model 815
- Air nipple model 11659
- 3 ft. (0,91 m) air connecting hose model 72036
- 5 ft. (1,52 m) high-pressure grease connecting hose model 75060
- Deluxe follower plate model 84780
- Volume elbow union model 80202

Model 926* 50:1 400 lb. (181 kg) drum

Package includes:

- Bare pump model 82054
- Drum cover model 81523
- Air coupler model 815
- Air nipple model 11659
- 3 ft. (0,91 m) air connecting hose model 72036
- 5 ft. (1,52 m) high-pressure grease connecting hose model 75060
- Volume elbow union model 80202

Note: A deluxe follower plate model 83366 is recommended for use with this pump (→ page 68).

Model 926-1* 50:1 400 lb. (181 kg) drum

Package includes:

- Bare pump model 82054
- Air coupler model 815
- Air nipple model 11659
- 3 ft. (0,91 m) air connecting hose model 72036
- 5 ft. (1,52 m) high-pressure grease connecting hose model 75060
- Volume elbow union model 80202

Note: A deluxe follower plate model 83366 is recommended for use with this pump (→ page 73).

*▲ WARNING

California Proposition 65: Cancer and reproductive harm www.P65Warnings.ca.gov

Lubrication truck and mobile grease applications

Model 82991 50:1 120 lb. (54 kg) drum

Package includes:

- Bare pump model 82050
- Drum cover and tie rod assembly model 82989
- Eye bolt kit model 84941
- Air coupler model 815
- Air nipple model 11659
- Volume elbow union model 80202

Note: Connecting hoses are not included with this package. Order connecting hoses separately to suit application.

Model 83112 50:1 400 lb. (181 kg) drum

Package includes:

- 1-pump model 83112
- Drum cover and tie rod assembly model 83115
- Air coupler model 815
- Air nipple model 11659
- Volume elbow union model 80202

Note: Connecting hoses are not included with this package. Order connecting hoses separately to suit application.

Note: For lubrication truck/mobile applications (models 82991 and 83112), optional deluxe follower plate is available (→ page 73).

LINCOLN

60 **5KF**

Series 40 • 50:1 • High output, double acting

Shop and garage applications

Model 1418* 50:1 120 lb. (54 kg) drum

Package includes:

- Bare pump model 84667
- Drum cover model 46007
- Air coupler model 815
- Air nipple model 11659
- 3 ft. (0,91 m) air connecting hose model 72036
- 5 ft. (1,52 m) high-pressure grease connecting hose model 75060
- Deluxe follower plate model 84780
- Volume elbow union model 80202

Model 1426* 50:1 400 lb. (181 kg) drum

Package includes:

- Bare pump model 84668
- Drum cover model 81523
- Air coupler model 815
- Air nipple model 11659
- 3 ft. (0,91 m) air connecting hose model 72036
- 5 ft. (1,52 m) high-pressure grease connecting hose model 75060
- Volume elbow union model 80202

Note: Deluxe follower plate model 83366 is recommended for use when pumping extra heavy lubricants and must be ordered separately for this model (→ page 73).

Model 1426-1* 50:1 400 lb. (181 kg) drum

Package includes:

- Bare pump model 84668
- Air coupler model 815
- Air nipple model 11659
- 3 ft. (0,91 m) air connecting hose model 72036
- 5 ft. (1,52 m) high-pressure grease connecting hose model 75060
- Volume elbow union model 80202

Note: Deluxe follower plate model 83366 is recommended for use when pumping extra heavy lubricants and must be ordered separately for this model (→ page 73).

Model 2740* 50:1 400 lb. (181 kg) inductor

Package includes:

- Bare pump model 84668
- Primer assembly with follower model 274681*
- Air powered hoist
- Air coupler model 815
- Air nipple model 11659
- 7 ft. (2,13 m) air hose model 274728
- 7 ft. (2,13 m) grease hose model 75084
- Air regulator for hoist model 602003
- Air gauge model 274843





*▲ WARNING

California Proposition 65: Cancer and reproductive harm www.P65Warnings.ca.gov



Grease pumps for lubrication truck applications

Model 84684 120 lb. (54 kg) drum

Package includes:

- Bare pump model 84667
- Drum cover and tie rod assembly model 82989
- Eye bolt kit model 84941
- Air coupler model 815
- Air nipple model 11659
- Volume elbow union model 80202
- Follower plate not included

Note: Connecting hoses are not included with this package. Order connecting hoses separately to suit application.

Model 84683 400 lb. (181 kg) drum

Package includes:

- Bare pump model 84668
- Drum cover and tie rod assembly model 83115
- Eye bolt kit model 84941
- Air coupler model 815
- Air nipple model 11659
- Volume elbow union model 80202

Note: Connecting hoses are not included with this package. Order connecting hoses separately to suit application.

Note: For lubrication truck and mobile applications, optional deluxe follower plate is available (→ page 74).

Series 20 grease pumps

| Model | Description | Bare pump | Free delivery | | Ratio | Drum size | | Air inlet NPT (f) | Size NPT (f) |
|-------|-------------------------------|-----------|------------------|-----------------|-------|--------------|-------|-----------------------------|------------------------|
| | - | _ | in. ³ | cm ³ | - | lb. | kg | in. | in. |
| 918* | Shop and garage | 82050 | 80 | 1311 | 50:1 | 120 | 54,43 | 1/ ₄ | 1/4 |
| 923* | Shop and garage with elevator | 82050 | 80 | 1311 | 50:1 | 120 | 54,43 | 1/ ₄ | 1/4 |
| 926* | Shop and garage | 82054 | 80 | 1311 | 50:1 | 400 | 181,4 | 1/ ₄ | 1/4 |
| 82991 | Lube truck model | 82050 | 80 | 1311 | 50:1 | 120 | 54,43 | 1/ ₄ | 1/ ₄ |
| 83112 | Lube truck model | 82054 | 80 | 1311 | 50:1 | 400 | 181,4 | 1/ ₄ | 1/ ₄ |

These high-pressure pumps incorporate a 20 cu. in. (327,7 cm³) air motor design Grease strainer model 82103

Series 40 grease pumps

| Model | Description | Bare pump | Free | delivery | Ratio | Drum size | | Air inlet NPT (f) | Material outlet NPT (f) |
|----------------|--|----------------|------------------|-----------------|--------------|--------------|----------------|------------------------------------|------------------------------------|
| _ | _ | _ | in. ³ | cm ³ | _ | lb. | kg | in. | in. |
| 1418* 1426* | High-volume shop High-volume shop | 84667 84668 | 90 90 | 1 475 1 475 | 50:1 50:1 | 120 400 | 54,43 181,4 | 1/ ₄ 1/ ₄ | 1/ ₄ 1/ ₄ |
| 84683 84684 | High-volume lubrication truck High-volume lubrication truck | 84668 84667 | 90 90 | 1 475 1 475 | 50:1 50:1 | 400 120 | 181,4 54,43 | 1/ ₄ 1/ ₄ | 1/ ₄ 1/ ₄ |
| 2740* | Pump with inductor | 84668 | 90 | 1 475 | 50:1 | 400 | 181,4 | 1/4 | 1/4 |

These high-output pumps incorporate a 40 cu. in. (655,5 cm³) air motor design with a 4.5 in. (114 mm) stroke for higher volume output and fewer cycles per pound of grease

 $^{{\}bf ^{*} \triangle WARNING}\ California\ Proposition\ 65: Cancer\ and\ reproductive\ harm.\ www.P65Warnings.ca.gov$



 $^{{\}bf *\triangle WARNING}\ California\ Proposition\ 65: Cancer\ and\ reproductive\ harm.\ www.P65Warnings.ca.gov$

High-pressure pump accessories

Follower plates

Recommended when pumping lubricants that will not seek their own level.

Model 84775

Deluxe universal follower for use with 25 to 50 lb. (11 to 22 kg) containers for 1, 1 ½, and 1 ½ in. diameter pump tubes. All rubber unit ensures complete grease dispensing to the bottom of dented or plastic lined drums; wipes pail or drum clean. Metal cap holds insert firmly in place, ensuring seal and maintaining vacuum.

Model 84780

Same as 84775 except for use with 120 lb. (54 kg) containers for 1, 1 1 /4 and 2 1 /8 in. diameter pump tubes. Used with series 20 and 40 air-operated grease pumps.

Model 83366

Deluxe pressed steel follower plate for 400 lb. (181 kg) drums includes a seal in the hub to prevent channelling of grease past the pump tube.

Drum Covers

Model 46007

Drum cover for 120 lb. (54 kg) or 16 gallon (60 liter) open top refinery containers for all series 20, 25 and 40 pumps.

Model 81523

Drum cover for 400 lb. (181 kg) or 55 gallon (208 liter) open top refinery containers for all series 20, 25 and 40 pumps.

Pump elevator

Model 83447

Pump elevator assembly lifts pump assembly clear of drum for easy, one person drum changes. Helps prevent introduction of foreign material into grease during drum changes. Height with drum is $39^{3}/8$ in. (1 000 mm), $67^{1}/4$ in. (1 708 mm) with elevator raised. Drum not included. For 120 lb. (54 kg) drum.











Follower plates

| - | | | |
|------------------|----------------------|--|--|
| Model | Drum size | Tube ID | Туре |
| _ | lb. (gal) | in. | - |
| 84775 84780 | 400 (55) 120 (16) | 1, 1 ¹ / ₄ , 1 ¹ / ₂ 1, 1 ¹ / ₄ , 2 ¹ / ₈ | Tapered flexible Tapered flexible |
| 83366 | 400 (55) | 1 | Rigid |
| 275183 275184 | 35 (5) 35 (5) | 1 ¹ / ₂ 1 ¹ / ₄ | Flexible-low cost Flexible-low cost |

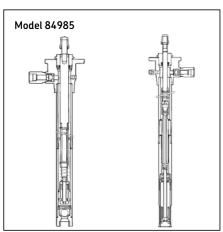
Model 2001





Model 84985





PowerMaster III

Features

- State-of-the-art, fully pneumatic air motors 3 to 4 in. (76,2 to 101,6 mm).
- Full 6 in. (152,4 mm) stroke.
- Modular design for easy repair.
- Pump tubes offer ratios and outputs to fit any application.
- Available to fit any drum or pail size, or bulk tanks.
- Offered in carbon steel, 316 stainless steel or hard chrome plated.
- Full line of priming equipment and mounting devices.

Series III air motors

- Full pneumatic operation for longer life and durability. Only five moving parts.
- Total modular design for ease of service and maintenance.
- Quiet operation.
 - Meets or exceeds OSHA requirements at all recommended operation air pressures.
- Interchangeable with all PowerMaster III pump tubes.
- Acceptability of pump monitors and controls, such as AirBrake.

AirBrake

- Shuts down pump immediately when excessive pump cycle speed (runaway) occurs.
- Prevents pump damage due to a runaway condition.
- Indicates system fault caused by empty container or broken supply line.
- Limits spills due to pump outlet hose failure.
- Sends fault signal to remote alarm locations with optional model 244398 signal kit.
- Can be ordered already installed (refer to pump specification chart).
- Can be added later. Order model 85317.
- Easy to install and set graduated dial with detents.
- Kit model 273429 upgrades existing AirBrake-equipped pumps to the latest specifications.
- Kit model 273835 tamper resistant kit.

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Pump tubes

Ball foot design

- For light- to medium-viscosity, flowable fluids and materials.
- Three styles
 - stub for bulk mounting
 - 55 gallon (208 liter)
 - 16 gallon (60 liter) drum.
- Ratios from 6:1 to 12:1, outputs to 3.9 gal./min. (14,6 liter/min.).
- Complete interchangeability with all series III air motors.
- Exclusive patented, "leakless" gland assembly kit is available as an accessory.

Shovel foot design, plunger and bushing style

- For medium- to high-viscosity, non-pourable materials, such as grease.
- Available in 400 or 120 lb. (205 or 60 liter) drum lengths or mounts on primer for high-viscosity materials.
- Full range of ratios: 10:1 through 75:1 for all applications.
- Selected fit, hardened steel plunger and bushing is particularly well suited to viscous lubricants.
- Complete interchangeability with all series III air motors.
- Exclusive patented, leakless gland assembly kit (to protect gland seal – the only seal in pump tube) is available as an accessory.

Shovel foot design, packed piston-style

- For medium- to high-viscosity, non-pourable materials.
- Furnished with exclusive, patented, leakless gland assembly.
- Available in 55 or 16 gallon (208 or 60 liter) drum lengths. Also suitable for mounting on priming equipment or standpipe mounting for bulk delivery.
- Complete interchangeability with all series III air motors.
- Full range of ratios 10:1 through 32:1.

PileDriver III flatcheck design

- Large ports reduce resistance for improved flow in real world applications.
- 6 in. (152,4 mm) stroke lets the pump work easier to deliver the same or more volume.
- Proven PileDriver III pump tube and PowerMaster III air motor based design is durable, dependable and easy to maintain over the life of the pump.
- 2.5 in. NPTF (f) and 3 in. NPTF (m) inlet offers flexible mounting options.

LINCOLN

SKF

6:13 in. oil pump technical data

Pumping ratio 6:1

30 to 200 psi (2 to 14 bar) Air pressure Maximum output pressure 1 200 psi (84 bar)

Air inlet 1/2 NPTF Material outlet 3/4 NPTF Stub 2 NPTF Material inlet Airmotor bore diameter

3 in. (76 mm) Stroke 6 in. (152 mm) Output per cycle 11.9 cu. in. (195 cm3)

Cycles 20/gallon (5/liter)

Wetted parts Steel, brass, copper, polyurethane,

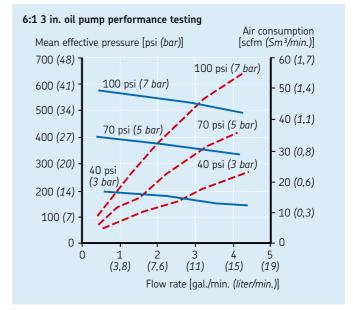
60 ⁷/₈ in. (1 546 mm)

Free flow 12.3 gallon/min. (46,6 liter/min.)

Overall length (stub) 36 in. (914 mm)

Overall length

(55 gal./400 lb./200 liter)



12:1 4.25 in. oil pump technical data

Pumping ratio

Air pressure 30 to 200 psi (2 to 14 bar) Maximum output pressure 2 400 psi (166 bar)

1/2 NPTF Material outlet 3/4 NPTF Stub 2 NPTF Material inlet

4.25 in. (108 mm) Airmotor bore diameter Stroke 6 in. (152 mm) Output per cycle 11.9 cu. in. (195 cm3)

Cycles 20/gallon (5/liter)

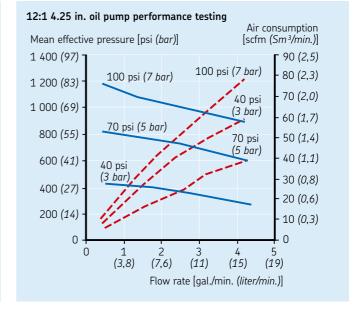
Wetted parts Steel, brass, copper, polyurethane,

nitrile

Free flow 12.3 gallon/min. (46,6 liter/min.)

Overall length (stub) 36 in. (914 mm) Overall length 60 7/8 in. (1 546 mm)

(55 gal./400 lb./200 liter)



12:1 4.25 in. grease pump technical data

Pumping ratio 12:1

200 psi (14 bar) Air pressure Maximum output pressure 2 400 psi (166 bar)

Air inlet 1/2 NPTF Material outlet 3/4 NPTF

Airmotor bore diameter 4.25 in. (108 mm)

6 in. (152 mm) 10.9 cu. in. (179 cm³) Stroke Output per cycle Cycles 21/gallon (5.5/liter)

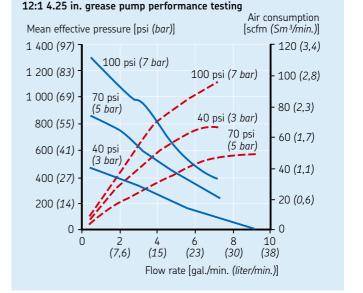
Wetted parts Steel, brass, copper, polyurethane,

Free flow 3.5 gallon/min. (13,2 liter/min.)

Overall length 48 ³/₈ in. (1 229 mm) (55 gal./400 lb./200 liter)

Overall length 62 ¹/₈ in. (1 578 mm)

(16 gal./120 lb.)



50:1 4.25 in. grease pump technical data

Pumping ratio

150 psi (10 bar) Air pressure Maximum output pressure 7 500 psi (517 bar)

1/2 NPTF Material outlet 3/4 NPTF Airmotor bore diameter 4.25 in. (108 mm)

6 in. (152 mm) Stroke 3 cu. in. (49 cm³) Output per cycle 78/gallon (20/liter) Cycles

Wetted parts

Free flow 1 gallon/min. (3,7 liter/min.)

Overall length (55 gal./400 lb./200 liter)

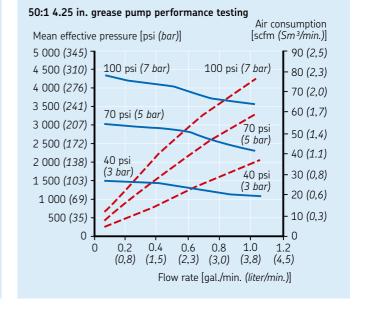
Overall length

(16 gal./120 lb.)

Steel, brass, copper, polyurethane,

62 ¹/₈ in. (1 578 mm)

55 ¹/₂ in. (1 410 mm)



75:1 4.25 in. grease pump technical data

Pumping ratio 75:1

100 psi (7 bar) Air pressure Maximum output pressure 7 500 psi (517 bar)

1/2 NPTF Air inlet Material outlet 3/4 NPTF Airmotor bore diameter 4.25 in. (108 mm)

Stroke 6 in. (152 mm) Output per cycle 2.1 cu. in. (34 cm³) Cycles 111/gallon (29/liter)

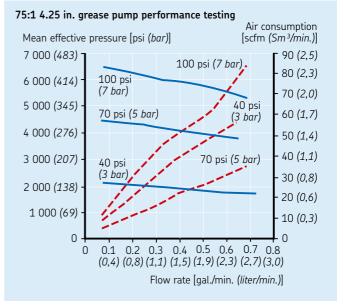
Steel, brass, copper, polyurethane, Wetted parts

Free flow 0.7 gallon/min. (2,6 liter/min.)

Overall length (55 gal./400 lb./200 liter) Overall length (16 gal./120 lb.)

62 ¹/₈ in. (1 578 mm)

55 ¹/₂ in. (1 410 mm)





SKF 66

1.5:1 3 in. oil pump technical data

Pumping ratio 1.5:1

30 to 200 psi (2 to 14 bar) Air pressure

Maximum output pressure 300 psi (21 bar)

1/2 NPTF Air inlet Material outlet 1 ½ NPTF

Material inlet Stub 2.5 NPTF (f); 3 NPTF (m)

Airmotor bore diameter 3 in. (76 *mm*) 6 in. (152 mm) Stroke Output per cycle 46 cu. in. (754 cm³)

Cycles 5/gallon (1/liter)

Wetted parts Steel, brass, copper, polyurethane, Free flow 14.9 gallon/min. (56,5 liter/min.)

Overall length (stub) 44 ¹/₈ in. (1 121 mm)



Pumping ratio

30 to 200 psi (2 to 14 bar) Air pressure

Maximum output pressure 600 psi (41 bar)

1/2 NPTF Air inlet Material outlet 1 1/2 NPTF

Material inlet Stub 2.5 NPTF (f); 3 NPTF (m)

Airmotor bore diameter 4.25 in. (108 mm) Stroke 6 in. (152 mm) Output per cycle 46 cu. in. (754 cm³)

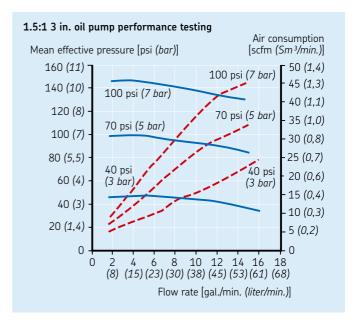
Cycles 5/gallon (1/liter)

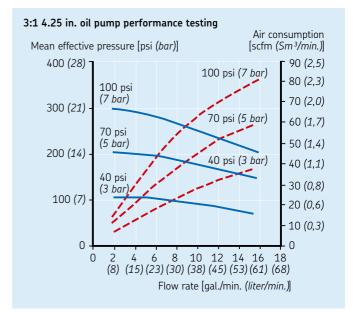
Wetted parts Steel, brass, copper, polyurethane,

nitrile

Free flow 14.9 gallon/min. (56,5 liter/min.)

Overall length (stub) 44 ¹/₈ in. (1 121 mm)





7:16 in. oil pump technical data

Pumping ratio 7:1

30 to 100 psi (2 to 7 bar) Air pressure Maximum output pressure 700 psi (48 bar)

3/4 NPTF Air inlet 1 ½ NPTF Material outlet

Stub 2.5 NPTF (f); 3 NPTF (m) Material inlet

Airmotor bore diameter 6 in. (152 mm) Stroke 6 in. (152 mm) Output per cycle 46 cu. in. (754 cm³)

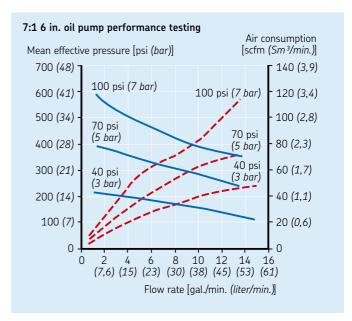
Cycles Wetted parts 5/gallon (1/liter)

Steel, brass, copper, polyurethane,

nitrile

14.9 gallon/min. (56,5 liter/min.) Free flow

Overall length (stub) 43 ¹/₄ in. (1 099 mm)





PowerMaster III air-operated oil pumps

Model 2001 12:1 55 gallon (208 liter) pump

Package includes:

- Powermaster III 4.25 in. air motor model 84804
- Powermaster III ball type pump tube 55 gallon (208 liter) model 84985
- Air coupler model 655008
- Air nipple model 653112

Model 2014 12:1 stub pump

Package includes:

- Powermaster III 4.25 in. air motor model 84804
- Powermaster III stub pump tube model 84986
- Air coupler model 655008
- Air nipple model 653112

Model 2052 6:1 55 gallon (208 liter) pump

Package includes:

- Powermaster III 3 in. air motor model 84803
- Powermaster III ball type pump tube 55 gallon (208 liter) model 84985
- Air coupler model 655008
- Air nipple model 653112

Model 2051 6:1 stub pump

Package includes:

- Powermaster III 3 in. air motor model 84803
- Powermaster III stub pump tube model 84986
- Air coupler model 655008
- Air nipple model 653112

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PowerMaster III grease pumps

Model 2004 75:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84997
- Air coupler model 655008
- Air nipple model 653112

Model 2008 75:1 120 lb. (54 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 120 lb. (54 kg) model 84998
- Air coupler model 655008
- Air nipple model 653112

Model 2010 50:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84995
- Air coupler model 655008
- Air nipple model 653112

Model 2011 50:1 120 lb. (54 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 120 lb. (54 kg) model 84996
- Air coupler model 655008
- Air nipple model 653112

Model 2028 12:1 stub pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube stub model 84918
- Air coupler model 655008
- Air nipple model 653112

Model 2029 12:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84919
- Air coupler model 655008
- Air nipple model 653112

Model 2710 50:1 400 lb. (181 kg) inductor pump [103 in. (2,62 m) raised height]

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84995
- Air coupler model 655008
- Air nipple model 653112
- Primer/follower assembly model 274680
 - 7 ft. (2,13 m) air hose model 273304
 - 7 ft. (2,13 m) gease hose model 274727
 - Air regulator for hoist model 602003
 - Air gauge model 274843

Model 2790 50:1 400 lb. (181 kg) inductor pump with air brake run away control [103 in. (2,62 m) raised height]

Package includes:

- PowerMaster III 4.25 in. air motor with air brake model 94804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84995
- Air coupler model 655008
- Air nipple model 653112
- Primer/follower assembly model 274680
 - 7 ft. (2,13 m) grease hose model 274727
 - Air regulator for hoist model 602003
 - Air gauge model 274843



PowerMaster III special pump

| Model | Air motor | Air motor Pump 1 tube s | | | Tube type | Ratio | Size | Maxin air pre | | Maximi pressui | | Free delive | ery |
|-------|-----------|----------------------------|-----|-------|--------------|-------|------|------------------|------|-------------------|-----|-------------|------------|
| | _ | _ | lb. | kg | - | _ | in. | psi | bar. | psi | bar | gal./min. | liter/min. |
| 2002 | | 84991 | 400 | 181.4 | Shovel | 24:1 | 3/4 | 200 | 14 | 4 800 | 331 | 2.0 | 7.5 |



Model 1904

PowerMaster II

Features

- Gives years of dependable trouble-free operation.
- Costs much less to operate costs much less to maintain.
- High-volume output
 - Air motor has extra-long stroke for powerful, uniform delivery on both up and down strokes.
- Shovel-type pump tube used to add mechanical priming to normal suction when needed.
- Sturdy construction
 - Plunger and bushing of hardened steel for longer life, greater wear resistance.
- Pump outlet body of all-steel construction designed to withstand pulsation and extreme pressure. All wearing parts are tough, heat-treated steel.
- Plunger, bushing and air valve mating parts are micro-lapped to close tolerances. Prevents by-passing of lubricant and bleeding of air. Eliminates need to replace washers and packings.

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- Trouble-free, positive performance
 - Air motor operation has no springs to wear out, rust or lose tension.
 - Air valve is stall-proof, leak-proof and pre-lubricated. Double-acting mechanisms ensure dependable low-surge operation with minimum air consumption.
- Large air passages allow unrestricted venting.
- Simplified maintenance
 - Modular design of pump tube allows for easy disassembly.



Model 1901



Model 1914



SKF

6:13 in. oil pump technical data

6:1 Pumping ratio

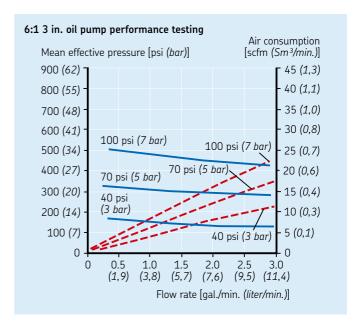
Air pressure 200 psi (14 bar) Maximum output pressure 1 200 psi (84 bar)

1/2 NPTF Air inlet Material outlet 3/4 NPTF Stub 2 NPTF Material inlet Airmotor bore diameter 3 in. (76 mm)

4.25 in. (114 mm) Stroke Output per cycle 9 cu. in. (148 cm³)

Cycles Wetted parts 26/gallon (7/liter) Steel, brass, copper, polyurethane, nitrile

Free flow 12.6 gallon/min. (47,7 liter/min.)



12:1 4.25 in. oil pump technical data

Pumping ratio 12:1

200 psi (14 bar) 2 400 psi (166 bar) Air pressure Maximum output pressure

1/2 NPTF Air inlet Material outlet 3/4 NPTF

Material inlet Stub 2 NPTF Airmotor bore diameter 4.25 in. (108 mm)

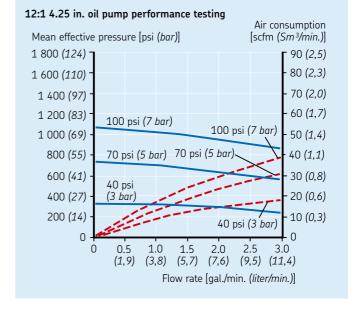
4.5 in. (114 mm) Output per cycle 9 cu. in. (148 cm³)

26/gallon (7/liter) Cycles Wetted parts

Steel, brass, copper, polyurethane,

nitrile

Free flow 12.6 gallon/min. (47,7 liter/min.)



50:1 4.25 in. grease pump technical data

Pumping ratio 50:1

Air pressure 150 psi (10 bar) Maximum output pressure 7 500 psi (517 bar)

1/2 NPTF Air inlet Material outlet 3/4 NPTF

4.25 in. (108 mm) Airmotor bore diameter Stroke 4.5 in. (114 mm)

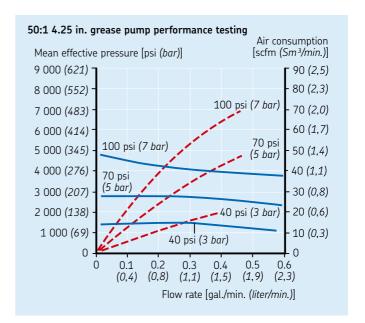
Output per cycle 2.3 cu. in. (38 cm³) 101/gallon (26/liter) Cycles

Wetted parts Steel, brass, copper, polyurethane,

nitrile

Free flow (70 cycles/min.) 0.7 gallon/min. (2,6 liter/min.)

PowerMaster II pumps include model 12018 3/4 NPTF (m) x 1/2 NPTF (F) in the outlet



75:1 4.25 in. grease pump technical data

75:1 Pumping ratio

100 psi (7 bar) 7 500 psi (517 bar) Air pressure Maximum output pressure

1/2 NPTF Air inlet Material outlet 3/4 NPTF

Stroke

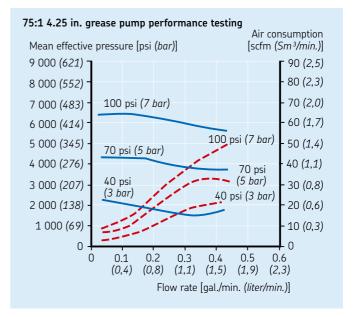
Airmotor bore diameter 4.25 in. (108 mm)

4.5 in. (114 mm) Output per cycle 1.6 cu. in. (26 cm3) Cycles 144/gallon (39/liter)

Wetted parts Steel, brass, copper, polyurethane,

Free flow 0.5 gallon/min. (1,8 liter/min.)

PowerMaster II pumps include model 12018 ³/₄ NPTF (m) x ¹/₂ NPTF (F) in the outlet





SKF 72

PowerMaster II air-operated oil pumps

Model 1901 12:1 55 gallon (208 liter) pump

Package includes:

- Powermaster II 4.25 in. air motor model 82730
- Powermaster II ball type pump tube 55 gallon (208 liter) model 82790
- Air coupler model 655008
- Air nipple model 653112

Model 1914 12:1 stub pump

Package includes:

- Powermaster II 4.25 in. air motor model 82730
- Powermaster II stub pump tube model 84335
- Air coupler model 655008
- Air nipple model 653112

Model 1952 6:1 55 gallon (208 liter) pump

Package includes:

- Powermaster II 3 in. air motor model 82895
- Powermaster II ball type pump tube 55 gallon (208 liter) model 82790
- Air coupler model 655008
- Air nipple model 653112

Model 1951 6:1 stub pump

Package includes:

- Powermaster II 3 in. air motor model 82895
- Powermaster II stub pump tube model 84335
- Air coupler model 655008
- Air nipple model 653112







Model 1914

PowerMaster II grease pumps

Model 1904 75:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster II 4.25 in. air motor model 82730
- PowerMaster II shovel type pump tube 400 lb. (181 kg) model 82793 *
- Air coupler model 655008
- Air nipple model 653112

Model 1908 75:1 120 lb. (54 kg) pump

Package includes:

 PowerMaster II 4.25 in. air motor model 82730

- PowerMaster II shovel type pump tube 120 lb. (54 kg) model 82883 *
- Air coupler model 655008
- Air nipple model 653112

Model 1910 50:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster II 4.25 in. air motor model 82730
- PowerMaster II shovel type pump tube 400 lb. (181 kg) model 83271*
- Air coupler model 655008
- Air nipple model 653112

*** ∆ WARNING**

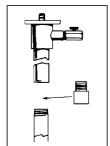
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PowerMaster II special pump

| Model | Air motor | Pump tube | Tube size | | Tube type | Ratio | Size NPT | Maxir air pr | num essure | Maxim pressu | | Free deliv | ery |
|--|--|--|---|--|--|---|--|--|---|--|--|--|---|
| _ | _ | _ | gal. | liter | _ | - | in. | psi | bar. | psi | bar | gal./min. | liter/min. |
| 1931 1940 1932 1933 1902 1935 1903 1907 | 82737 82737 82737 82737 82730 82737 82730 82730 | 82790 84335* 82791* 82792* 82791* 83665* 82792 82841* | 55 Stub 55 55 55 400 lb. 400 lb. 120 lb. | 208 - 208 208 208 181 kg 181 kg 54 kg | Ball Ball Shovel Shovel Shovel Shovel Shovel | 4:1 4:1 8:1 13:1 24:1 50:1 40:1 | 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4 | 200 200 200 200 200 150 200 200 | 14 14 14 14 14 14 10.34 14 | 800 800 1 600 2 600 4 800 7 500 8 000 8 000 | 56 56 112 182 331 517 560 560 | 2.7 2.7 1.5 0.8 1.5 2.7 0.8 0.8 | 10.3 10.3 5.7 3.2 5.7 10.3 3.2 3.2 |

 $^{{\}bf ^{*} \triangle WARNING}\ California\ Proposition\ 65: Cancer\ and\ reproductive\ harm.\ www.P65Warnings.ca.gov$

Model 16177



Model 83132 Mod

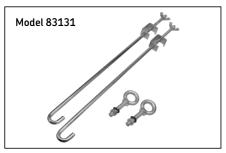


Model 84945











PowerMaster II and III pump accessories

Model 84826 wall mounting bracket kit

For PowerMaster II or III air motor assemblies.

Model 16177 foot valve adapter

For extending length of drum pumps with models 82790 and 82773 * PowerMaster II pump tubes or models 84984 and 84985 PowerMaster III pump tubes. Install when standard tubes will not reach bottom of tank for addition of 1 1 /2 in. NPTF (m) extension pipe (customer furnished).

Model 83132 bung bushing

Screws in bung opening of 400 lb. (181 kg) drums and custom-built tanks to secure any PowerMaster II and III pumps. Plated to resist rust. Threaded 2 in. NPT (m).

Model 1709 single post pump elevator

For description and specifications (→ page 90).

Model 84945 suction kit

For transfer of product from drums, bulk tanks or reservoirs. Includes bung bushing suction tube, hose and coupling assembly.

Note: 2×1 in. $(50.8 \times 25.4 \text{ mm})$ bell reducer required for use with model 1914, not included.

Model 82439 low-level cutoff

Automatically shuts off flow of oil; keeps supply lines primed. Recommended when dispensing oil through metering devices to conform with standards of the National Conference of Weights and Measures. Assembles to 1 ½ in. NPT standpipe which assembles to pump.

Thermal pressure protection

| Model | Description | Application | Pre-set relief pro | essure | Size NPT |
|------------------------------|---|--|-----------------------|-----------------|--------------------------|
| _ | _ | - | psi | bar | in. |
| 282876 282957 277601-1 | Valve only Valve only Kit with valve, hose, adapters | 3:1, 5:1, 6:1 3:1, 5:1, 6:1, 10:1, 12:1 PMV 5:1 and 6:1* | 1 000 1 500 900 | 68 103 62 | 1/2 1/2 Integrated |
| 277601-2 | Kit with valve, hose, adapters | PMV 10:1* | 1 500 | 103 | Integrated |

^{*} Adapt PMV kits to PowerMaster III stub pump tube (model 84986) with a 300 lb. (136 kg) malleable iron 2 x 1.5 in. (50,8 x 38,1 mm) reducing coupling.

Other accessories

Model 83732 standpipe adapter kit

Necessary to assemble PowerMaster II or III pumps to model 83727 stand pipe assembly for pumping from bulk tanks.

Model 83727 standpipe assembly

Mounts PowerMaster II or III pump on floor to accept suction line from bulk tank. Inlet 3 in. NPTF. 7 ½ in. (190 mm) height; 8 in. (203 mm) diameter.

Note: PowerMaster II and III requires model 83732 standpipe assembly adapter kit.

Model 83131 tie rod kit

For bung opening 400 lb. (181 kg) drums. Tie rods and eye-bolts 5/8 in. (15,88 mm) diameter steel plated to resist rust.

Mounting brackets

Model 84723 cover panel kit

Metal cover fits over tie rod ends and encloses moving plunger rod. Prohibits foreign matter from attaching to pump plunger and causing premature wear.

Model 66764 air exhaust muffler

³/₄ in. NPT (m) fits PowerMaster II air motor models 82895, 82730 and 82736 *. Two required for each air motor.

Pump hoists

Model 1709 single post elevator

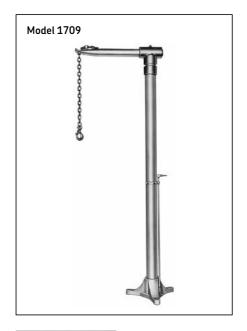
Ideal for contractor use. Can be mounted on truck body or used in maintenance shop for fast power-operated drum changing. Lifts any Lincoln pump from one 400 or 120 lb. (181 or 54 kg) drum and lowers it into another. Can serve one or a cluster of four drum pumps from one location.

Model 2716 single post primer

For use with PowerMaster III series 2000 pumps. Air-operated single post pump hoist for 55 gallon (208 liter) drums performs several functions in applications of low- to medium-viscosity materials. Facilitates drum changeovers. Includes follower and wiper which uses normal suction to help maintain pump prime. Includes mounting bracket for all PowerMaster III pumps.

Model 1716 pump hoist

For use with all PowerMaster II series 1900 pumps. Air-operated single post pump hoist for 55 gallon (208 liter) drums performs several functions in applications of low to medium-viscosity materials. Facilitates drum changeovers. Includes follower and wiper which uses normal suction to help maintain pump prime.



PowerMaster III pump hoist technical data

| Model | | 1709 | 2716 |
|-----------------------------------|--|---|---|
| Height Operating air p Beam | Lowered Raised ressure Length Rotation | 70.5 in. (1,8 m) 108.5 in. (2,8 m) 50 to 200 psi (3,45 to 13,8 bar) 19 in. (0.5 m) 360° | 73 in. (1,9 m) 110.5 in. (2,8 m) 40 to 200 psi (2,75 to 13,8 bar) 19 in. (0.5 m) 360° |
| Lift capacity | Notation | 400 lb. (181 kg) | 400 lb. (181 kg) |



Model 2716

PowerMaster II pump hoist technical data

 Model
 1716

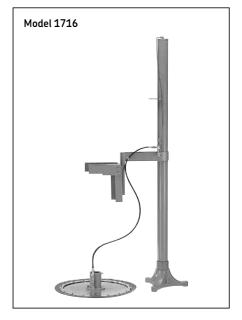
 Height
 Lowered
 73 in. (1,9 m)

Raised 110.5 in. (2,8 m)
Operating air pressure 40 to 200 psi (2,75 to 13,8 bar)

Beam Length 19 in. (0.5 m)

Rotation 360°

Lift capacity 400 lb. (181 kg)





Model 84192

Model 66060















Drum dollies

Model 84377 400 lb. (55 gal.) [181 kg (208 liter)] drum dolly

Use with any 400 lb. (181 kg) drum. 23 1 /4 in. ID, height 5 1 /4 in. (133,4 mm), hard rubber wheels: 1 in. (25,4 mm) wide, 2 1 /2 in. (63,5 mm) dia. Capacity: 650 lbs. (294 kg)

Model 84192 120 lb. (16 gal.) [54 kg (60 liter)] band dolly

Band-type dolly for use with 120 lb. (54 kg) refinery containers; caster model 66060.

Model 66060 caster for roll-a-round base units

Standard equipment on Lincoln drum and band dollies.

Model 80895 roll-a-round base

Use with 120 lb. (54 kg) refinery containers. Four ball-bearing swivel casters and screw clamps.

Model 674 hand truck

All steel, rugged construction with 6 in. (152,4 mm) diameter wheels. Finished in Lincoln red. 41 high x 15 in. wide (1 041 high x 381 mm wide). For use with 120 lb. (54 kg) or 16 gallon (60 liter) drum.

PowerMaster III only

Model 84963 flange mounting assembly

For rigid mounting of PowerMaster III pumps to the top of fabricated bulk tanks.

Model 86214* gland protection sleeves

For all ball foot design pump tubes.

Model 84722 muffler adapter kit

Replaces standard built-in muffler on series III air motors. Pipes exhaust away from pump. Converts exhaust port to 3/4 in. NPT (f) thread.

Drum covers

Model 81538

Standard 16 gallon (60 liter) drum cover for mounting PowerMaster II and III drum pumps to full open drums.

Model 81412

Standard 55 gallon (208 liter) drum cover for mounting PowerMaster II and III series drum pumps on full open drums.

Model 83166

Same as model 81412 except includes a port for installation of material agitator.

*▲ WARNING

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Follower plates

Recommended when pumping lubricants that will not seek their own level.

Model 84775

Deluxe universal follower for use with 25 to 50 lb. (11 to 22 kg) containers for 1, 1 1 /4, and 1 1 /2 in. diameter pump tubes. All rubber unit ensures complete grease dispensing to the bottom of dented or plastic lined drums; wipes pail or drum clean. Metal cap holds insert firmly in place, ensuring seal and maintaining vacuum.

Model 84780

Same as model 84775 except for use with 120 lb. (54 kg) containers for 1, 1 $^{1}/_{4}$, and 2 $^{1}/_{8}$ in. diameter pump tubes.

Model 83369

For 400 lb. (181 kg) drums. Diameter 21 5/8 in.

Model 81482 400 lb. (181 kg)

Includes mounting flange and tie rods for mounting any PowerMaster II pump. Includes model 84318 drum cover and model 84273 adapter flange.

Model 84768

Same as 81482 except for PowerMaster III pumps.

Model 84291 120 lb. (54 kg)

Same as model 81482, except for 120 lb. (54 kg) drums. Includes model 84299 drum cover and model 84273 adapter flange.

Model 84767

Same as 84291 except for PowerMaster III pumps.

Model 84273 flange mounting assembly

For rigidly mounting any PowerMaster II stub pump or drum pump to top of a fabricated bulk tank.

Model 84963

Same as 84273 except for PowerMaster III pumps.

Model 83119 tie rod assembly

Same as model 83131 except for 120 lb. (54 kg) drums.

Model 360248 drum locator

Positions and secures 400 lb. (181 kg) drums when truck is in motion. Two identical angles in a circular segment with an 11 1/2 in. radius. Holes provided for fastening angle to platform. Welding optional.

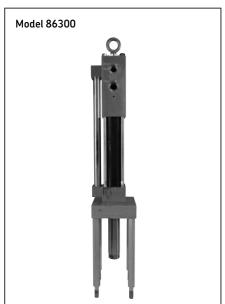












Hydraulic PowerMaster motor

Ideal for mining, heavy construction and ink applications

Rugged design with minimum moving parts, maximum reliability and durability in heavyduty applications

- Two motor sizes available
- Expands pumping capability to higher pressure and higher volume applications
- Internal logic provides smooth changeover for each stroke
- No need for external pressure or limit switches and solenoid valves
- Responds immediately to changes in grease volume and pressure demands
- Versatile designed to deliver effectively in transfer and automated lubrication
- Use with Lincoln's PowerMaster and PileDriver pump tube

Hydraulic PowerMaster motor technical data

| Model | 86400 | 86300 |
|--|--|--|
| Cylinder diameter Piston rod diameter Stroke length | 3 ½ in. (89 mm) 2 ½ in. (64 mm) 6 in. (152 mm) | 2 in. (51 mm) 1 ⁷ / ₁₆ in. (37 mm) 6 in. (152 mm) |
| Operating pressure range* Operating temperature range Fluid consumption rate | 300 to 1 500 psi (21 to 103 bar) -30 to +200 °F (-34 to +93 °C) 57.7 cu. in./cycle or 1 gal./4 cycles (945,5 cm³/cycle or 3,8 liter/4 cycles) | 300 to 1 500 psi (21 to 103 bar) -30 to +200 °F (-34 to +93 °C) 18.8 cu. in./cycle or 1 gal./12 cycles (308 cm³/cycle or 3,8 liter/12 cycles) |
| Hydraulic fluid inlet Hydraulic fluid outlet Max. recommended speed (continuous) | SAE 10 (female) SAE 12 (female) 55 cycles/min. | SAE 8 (female) SAE 10 (female) 75 cycles/min. |
| Wetted part materials | Steel, bronze, polyurethane, nitrile | Steel, bronze, polyurethane, nitrile |

* Refer to tables on pg. 98 for maximum operating pressure with specific pump tubes.

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PowerMaster III models with model 86400 motor

| Pump tube model | Ratio | Drum | size | Maximur pressure | m delivery | Maximu inlet pre | m hydraulic ssure |
|-------------------------|-------------------|------------------|-------------------|-------------------------|-------------------|-------------------------|----------------------|
| _ | _ | gal. | liter | psi | bar | psi | bar |
| 84984 84985 84986 | 4:1 4:1 4:1 | 16 55 Stub | 60 208 Stub | 4 000 4 000 4 000 | 276 276 276 | 1 000 1 000 1 000 | 69 69 69 |

PowerMaster III models with model 86300 motor

| Pump tube model | Ratio | Drum size | | Maximum delivery pressure | | Maximum hydraulic inlet pressure | |
|-------------------------|-------------------------|------------------|-------------------|---------------------------|-------------------|----------------------------------|-------------------|
| _ | _ | gal. | liter | psi | bar | psi | bar |
| 84984 84985 84986 | 1.5:1 1.5:1 1.5:1 | 16 55 Stub | 60 208 Stub | 2 250 2 250 2 250 | 155 155 155 | 1 500 1 500 1 500 | 103 103 103 |

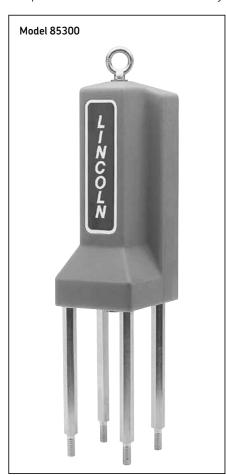


PileDriver III models with model 86400 motor

| Pump tube model | Ratio | Drum s | size | Maximum pressure | delivery | Maximum inlet pres | n hydraulic sure |
|--------------------|-------|--------|-------|---------------------|----------|-----------------------|---------------------|
| _ | _ | gal. | liter | psi | bar | psi | bar |
| 85922 | 1.2:1 | Stub | Stub | 1 800 | 124 | 1 500 | 103 |

PileDriver III models with model 86300 motor

| Pump tube model | Ratio | Drum | Drum size | | Maximum delivery pressure | | Maximum hydraulic inlet pressure | |
|--------------------|-------|------|-----------|-----|---------------------------|-------|----------------------------------|--|
| _ | _ | gal. | liter | psi | bar | psi | bar | |
| 85922 | 0.4:1 | Stub | Stub | 600 | 41 | 1 500 | 103 | |



Hydraulic motor for PowerMaster III pump tubes

- · Designed for oil, ATF and gear oil
- Safe to use where electric or pneumatic motors may be hazardous.
- Virtually eliminate concerns about air supply condition and exhaust emissions.
- Efficiently generates high material pressure and flow rate with minimum hydraulic power consumption.
- Few internal moving parts. No mechanical linkages or solenoids to fail or wear
- An internal changeover circuit requires no external signal for reciprocating action.
- Balanced cylinder design eliminates need for separate stroke adjustments.
- All key components are machined from steel or aluminum to insure long service life in the toughest applications.
- Hydro-PowerMaster was designed and is manufactured under the strict conditions of an ISO 9001 registered quality system.

Hydro-PowerMaster technical data

Wetted parts materials

| Model | 85300 |
|---------------------------------------|------------------------------------|
| Cylinder diameter | 2 in. (5 cm) |
| Piston rod diameter | 1 ³ /s in. (3,5 cm) |
| Stroke length | 6 in. (15 cm) |
| Hydraulic fluid inlet (F) | SAE 8 |
| Hydraulic fluid outlet (F) | SAE 10 |
| Operating pressure range | 300 to 1 500 psi (20,4 to 103 bar) |
| Operating temperature range | –30 to +200 °F (–34 to +93 °C) |
| Fluid flow consumption rate per cycle | 18.8 cu. in. (308,1 cm³) |
| Recommended continuous speed | 75 cycles/minute |

PowerMaster III special pump

| Motor | Pump tube | Ratio | Drum | size | Size NPT (f) | Maximu pressure | m hydraulic | Maximu pressure | | Free | delivery |
|-------------------------|-------------------------|-------------------------|------------------|----------------|---|-------------------------|-------------------|-------------------------|-------------------|-------------------|----------------------|
| | - | _ | gal. | liter | in. | psi | bar | psi | bar | gal. | liter |
| 85300 85300 85300 | 84985 84984 84986 | 1.5:1 1.5:1 1.5:1 | 55 16 stub | 208 60 - | 3/ ₄ 3/ ₄ 3/ ₄ | 1 500 1 500 1 500 | 103 103 103 | 2 250 2 250 2 250 | 155 155 155 | 3.9 3.9 3.9 | 14,6 14,6 14,6 |

Must order hydraulic motor and pump tube separately. CAUTION: Do not exceed maximum hydraulic inlet pressure listed for each motor/pump tube combination.



SKF 80

Steel, aluminum, bronze, nitrile, PTFE, polyurethane

Hydraulic PowerMaster motor

Ideal for mining, heavy construction and portable lubrication trucks

Rugged design with minimum moving parts, maximum reliability and durability in heavy-duty applications

- Two motor sizes available
- Expands pumping capability to higher pressure and higher volume applications
- Internal logic provides smooth changeover for each stroke
- No need for external pressure or limit switches and solenoid valves
- Responds immediately to changes in grease volume and pressure demands
- Versatile designed to deliver effectively in transfer and automated lubrication
- Use with Lincoln's PowerMaster and PileDriver pump tube

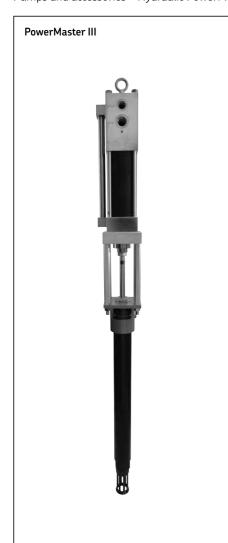




Hydraulic PowerMaster motor technical data

86300 Model 86400 3 ½ in. (89 mm) 2 ½ in. (64 mm) Cylinder diameter 2 in. (51 mm) Piston rod diameter 1 ⁷/₁₆ in. (37 mm) Stroke length 6 in. (152 mm) 6 in. (152 mm) Operating pressure range* 300 to 1 500 psi (21 to 103 bar) 300 to 1 500 psi (21 to 103 bar) -30 to +200 °F (-34 to +93 °C) 57.7 cu. in./cycle or 1 gal./4 cycles -30 to +200 °F (-34 to +93 °C) 18.8 cu. in./cycle or 1 gal./12 cycles Operating temperature range Fluid consumption rate (945,5 cm³/cycle or 3.8 liter/4 cycles) (308 cm³/cycle or 3.8 liter/12 cycles) Hydraulic fluid inlet SAE 10 (female) SAE 8 (female) SAE 12 (female) SAE 10 (female) Hydraulic fluid outlet 75 cycles/min. Max. recommended speed (continuous) 75 cycles/min. Wetted part materials Steel, bronze, polyurethane, nitrile Steel, bronze, polyurethane, nitrile

* Refer to tables on pg. 101 for maximum operating pressure with specific pump tubes.



PowerMaster III models with model 86400 motor

| Pump tube model | Ratio | Drum size | | Maximui pressure | m delivery | Maximum hydraulic inlet pressure | | |
|--------------------|-------|-----------|-------|---------------------|------------|----------------------------------|-----|--|
| _ | - | gal. | liter | psi | bar | psi | bar | |
| 84991 | 8:1 | 55 | 208 | 7 200 | 496 | 900 | 62 | |
| 84992 | 8:1 | 16 | 60 | 7 200 | 496 | 900 | 62 | |
| 84993 | 14:1 | 55 | 208 | 7 000 | 483 | 500 | 35 | |
| 84994 | 14:1 | 16 | 60 | 7 000 | 483 | 500 | 35 | |
| 84995 | 17:1 | 55 | 208 | 7 650 | 527 | 450 | 31 | |
| 84996 | 17:1 | 16 | 60 | 7 650 | 527 | 450 | 31 | |
| 84997* | 23:1 | 55 | 208 | 6 900 | 476 | 300 | 21 | |
| 84998* | 23:1 | 16 | 60 | 6 900 | 476 | 300 | 21 | |

 $^{{\}bf *\triangle WARNING}\ California\ Proposition\ 65: Cancer\ and\ reproductive\ harm.\ www.P65Warnings.ca.gov$

PowerMaster III models with model 86300 motor

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| Pump tube model | Ratio | Drum | size | Maximur pressure | m delivery | Maximum hydraulic inlet pressure | | |
|--|--|--|--|--|--|--|--|--|
| _ | _, | gal. | liter | psi | bar | psi | bar | |
| 84991 84992 84993 84994 84995 84996 84997* 84998* | 2.7:1 2.7:1 4.5:1 4.5:1 5.5:1 5.5:1 8:1 8:1 | 55 16 55 16 55 16 55 16 | 208 60 208 60 208 60 208 60 | 4 000 4 000 6 750 6 750 7 500 7 500 7 200 7 200 | 276 276 465 465 517 517 496 496 | 1 500 1 500 1 500 1 500 1 300 1 300 900 900 | 103 103 103 103 90 90 62 62 | |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



SKF

Hydraulic motor for PowerMaster III pump tubes

· Designed for grease

- Safe to use where electric or pneumatic motors may be hazardous.
- Virtually eliminate concerns about air supply condition and exhaust emissions.
- Efficiently generates high material pressure and flow rate with minimum hydraulic power consumption.
- Few internal moving parts. No mechanical linkages or solenoids to fail or wear
- An internal changeover circuit requires no external signal for reciprocating action.

- Balanced cylinder design eliminates need for separate stroke adjustments.
- All key components are machined from steel or aluminum to insure long service life in the toughest applications.
- Hydro-PowerMaster was designed and is manufactured under the strict conditions of an ISO 9001 registered quality system.



Hydro-PowerMaster technical data

Model 85300 Cylinder diameter 2 in. (5 cm) 1 3/8 in. (3,5 cm) Piston rod diameter Stroke length 6 in. (15 cm)

Hydraulic fluid inlet (F) SAE 8 Hydraulic fluid outlet (F) SAE 10

300 to 1 500 psi (20,4 to 103 bar) Operating pressure range

Operating temperature range Fluid flow consumption rate per cycle Recommended continuous speed

-30 to +200 °F (-34 to +93 °C) 18.8 cu. in. (308,1 cm³) 75 cycles/minute

Wetted parts materials Steel, aluminum, bronze, nitrile, PTFE, polyurethane

PowerMaster III hydraulic-powered pumps

| Motor | Pump tube | Ratio – | Drum | n size | Size NPT (f) | Maximu pressure | m hydraulic | Maximu pressure | | Free deliv | ery |
|-------|--------------|------------|------|--------|------------------------|--------------------|-------------|--------------------|-----|------------|-----------|
| _ | _ | | gal. | liter | in. | psi | bar | psi | bar | gal./min. | liter/min |
| 85300 | 84991 | 3:1 | 55 | 208,2 | 3/ ₄ | 1 500 | 103 | 4 500 | 310 | 2.0 | 7,5 |
| 85300 | 84992 | 3:1 | 16 | 60,57 | 3/ ₄ | 1 500 | 103 | 4 500 | 310 | 2.0 | 7,5 |
| 35300 | 84993 | 4.5:1 | 55 | 208,2 | 3/ ₄ | 1 500 | 103 | 6 750 | 466 | 1.2 | 4,5 |
| 35300 | 84994 | 4.5:1 | 16 | 60,57 | 3/ ₄ | 1 500 | 103 | 6 750 | 466 | 1.2 | 4,5 |
| 85300 | 84995 | 5:1 | 55 | 208,2 | 3/ ₄ | 1 500 | 103 | 7 500 | 517 | 1.0 | 3,7 |
| 85300 | 84996 | 5:1 | 16 | 60,57 | 3/ ₄ | 1 500 | 103 | 7 500 | 517 | 1.0 | 3,7 |
| 85300 | 84997 | 7:1 | 55 | 208,2 | 3/ ₄ | 1 000 | 69 | 7 000 | 483 | 0.7 | 2,6 |
| 85300 | 84998 | 7:1 | 16 | 60,57 | 3/ ₄ | 1 000 | 69 | 7 000 | 483 | 0.7 | 2,6 |

Must order hydraulic motor and pump tube separately.
CAUTION: Do not exceed maximum hydraulic inlet pressure listed for each motor/pump tube combination.

Model 85630

Model 85628

Model 85622



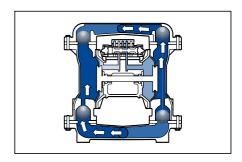
1/4 to 2 in. air-operated diaphragm pumps

Basic design features

Diaphragm pumps are driven by compressed air. The directional air distribution valve and pilot valve – the "air end" – are located in the center section of the pump. Liquid moves through two manifolds and outer chambers of the pump, the "wet end". Generally, check valves are located at the top and bottom of each outer chamber or on a common manifold. The two outer chambers are connected by suction and discharge manifolds. Lincoln's double diaphragm self-priming design offers many advantages over other pumps.

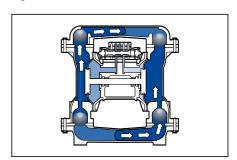
- Pump abrasive and sheer-sensitive materials.
 - Low interval velocities move abrasives easily with no damage. Gentle pumping action does not sheer fragile materials.
- Pumps viscous materials.
 - Even heavy or solids-laden materials can be pumped.
- Environmentally friendly.
 - No motors, seals or packing to leak.
- Self-priming.
 - Able to dry prime under most suction lift or flooded suction conditions.
- Variable flow.
 - Regulate the inlet air supply to adjust flow.
- Runs dry without damage.
- Deadheads against closed discharge.
 - Excessive back pressure stops operation without damage until discharge opens. Eliminates bypass systems or relief valves.
- Explosion-proof.
 - Eliminates sparking concerns of other electrical or rotating pumps.

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Right chamber – discharge Left chamber –suction

Left chamber – discharge Right chamber –suction



WARNING!

The pump exhaust should be piped to an area for safe disposal of product being pumped in the event of a diaphragm failure.



5KF

1:1 air-operated diaphragm pump line

| Model | Description | Pump body | Wetted or soft parts | Size inlet NPT | outlet NPT | Free deliver | у | Air inlet NPT (f) | Maxin pressi | | Elen part size | nent icle | Application |
|-------|-------------------------------|--------------|----------------------|----------------------|----------------------|-----------------|--------------|-------------------------|-----------------|------|----------------------|--------------|---|
| _ | in. | _ | _ | in. | in. | gal. | liter | in. | psi | bar | in. | mm | _ |
| 85630 | 1/4 | Polyprop | PTFE | 1/4 | 1/4 | 4 | 15,1 | 1/4 | 100 | 6,89 | 1/32 | 0,79 | New oil, AF, windshield washer fluid |
| 85631 | 1/ ₂ | Aluminum | Buna-N | 1/ ₂ | 1/ ₂ | 15 | 56,8 | 1/ ₄ | 100 | 6,89 | 1/ ₈ | 3,17 | New/used oil, AF |
| 85632 | 1/ ₂ | Aluminum | PTFE | 1/ ₂ | 1/ ₂ | 15 | 56,8 | 1/ ₄ | 100 | 6,89 | 1/ ₈ | 3,17 | New oil, AF |
| 85633 | 1/ ₂ | Aluminum | Hytrel | 1/ ₂ | 1/ ₂ | 15 | 56,8 | 1/ ₄ | 100 | 6,89 | 1/8 | 3,17 | New oil |
| 85622 | 1/ ₂ | Polyprop | Santoprene | 1/ ₂ | 1/ ₂ 1) | 14 | 53 | 1/ ₄ | 100 | 6,89 | 1/8 | 3,17 | High abrasion materials |
| 85623 | 1/ ₂ | Polyprop | PTFE | 1/ ₂ | 1/ ₂ 1) | 14 | 53 | 1/ ₄ | 100 | 6,89 | 1/8 | 3,17 | New oil, AF |
| 85626 | 1/2 | Polyprop | Buna-N | 1/ ₂ | 1/2 1) | 14 | 53 | 1/ ₄ | 100 | 6,89 | 1/ ₈ | 3,17 | New oil, AF |
| 85629 | 1 | Aluminum | Hytrel | 1 | 1 | 45 | 170,3 | 1/ ₂ | 125 | 8,6 | 1/ ₄ | 6,35 | New oil |
| 85628 | 1 | Aluminum | PTFE | 1 | 1 | 45 | 170,3 | 1/ ₂ | 125 | 8,6 | 1/ ₄ | 6,35 | New oil, AF |
| 85627 | 1 | Aluminum | Buna-N | 1 | 1 | 45 | 170,3 | 3/4 | 125 | 8,6 | 1/ ₄ | 6,35 | New/used oil, AF |
| 85621 | 1 ¹ / ₂ | Aluminum | Buna-N | 1 ½ | 1 ½ | 106 | 401,3 | | 125 | 8,6 | 1/ ₄ | 6,35 | New/used oil, AF |
| 85624 | 2 | Aluminum | Buna-N | 2 | 2 | 150 | 567,8 | | 125 | 8,6 | 1/ ₄ | 6,35 | New/used oil, AF |

¹⁾ Can be converted to dual 1/2 in. outlet.

U.L. listed

| Model | Description | Pump body | Wetted or soft parts | Size inlet NPT | outlet NPT | Free deliv | | Air inlet NPT (f) | Maxin pressi | | Eler part size | | Application |
|----------------|------------------|----------------------|----------------------|----------------------|----------------------|---------------|----------------|------------------------------------|--------------------------------------|--------------|------------------------------------|--------------|--|
| | in. | _ | _ | in. | in. | gal. | liter | in. | psi | bar | in. | mm | _ |
| 85634 85635 | 1 U.L. 1 U.L. | Aluminum Aluminum | Buna-N PTFE | 1 | 1 1 | 45 45 | 170,3 170,3 | 1/ ₂ 1/ ₂ | 50 ²⁾ 50 ²⁾ | 3,45 3,45 | 1/ ₄ 1/ ₄ | 6,35 6,35 | Used oil, diesel, kerosene Unleaded gas, diesel, kerosene used oil |

²⁾ 50 psi (3,45 bar) flammable liquids, 125 psi (8,6 bar) others

Dual inlet

| Model | Description | Pump body | Wetted or soft parts | Size inlet NPT | outlet NPT | Free deliv | | Air inlet NPT (f) | Maxin pressi | | Eler part size | nent iicle | Application |
|----------------------------------|-------------------------------------|--|--------------------------------------|------------------------------------|--|----------------------|----------------------------|---|--------------------------|----------------------------|---|------------------------------|--|
| | in. | _ | - | in. | in. | gal. | liter | in. | psi | bar | in. | mm | - |
| 85636 85637 85639 85638 | 1/ ₂ 1/ ₂ 1 1 | Aluminum Polyprop Polyprop Aluminum | Buna-N Buna-N Buna-N Buna-N | 1/2 1/2 1 ANSI ³⁾ | 1/ ₂ 1/ ₂ - 1 | 15 14 45 42 | 56,8 53 170,3 159 | 1/ ₄ 1/ ₄ 1/ ₂ 1/ ₂ | 125 100 100 125 | 8,6 6,89 6,89 8,6 | 1/ ₈ 1/ ₈ 1/ ₄ 1/ ₄ | 3,17 3,17 6,35 6,35 | AF/water AF/water AF/water AF/water |

³⁾ Model 85639 requires model 275631 adapter and model 275632 seal kit for pipe thread installations.



Model 84817

Model 240994



AODD pump accessories

Wall mount brackets

Model 85255 wall mount bracket

Wall mount bracket for 1/4 to 1/2 in. air-operated diaphragm pumps.

Model 84817 wall mount bracket

Wall mount bracket for 1/2 to 2 in. air-operated diaphragm pumps.

Other accessories

Model 240994 drum adapter kit

For use with 1/2 in. polypropylene AODD pumps. Includes 2 in. NPT (f) bung bushing, 1 x 36 in. (25,4 x 914,4 mm) suction tube and adapter.

Model 275631 1 in. ANSI flange to 1 in. NPT adapter

Adapts 1 in. ANSI flange of model 85639 polypropylene dual inlet pump to 1 in. NPT (f). PVC for low pressure installations. Three required to convert all pump inlets/outlets.

Model 275632 ANSI bolt kit with seal

Attaches adapter to model 85639 pump. One bolt kit required for each adapter. Three required to convert all pump inlets/outlets.

Thermal pressure protection

Protect lubrication system components from high pressure spikes caused by temperature change in a closed fluid network.

Thermal pressure protection

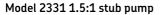
| Model Description | | Application | Pre-se relief p | t ressure | Size NPT | |
|-------------------|---|--|--------------------|--------------|--------------------|--|
| _ | _ | _ | psi | bar | in. | |
| 282902 | Valve only | AODD pumps | 150 | 10 | 1/2 | |
| 277601-4 | Kit with valve, | ¹ / ₂ in. AODD pumps | 150 | 10 | Integrated | |
| 277601-5 | hose, adapters Kit with valve, hose, adapters | ¹ / ₂ in. AODD pumps | 150 | 10 | Integrated | |



High-volume stub-mounted transfer pump

Lincoln raises the bar for stub-mounted transfer pumps with the model 85922 high-volume pump tube. In combination with PowerMaster air motors, this pump tube offers a wide range of options to provide needed volume and pressure for high-out-put transfer and multi-reel dispense systems.

- Large ports reduce resistance for improved flows in real world applications.
- 6 in. (152 mm) stroke lets the pump work easier to deliver the same or more volume.
- Proven PileDriver III pump tube and PowerMaster III air motor based design is durable, dependable and easy to maintain over the life of the pump.
- 2.5 in. NPTF (f) and 3 in. NPTF (m) inlet offers flexible mounting options.



Package includes:

- Powermaster III 3 in. air motor model 84803
- PileDriver III stub pump tube model 85922
- Air coupler model 655008
- Air nipple model 653112

Model 2332 3:1 stub pump

Package includes:

- Powermaster III 4.25 in. air motor model 84804
- PileDriver III stub pump tube model 85922
- Air coupler model 655008
- Air nipple model 653112

Model 2333 7:1 stub pump

Package includes:

- Powermaster III 6 in. air motor model 84806
- PileDriver III stub pump tube model 85922
- Air coupler model 655012
- Air nipple model 653112





1:1 air-operated piston transfer pumps

Model 384829

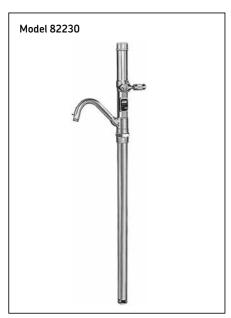
1:1 ratio fluid transfer pump designed for quick, reliable and economical transfer from all types of standard containers. This high-volume pump is suitable for use with 16 gal. (60,5 l) and 55 gal. (208 l) drums and bulk storage tanks. Includes a 33 ½ in. (85 cm) plastic extension tube that can be cut to fit the specific tank or drum depth. Positive-displacement pump starts automatically when the dispense valve is opened and shuts off automatically when the valve is closed. Features a universal suction tube and is capable of use with installed piping, hose and spigot valves, as well as suitable for installation on mobile lube carts.

Model 82230

Transfer pump quickly transfers fluids directly from 55 gal. (208 liter) drums. 2 in. (50,8 mm) bung bushing adjusts to varied drum lengths. Designed to stall against lubricant pressure. Use built in air control valve to adjust fluid output flow. Empties a 55 gal. (208 liter) drum in less than three minutes and has adjustable air flow lever.

Model 82715 PTFE kit

For use with model 82230, to allow compatibility with additional products.



1:1 piston transfer pumps

| Model | Description | Pump body | Wetted or soft parts | Size inlet NPT | outlet NPT | Free deliv per n | | Air inlet NPT (f) | Maxi pres | mum sure | Typical automotive use |
|--------|--------------------------------|-----------------|----------------------|---|----------------------|------------------------|-------|-------------------------|--------------|-------------|---|
| _ | - | _ | | in. | in. | gal. | liter | in. | psi | bar | _ |
| 384829 | Carbon steel | Metal | Flouroelastomer | - | 1 | 14 | 53 | 1/4 | 200 | 14 | Universal/motor and gear oil, ATF, hydraulic |
| 82230 | 55 gal. (208 liter) drum | Aluminum, steel | Buna-N | ³ / ₄ -11 ¹ / ₂ A.N. | - | 20 | 75 | 1/4 | 150 | 10,3 | fluid transfer 55 gal. (208 liter) drum/ new oil transfer |

Maximum diameter of suspended solids: Not applicable



Multi-fluid (DEF compatible) transfer pumps

Model 1390 lift-action transfer pump

Transfers DEF and many other fluids from larger fluid drums to convenient containers or directly into equipment and vehicle reservoirs.

Self-priming pump is ready to use right out of the package – place the pump in a barrel or drum using the attached bung adapter, lift the lever and fluid is dispensed.

Recommended for use in automotive, trucking, agriculture and construction applications.

Model 1390 manual barrel pump

- DEF (diesel exhaust fluid) compatible
- Transfers popular shop fluids including acetone, antifreeze, windshield washer, thinners, and much more
- Includes NPT and buttress threads for steel and plastic drums
- Adjustable bung type fits 15-, 16-, 30and 55-gallon drums
- Welded ground-post for safe dispensing of volatile fluids
- Premium-grade 316 stainless steel
- Easy fluid control; no splashing
- Self-priming
- Meets CA Proposition 65 and EU REACH standards

Model 1392 lever-action transfer pump

DEF-compatible pump featuring polypropylene construction. The telescoping pickup tube makes it suitable for a wide range of tank depths. Unique locking ring enables you to optimize nozzle placement to minimize pump load and simplify operation.

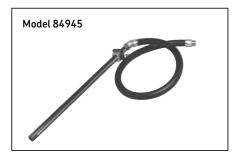
Pump package includes a premium non-kink, six-foot hose with 3/4 in. outlet nozzle that fits all standard DEF reservoirs, 45-degree nozzle and a threaded 2-inch bung that mounts securely to bulk DEF tanks.

Model 1392 lever-action DEF transfer pump

- DEF (diesel exhaust fluid) compatible
- Locking ring enables optimal pump positioning
- Nozzle hanger keeps hose within reach and off the floor
- Designed for automotive, trucking, agriculture and construction applications
- Transfers bulk fluid to smaller DEF containers or directly into vehicle reservoirs
- Self-priming pump unit











Transfer pump accessories

Suction kits

Model 84945 suction kit

For transfer of product from drums, bulk tanks or reservoirs. Includes bung bushing suction tube, hose and coupling assembly.

Note: 2 x 1 in. (50,8 x 25,4 mm) bell reducer required for use with model 1914, not included.

Model 85256

Same as model 84945 except for use with ¹/₄ in. AODD pump.

Used-fluid overfill warning valves

Float rises with used fluid to activate "whistle" warning at prescribed level.

Model 84815 single wall

For single wall tanks and drums in used fluid systems and above ground tanks.

Model 84824 double wall

Same as model 84815 except for double walled tanks and above ground tanks.

4-way valve

Model 84816

Four port, two position valve used in waste fluid systems. Enables one pump to pump into and out of drum or tank. 1 in. NTP female threads inlet/outlet.

90

LINCOLN

Bulk oil systems

3:1 and 5:1 ratio pump packages

Lincoln pump 3:1 and 5:1 ratio packages include model 600003 regulator, model 600401 gauge, model 815 coupler and model 11659 nipple. Control valve, inline meter or handheld metering control valve must be ordered separately (except model 4283).

Model 4283* 5:1 with 50 ft. (15,24 m) reel and meter

Deluxe assembly includes:

- Model 84934 5:1 ratio pump with bung bushing, universal suction tube with foot valve to fit any size container up to 275 gallons (1 041 liter)
- 1/2 in. x 50 ft. (12,7 mm x 15,24 m) oil hose reel Alemite model 8078-D with 2 ft. (0,6 m) connecting hose
- Model 967 electronic meter totalizes in liters and gallons with quart, gallon or pint readout.

Note: Pipe, fittings and hardware for installation of overhead reel assembly supplied by others.

Model 4493* value series pump, reel and meter package

- Configured for above-ground tank installations.
- For use with natural and synthetic oils, automatic transmission fluid, gear oil, antifreeze or hydraulic oil throughout the shop.
- Fast, reliable dispensing with model 4491 6 gallon/min. (22 liter/min.) free delivery pump.
- Easy handling, dependable service with the Alemite model 8078 series hose reel's heavy-gauge steel base, brass bushings and extra-wide hose guide.
- Accurate and easy dispensing with model 980 electronic oval gear meter with flexible extension.
- Package includes:
 - Model 4491 3.5:1 pump
 - Alemite model 8078-C reel with
 1/2 in. x 30 ft. (12,7 mm x 9,15 m) hose and ball stop
 - Model 980 electronic meter (measures in quarts)
 - Air line regulator and gauge
 - Air coupler and nipple
 - 2 ft. (0,6 m) fluid connecting hose from pump to reel and adapter union





System for mounting pump and reet on tank

*** ∆ WARNING**

California Proposition 65: Cancer and reproductive harm www.P65Warnings.ca.gov





3:1 Ratio • Corrosive Fluids

Series 20 pumps 3:1 pressure ratio

Model 84145-9 stainless steel

For pumping synthetic hydraulic oil, antifreeze or corrosive products. Pump may be coupled to stand pipe, mounted with bracket and suction kit or pump tube extension may be added for bung mounting to bulk tank, 2.5 gallon/min. (9 liter/min.) free delivery. Pump tube constructed of 316 stainless steel and features PTFE packings, air inlet 1/4 in. NPT (f), material outlet 1/2 in. NPT (f) comes with air coupler and plug and model 84147-9 product check assembly.

Model 84080-9 stainless steel

Recommended for use with antifreeze, solvents and windshield washer solution. 316 series stainless steel construction and PTFE packings assures long life. 3:1 ratio pump for transfer of corrosive or toxic fluids. Mounts on 55-gallon (208 liter) bung opening drums. Delivers 2.5 gallon/min. (9 liter/min.). Lasts longer than carbon steel models in corrosive service. Maximum air pressure 125 psi (8,6 bar).

WARNING!

For safe and proper use, always consult instructions accompanying product. See *Safety Warning Information* for appropriate warnings.



92 **5KF**

Pumps designed for value

Features

- · For pumping oil, ATF and gear oil
- Proven horizontal, valved-piston motor design for simplicity and reliability
- Provides quick dispense, fill or transfer with high-volume output
- Built-in muffler for quiet operation
- Cost-effective solution for oil distributors who need to supply pumps for customers who purchase bulk oil in tanks or drums
- Available as stub pump, 16 or 55 gallon (60 or 208 liter) pump or 50 to 275 gallon (946 to 1 041 liter) tank pump
- Motor's single-stroke action delivers cost effective, high performance and high flow
- Provides quick dispense and fill of ATF, oil, gear lubrication and other fluid lubricants with the speed of many higher-priced pumps
- Ideal for use with one or two overhead reels in applications such as medium-tolight vehicle service facilities, car dealerships, small contractors, farmers and agriculture equipment dealers



Value series transfer pumps technical data

Pump ratio

5.6 in.3 (91 cm 3) Output per stroke

6 gallons/min. (22 liter/min.) Delivery output

Pneumatic inlet pressure Max. Min.

120 psi (8,3 bar) 20 psig (1,4 bar) 30 to 120 °F (-1 to +49 °C) Operating temperature range 14 lbs. (6 kg)

Weight (empty)

1/4 in.-18 NPTF

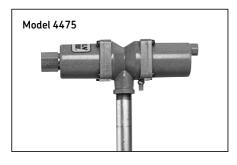
Pneumatic port inlet Material port outlet

Recommended fluids Motor oils, transmission fluid, petroleum-based fluids

Pump models

| Model | Application | | Mounting | Size | |
|--------------|-------------------------------------|--|--|------------|----------------|
| _ | gal. | liter | in. | in. | mm |
| 4490 4491 | 16 to 55 250 to 275 oval tank | 60 to 208 946 to 1 041 oval tank | 2 NPT male bung adapter 2 NPT male bung adapter | 36.5 47 | 927,1 1 194 |
| 4492 | stub | ovac carm | 1.5 NPT male | - | _ |

LINCOLN **SKF** 93





Low-volume transfer pumps for oil, ATF and gear lubricants

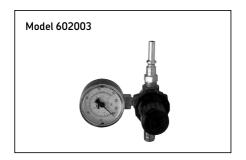
Model 4475 series 1:1 pump

The model 4475 pump is a reciprocatingpiston, low-pressure single-action pump. Air powers the pump's piston on the dispensing, or working, stroke. An internal spring returns the piston and resets it for the working stroke. It pumps continuously when the dispensing (fluid outlet) valve is open and 20 to 120 psi (1,4 to 8,3 bar) air is supplied to the pump.

1:1 value series pumps

| Model | Description | Size | Tube | e size | Inlet pressure | | Outp stro | out per | Free deliv | ery/ | | |
|-------|-------------|------------------------------------|------|--------|----------------|-----|--------------|---------|------------------|-----------------|-----------|------------|
| | | | | | Max. | | Min. | _ | Stroi | ĸe | | |
| | _ | in. | in. | cm | psi | bar | psi | bar | in. ³ | cm ³ | gal./min. | liter/min. |
| 4475* | Bare pump | ¹/₂ NPTF | 34 | 86 | 120 | 8,3 | 20 | 1,4 | 2.9 | 48 | Up to 4 | Up to 15 |
| 4480* | Spigot pump | Spigot extension with on/off valve | 34 | 86 | 120 | 8,3 | 20 | 1,4 | 2.9 | 48 | Upt to 4 | Up to 15 |

* Bung bushing models 261102, 261103, 261104
Ratio is approximately 0.7:1 to 0.8:1 depending on inlet air pressure
Operation is pneumatic pressure delivery stroke with spring return stroke. Attachment is 2 in. bung, adjustable for 55 and 16 gal. (208,2 and 60,57 liter) drums, bench and portable tank.



Recommended accessories

| Model | Description |
|------------------------|--|
| 815 11659 602003 | 1/4 in. NPT (f) air coupler 1/4 in. NPT (m) air nipple 1/4 in. miniature air regulator |
| 247843* 10462 | Air line pressure gauge 1/4 in. pipe nipple for regulator attachment |

Note: Air line controls are a must for safe and effective pump operation



^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Heavy-duty, air-operated grease pumps

Model 9989* 50:1 25, 50 lb. (11, 22 kg) portable pump with pail cover

Package includes:

- Bare pump model V350035000
 - Drum cover model 275370
 - Flexible follower model 84775
 - Air coupler/nipple model 5874/5875
 - 7 ft. (2,13 m) grease hose model 75084
 - Straight swivel model 82399
 - Universal swivel model 81387
 - Control valve model 740

Model 9917 50:1 120 lb. (54 kg) portable with caster base

Package includes:

- Bare pump model V350120000
 - Drum cover model 46007
 - Flexible follower model 84780
 - Air coupler/nipple model 5874/5875
 - 7 ft. (2,13 m) grease hose model 75084
 - Straight swivel model 82399
 - Universal swivel model 81387
 - Control valve model 740
 - Caster base 80895

Model 9917-57 50:1 120 lb. (54 kg) portable without caster base model 80895

Air-operated grease pumps for 120 lb. (54 kg) drums

The following models contain Lincoln's high-pressure series 20 grease pumps.

Model 917 120 lb. (54 kg) drum

Will dispense 45 oz. (1,3 kg) or 80 cu. in. $(1\ 311\ cm^3)$ of NLGI 0 – 2 grease per

minute at 150 psi (10 bar). Assures positive prime at lowest temperature. Drum cover model 46007 finished in Lincoln red; roll-around base model 80895 base in black; air motor cover in white. Height 43 1/8 in. (1 095 mm). Base 17 in. (432 mm) square. Drum not included.

Model 917-57 120 lb. (54 kg) drum

Same as model 917 without roll-a-round hase.

Model 6917 air-operated portable grease pump package

Lincoln's new heavy-duty portable grease pump delivers the same volume and pressure as the more expensive pumps – but at an affordable price.

- Lincoln's time-tested, 2 ½ in. (63,5 mm), 50:1, air-operated, double-acting grease pump ensures dependable, high-output grease delivery.
- Lube the hard-to-reach fittings with the heavy-duty control valve and universal swivel.
- Standard follower wipes 120 lb. (54 kg) drum sides clean and keeps the pump
- · Four-wheel dolly maneuvers easily around the shop.

Model 346P 120 lb. (54 kg) drum

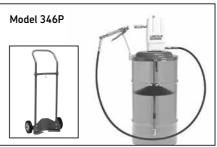
Same as model 917 except with model 674 hand truck which provides convenient transportation for unit. Hand truck has two semi-pneumatic disc wheels and screw-type clamp which locks unit to truck. Drum not included.











*▲ WARNING California Proposition 65: Cancer and reproductive harm www.P65Warnings.ca.gov

Air-operated grease pumps for 120 lb. (54 kg) drums

| Model | Bare pump | Drum cover | Base | Follower | Drum size | |
|--------|--------------|---------------|------|----------|-----------|----|
| _ | _ | _ | _ | _ | lb. | kg |
| 917-57 | 82050 | 46007 | _ | 84780 | 120 | 54 |

Delivery kit for unit includes: model 75084 high-pressure hose, model 11659 nipple, model 740 control valve, model 815 air coupler, model 82399 straight swivel and model 81387 universal swivel.

Note: Free delivery 80 cu. in./min. (1 311 cm³/min.)



Air-operated double-acting pumps for 35 lb. (16 kg) pails

Model 987 25 to 50 lb. (11 to 22 kg) pail/ 60 lb. (27 kg) bulk

For 25 to 30 lb. (11 to 13 kg) refinery containers or 60 lb. (27 kg) bulk. Gasket and air vent in lid assembly makes unit completely dust-proof, leak-proof and spill-proof. Ideal for use in all types of weather; container rust-proofed and finished in Lincoln red. Height 31 ³/₄ in. (806 mm); inside diameter of container 12 ¹/₂ in. (318 mm).

Model 989 25 to 50 lb. (11 to 22 kg) drum

Steel cover has three thumb screws to clamp securely to any original 25 to 50 lb. (11 to 22 kg) refinery container. Carrying handle provides easy portability. Follower plate assures positive prime at lowest temperatures. Cover rust-proofed and finished in Lincoln red. Bucket not included.



Air-operated double-acting pumps for 35 lb. (16 kg) drums

| Model | Bare pump | Drum cover | Base | Follower | Drum size | |
|-------------|----------------|----------------|----------|-------------------------------------|----------------------|----------------------|
| | _ | _ | _ | - | lb. | kg |
| 987 989* | 83513 82716 | 90656 91499 | <u>-</u> | Not supplied ¹⁾ 84775 | 25 to 50 25 to 50 | 11 to 23 11 to 23 |

¹⁾ Optional follower plate model 384775 can be used with original 25 to 50 lb. (11 to 23 kg) refinery grease bucket inside model 987

Delivery kits for all units include: model 75084 high-pressure hose, model 11659 nipple, model 740 control valve, model 815 air coupler,



Follower plates

Model 84775

Deluxe universal follower for use with 25 to 50 lb. (11 to 22 kg) containers for 1, 1 ¹/₄, 1 ¹/₂ in. (25, 32, 38 mm) diameter pump tubes. All rubber unit ensures complete grease dispensing to the bottom of dented or plastic lined drums; wipes pail or drum clean. Metal cap holds insert firmly in place, ensuring seal and maintaining vacuum.

Model 84780

Same as model 84775 except for use with 120 lb. (54 kg) containers for 1, 1 ¹/₄, 2 in. (25, 32, 51 mm) diameter pump tubes. Used with series 20 and 40 air-operated grease pumps.



model 82399 straight swivel and model 81387 universal swivel.

Note: Free delivery 80 cu. in/min. (1 311 cm³/min.)

*_WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Value series 40:1 single-acting, air-operated grease pumps

Features and benefits

- Professional quality lubrication at an affordable price
- High pressure
- Portable medium- to light-duty chassis lubrication
- Proven valved piston design
- Simple grease plunger/bushing
- · Control valve and universal swivel
- Easy, one-hand operation
- · Built for durability and reliability
- Maximum output:
 5 cu. in./2.5 oz. per min. (82 cm³/71 ml)

Model 4417 for 120 lb. (54 kg) drums (drum not included)

Includes 40:1 value series pump, drum cover, high-pressure control valve, universal swivel, coupler, 7 ft. (2,1 m) connecting hose, follower plate and band dolly.

Model 4459 for 25 to 50 lb. (11 to 22 kg) pail (pail not included)

Includes 40:1 value series pump, pail cover, handle, high-pressure control valve, universal swivel, coupler, 7 ft. (2,1 m) connecting hose, follower plate and band dolly.

Model 4489 for 25 to 50 lb. (11 to 22 kg) pail (pail not included)

Same as model 4459 except without band dolly.





Value series 40:1 single-acting, air-operated grease pumps technical data

| Model | 4417 | 4459 | 4489 |
|--------------------------------|-----------------------------|-----------------------------------|-------------------------------------|
| Container size | 120 lb. (54 kg) | 25 to 50 lb. <i>(11 to 22 kg)</i> | 25 to 50 lb. (<i>11 to 22 kg</i>) |
| Four wheel caster dolly | Yes | Yes | No |
| Ratio | 40:1 | 40:1 | 40:1 |
| Air motor effective diameter | 2 in. (<i>52 mm</i>) | 2 in. (<i>52 mm</i>) | 2 in. (<i>52 mm</i>) |
| Air inlet connection | ¹ /4 NPT (f) | ¹ /4 NPT (f) | ¹ /4 NPT (f) |
| Lube outlet | SAE-6 O-ring port | SAE-6 0-ring port | SAE-6 O-ring port |
| Volume output/minute | 5 in. ³ (82 cm³) | 5 in. ³ (82 cm³) | 5 in. ³ (82 cm³) |
| Maximum air pressure | 100 psi (7 bar) | 100 psi (7 bar) | 100 psi (7 bar) |
| Minimum air pressure | 40 psi (3 bar) | 40 psi (3 bar) | 40 psi (3 bar) |
| Maximum grease output pressure | 4 000 psi (276 bar) | 4 000 psi (276 bar) | 4 000 psi (276 bar) |
| Flexible follower | Included with all models | Included with all models | Included with all models |

Delivery kit for all models includes high-pressure grease control valve and coupler, universal swivel, 7 ft. (2,1 m) connecting hose.





Air gauges

Model 600401* gauge

Registers pressures up to 200 psi (13,79 bar). Dial diameter 2 in. (50,8 mm). ¹/₄ in. NPT center back connection. Calibrated both in psi and kg/cm².

*▲ WARNING

California Proposition 65: Cancer and reproductive harm www.P65Warnings.ca.gov

Miniature units Model 600003* miniature regulator

All brass construction with Buna N diaphragm. For $^{1}/_{4}$ in. pipe size. Maximum supply pressure: 300 psi (20,68 bar). Reduced pressure range: 0 to 125 psi (0 to 8,62 bar). Operating temperature range: -40 to +180 °F (-40 to +82 °C). Diameter 1 $^{3}/_{8}$ in. (35 mm), height 2 $^{3}/_{4}$ in. (70 mm), weight $^{1}/_{2}$ lb. (0.23 kg)





Drum dollies

Model 84191 25 to 50 lb. (5 gal.) [11 to 22 kg (20 liter)] band dolly

Band-type dolly for any original 25 to 50 lb. (11 to 22 kg) refinery containers; caster model 66060.

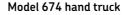


Model 84192 120 lb. (16 gal.) [54 kg (60 liter)] band dolly

Band-type dolly for use with 120 lb. (54 kg) refinery containers; caster model 66060.

Model 84377 drum dolly

Use with any 400 lb. (55 gal.) [181 kg (208 liter)] drum. ID 23 $^{1}/_{4}$ in. (591 mm), height 5 $^{1}/_{4}$ in. (133 mm), hard rubber wheels: 1 in. (25,4 mm) wide, 2 $^{1}/_{2}$ in. (63,5 mm) diameter.



All steel, rugged construction with 6 in. (152,4 mm) diameter wheels. Finished in Lincoln red. 41 high x 15 in. wide (1 041 high x 381 mm wide). For use with 120 lb. (54 kg) or 16 gallon (60 liter) drum.



Model 80895 roll-a-round base

Use with 120 lb. (54 kg) refinery containers. Four ball-bearing swivel casters and screw clamps.

Accessories

Model 66060 2 1/2 in. (63.5 mm) caster for roll-a-round base units

Standard equipment on Lincoln drum and band dollies.

Model 84941

Eye bolt kit for all series 20, 25 and 40 pumps, makes drum changing easy. Two part model 84941 kit screws directly onto pump for lifting with pump elevator.

Model 5841 drum plug wrench

Simplifies the opening and closing of caps and plugs on fluid drums, eliminating the need for cumbersome makeshift tools, such as screwdrivers and hammers.

Suitable for agriculture, construction, industrial, fleet maintenance and vehicle service applications. Compatible with standard metal and plastic caps or plugs on 16- and 55-gallon (60 and 208 l) drums.

- Non-sparking, non-corrosive aluminum construction
- Practical, hard-wearing tool
- Comfortable, textured grip for ease of use
- Fits most steel and plastic caps, including 3/4-inch vent plugs

Follower plates

Recommended when pumping lubricants that will not seek their own level.

Model 84775

Deluxe universal follower for use with 25 to 50 lb. (11 to 22 kg) containers for 1, 1 ¹/₄, and 1 ¹/₂ in. diameter pump tubes. All rubber unit ensures complete grease dispensing to the bottom of dented or plastic lined drums; wipes pail or drum clean. Metal cap holds insert firmly in place, ensuring seal and maintaining vacuum.

Model 84780

For use with 120 lb. (54 kg) containers for 1, 1 $^{1}/_{4}$, 1 $^{3}/_{8}$, 1 $^{1}/_{2}$ and 2 $^{1}/_{8}$ in. diameter pump tubes. Used with series 20 and 40 air-operated grease pumps.

Model 4417 for 120 lb. (54 kg) drums (drum not included)

Includes 40:1 value series pump, drum cover, high-pressure control valve, universal swivel, coupler, 7 ft. (2,1 m) connecting hose, follower plate and band dolly.

Model 4459 for 25 to 50 lb. (11 to 22 kg) pail (pail not included)

Includes 40:1 value series pump, pail cover, handle, high-pressure control valve, universal swivel, coupler, 7 ft. (2,1 m) connecting hose, follower plate and band dolly.

Model 4489 for 25 to 50 lb. (11 to 22 kg) pail (pail not included)

Same as model 4459 except without band dolly.

















Model 1275 Shown with optional hose and coupler assembly

Manually operated high-pressure grease pumps

Manual bucket pumps

These quality-built Lincoln bucket pumps dispense high-pressure lubrication in any weather – even at 0 °F (-18 °C).

Model 1292 grease pump

Unit clamps on any 25 to 50 lb. (11 to 22 kg) refinery container in 60 seconds. Includes model 275184 flexible follower. Dimensions (h x w): $21 \frac{1}{2} \times 12 \frac{1}{4}$ in. (546 x 311 mm). Tube size 1 ¹/₄ in. (32 mm)

Model 1272

Large 30 lb. (13 kg) lubricant capacity with easy pumping action, develops a 3 500 psi (241 bar) maximum pressure to lubricate the most closely fitted bearings. Automatic pressure release prevents nozzle drippage, waste and mess. Pump and lid assembly easily removed as a single unit for filling. Order 7 ft. (2 m) hose and coupler assembly (model 81768) separately. Dimensions (h x w x diameter): 28 x 14 x 9 in. (711 x 356 x 229 mm).

Model 1275

All purpose pump dispenses both lubricants and greases. Especially useful for lubrication of trac-roller bearings. Handle slot pin switches for high pressure 5 000 psi (345 bar) or high-volume, low pressure 2 000 psi (138 bar) delivery. 40 lb. (18 kg) capacity steel container filled through pivot cover opening in lid. May also be used for fast, clean refilling of transmissions, differentials, gear cases and final drives. Order 5 ft. (1,5 m) hose (model 79060) and button-head grease coupler (model 80933) separately. Dimensions (h x w x l): $23 \frac{1}{2} \times 11 \frac{3}{8} \times 14 \frac{5}{8} \text{ in.}$ (597 x 289 x 372 mm)

WARNING!

For safe and proper use, always consult instructions accompanying product. See Safety Warning Information for appropriate warnings.

Manual grease pumps

| Model | Container | size | Maximu | ım pressure | Coupler accessories | Hose type | | Follower | Output per stroke | |
|-------|---------------|---------------|------------|----------------|------------------------|-----------------|-------------------|------------------------|---|-----------------|
| _ | lb. | kg | psi | bar | _ | ft. | m | _ | OZ. | cm ³ |
| | vith original | refinery cont | niners – s | unnlied with h | uckat cavar ac | | | | | |
| 1292 | 25 to 50 | 11 to 23 | 2 500 | 172 | 5852 | 5 (model 79060) | 1,5 (model 79060) | 275184 | .303 1) | 8,6 |
| | | 11 to 23 | | | | | 1,5 (model 79060) | 275184 Not supplied | .303 ¹⁾ .37 (high) ²⁾ .95 (low) | · |

1) Using no. 1 multi-purpose grease at 80 °F (27 °C) 2) Using no. 1 cup grease at 70 °F (21 °C)

LINCOLN 100 **SKF**

Filler pumps - portable and stationary

- Fast (less than a minute), positive gun refilling with simple pumping action
- Filler socket assembly eliminates mess, waste and air pockets

Model 1296 clamp-on carry

Clamps to any original 25 to 50 lb. (11 to 22 kg) refinery container. Handles medium and light lubricants in any weather. Includes pump, filler socket, model 275183 flexible follower plate and ribbed steel drum cover. Rust resistant. Tube size 1 ½ in. (38 mm).

Model 500L stationary 120 lb. (54 kg) drum

For use with original refinery drums with maximum head diameter of 14 9/16 in. (370 mm) and overall height of 26 5/8 in. (676 mm). Handles all high-pressure lubricants. Includes pump, filler socket and drum cover with one set of adjusting screws to accommodate variations in drum diameter. Red enamel finish; pump head and handle in black. Delivers 1 oz. (28 ml) per stroke.





Filler pumps

| Model | Container size | | Container size Follower | | Follower | Filler socket 1) | Dimensions | | | |
|---------------|-----------------|----------------|------------------------------|-----------------|--|---|------------|--|--|--|
| _ | lb. | kg | | _ | in. | mm | | | | |
| 1296* 500L | 25 to 50 120 | 11 to 23 54 | 275183 None ²⁾ | 274712 80133 | 20 x 12 ¹ / ₄ (H x W) 26 ⁵ / ₈ x 14 ⁹ / ₁₆ (H x diameter) | 508 x 311 (H x W) 676 x 370 (H x diameter) | | | | |

¹⁾ Requires model 91108 filler nipple

Model 80133 filler socket assembly

Accepts model 91108 grease gun filler nipple. Attaches to filler pumps for fast, convenient, economical loading. ³/8 in. NPT (f).

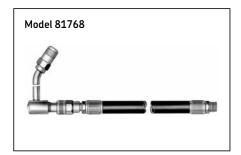
Model 91108 filler nipple

Enables hand guns to be loaded using filler pump method. Includes ball check. 1/8 in. NPT (m).



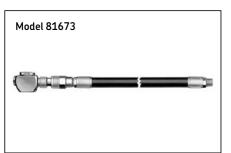


² For pumping extra heavy lubricants, order follower plate model 84780 for model 500L pump * **WARNING** California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Manually operated grease pump accessories

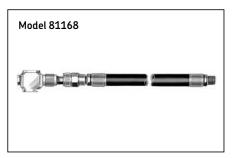
Delivery hose assemblies for bucket pumps



Delivery hose assemblies for bucket pumps

| Model | Size | | Swivel | Coupler accessories |
|-----------------------|----------------|------------------------------------|--------|---------------------|
| | ft. | m | - | _ |
| For contacti 81768 | ng hydrau 7 | lic fittings 2,13 | 80924 | 5834 |
| For contacti 81673 | ng standa 7 | rd button-head fittings 2,13 | 80924 | 81458 |
| For contacti 81168 | ng large b | utton-head fittings 2,13 | 80924 | 80933 |
| | | | | |

^{2 250} psi (155 bar) maximum operating pressure



Drum covers

Model 46007

Drum cover for 120 lb. (54 kg) or 16 gallon (60 liter) open top refinery containers for all series 20, 25 and 40 pumps.



<u>LINCOLN</u>

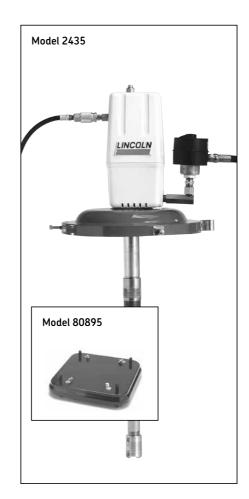
102 **5KF**

Air-operated gear lube and ATF pumps

Air-operated mobile gear lube dispensers

Fast, clean refilling using efficient Lincoln air-operated pumps.

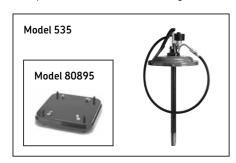
- 3:1 (model 2435) and 5:1 (model 2535) pump ratios delivers gear oil with minimum consumption.
- Air expeller built into pump tube prevents air from registering through meter.
- Large replaceable swivel casters provide ease of maneuverability (mobile models).
- Baked on enamel finish retards rust and corrosion.
- Includes air coupler model 815 and model 780 shut-off valves. Drum not included.



Air-operated gear lube and ATF pumps

| Model | Container | | Container | | | | Pump ratio | Meter | eter Style Hose size model 73060 | | | Tube size | | Nozzle | Output | |
|------------------------|-------------------|----------------|-------------------|--|--|-------------|-------------------|--|----------------------------------|-------------------|-------------|----------------|--|--------|--------|--|
| _ | lb. | kg | _ | _ | _ | ft. | m | in. | mm | - | gal./min. | liter/min. | | | | |
| 2435 2535 2435LN | 120 120 120 | 54 54 54 | 3:1 5:1 3:1 | 870 (pint) 870 (pint) 2873 (liter) | Drum cover Drum cover Drum cover | 5 5 5 | 1,5 1,5 1,5 | 25 ³ / ₄ 25 ³ / ₄ 25 ³ / ₄ | 654 654 654 | 780 780 780 | 6 6 6 | 23 23 23 | | | | |

All models include model 80895 roll-a-round base



Model 1253



Model 1293 Model 82757





Manual gear lube dispensers

These quality manually operated pumps provide fast, clean refilling of differentials, gear cases and final drives.

- Cast iron pump outlet body and handle (except model 1293) provide durability and longevity.
- Metered models have air expeller built into pump tube (prevents air from registering on meter).
- Large replaceable swivel casters provide ease of maneuverability (mobile models).
- Baked enamel finish. Self-contained units and sealed models prevent contamination or spillage of product being dispensed.
- Smooth, easy pumping action (no crank or gears) dispenses all types of gear lubricants, even in the coldest weather.

Model G400 lever-action bucket pump

Fits 5 gallon (19 liter) buckets. Includes pump, 18 in. (457 mm) drum cover and 4 ft. (1,2 m) delivery hose. Perfect for transferring petroleum-based fluids. Model 82757 hose and nozzle upgrade kit for model 1293. Includes model 80999 nozzle assembly and 5 ft. (1,5 m) model 74560 hose.

Accessories

Model 82757 hose/nozzle kit

Hose and nozzle upgrade kit for model 1293. Includes model 80999 nozzle assembly and 5 ft. (1,5 m) model 74560

Model 674 hand truck

All steel, rugged construction with 6 in. (152 mm) diameter wheels. Finished in Lincoln red. 41 high x 15 in. wide (1 041 high x 381 mm wide). For use with 120 lb. (54 kg) or 16 gallon (60 liter) drum.

Model 80895 roll-a-round base

Use with 120 lb. (54 kg) refinery containers. Four ball bearing swivel casters and screw clamps. Included with models listed above.

Manual gear lube dispensers

| Model | Container | | Meter | Style Base | | Hose size (model 74560) | | Nozzle | Output | |
|--------|-----------|----------|---------------|----------------------|--------------------|----------------------------|-----|--------|--------|----|
| | lb. | kg | _ | in. | - | ft. | m | _ | _ | _ |
| 535 | 120 | 54 | (pints) | 15 ID drum cover | 80895 roll-a-round | 5 | 1,5 | 80599 | 2) | 2) |
| 535LN | 120 | 54 | 2873 (liters) | 15 ID drum cover | 80895 roll-a-round | 5 | 1,5 | 80599 | 2) | 2) |
| 535-58 | 120 | 54 | (pints) | 15 ID drum cover | – | 5 | 1,5 | 80599 | 2) | 2) |
| 549 | 120 | 54 | – | 15 ID drum cover | 80895 roll-a-round | 5 | 1,5 | 80599 | 2) | 2) |
| 549-58 | 120 | 54 | – | 15 ID drum cover | _ | 5 | 1,5 | 80599 | 2) | 2) |
| 1253 | 30 (bulk) | 14 | (pints) | self contained | 1) | 5 | 1,5 | 80599 | 2) | 2) |
| 1253LN | 30 (bulk) | 14 | 2873 (liters) | self contained | 1) | 5 | 1,5 | 80599 | 2) | 2) |
| 1254 | 30 (bulk) | 14 | - | self contained | 1) | 5 | 1,5 | 80599 | 2) | 2) |
| 1293* | 5 gal. | 19 liter | - | 12 ID clamp-on cover | — | 5 | 1,5 | - | 3) | 3) |
| G400* | 5 gal. | 19 liter | _ | 12 ID clamp-on cover | _ | 5 | 1,5 | - | | |

For use with non-corrosive fluids, automotive, agricultural and industrial fluids such as motor oil, transmission fluid, gear oil, engine coolant, silicone oils, and more (not suitable for gasoline).

Model 1326 diaphragm action

Neoprene seals resist wear from abrasive fluids. Double-acting diaphragm delivers 1 gallon/8 strokes (3,8 liter/8 strokes). 8 ft. (2,4 m) hose with discharge nozzle.

Model 1335

This close tolerance pump utilizes brass rings for extreme durability and expanded fluid compatibility. Telescoping pick-up tube with standard 2 in. bung. Bung opening tool built into pump head to open sealed refinery container. 6 ft. (1,8 m) hose with discharge nozzle forward facing, two position handle.

Model 1340 lever-action barrel pump

Extended pump body improves top-of-barrel clearance while providing excellent flow per stroke [14.0 fl oz. (414 ml) minimum per stroke].

- Removable non-drip spout allows for threaded hose connection
- Telescoping pick-up tube
- Two-tier threaded bung fits standard 2 and 1.5 in. (50,8 and 38,1 mm) drums

Model G401 lever-action barrel pump

Fits 16 to 55 gallon (60,6 to 208 liter) drums. Delivers 10 oz. (283 ml) per stroke. Includes standard bung bushing. Designed for transfer of petroleum-based, non-corrosive liquids. Curved metal spout features threads to fit all garden hoses.









Manually operated transfer pumps

| Model | Drum size | | Bung bushing NPT (m) | | | Fluid compatibility | | |
|-------|-----------|-----------|-------------------------|-----|-------|--|--|--|
| _ | gal. | liter | in. | OZ. | liter | - | | |
| 1326 | 16 to 55 | 60 to 208 | 2 | 16 | 0,47 | Motor oil, transmission fluid, fuel oils, engine coolant, diesel, kerosene, hydraulic oil | | |
| 1335* | 16 to 55 | 60 to 208 | 2 | 8.5 | 0,25 | Motor oil, transmission fluid, gear oil, fuel oils, engine coolant, diesel, kerosene, hydraulic oil | | |
| 1340* | 16 to 55 | 60 to 208 | 2 and 1.5 | 14 | 0,41 | Motor oil, transmission fluid, gear oil, fuel oils, engine coolant, diesel, kerosene, hydraulic oil | | |
| G401* | 16 to 55 | 60 to 208 | 2 | 10 | 0,28 | Motor oil, transmission fluid, gear oil, fuel oils, engine coolant, diesel, kerosene, hydraulic oil | | |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov







Rotary drum pumps

Model 1385

- Fluid types oils, diesel, kerosene, coolant, non-corrosive materials, petroleumbased fluids, hydraulic oils, ATF
- Internal check prevents drain-back and assures immediate restart
- Seal-tight telescoping pick-up tube with strainer

Model 1385-H (with hose)

Same as model 1385 except includes heavy-duty $^3/_4$ in. x 8 ft. (2,44 m) anti-static hose with non-sparking aluminum nozzle.

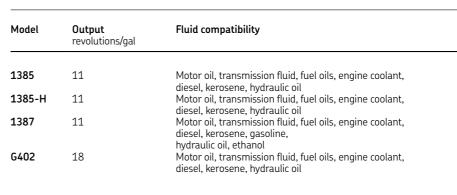
Model 1387 (fuel)

- Fluid types gasoline, diesel, kerosene, coolant, non-corrosive materials, medium-viscosity petroleum-based fluids, hydraulic oils, ATF
- Heavy-duty ³/₄ in. x 8 ft. (2,44 m) anti-static hose with non-sparking aluminum nozzle
- Flame arrestor and anti-siphoning vacuum break
- Seal-tight telescoping pick-up tube with strainer
- FM approved

Model G402 rotary barrel pump

Cast iron pump head for transferring petroleum-based, non-corrosive fluids. Comes with standard bung bushing. Delivers approximately one gallon (3,8 liter) per 18 revolutions of handle.

Rotary drum pumps





Lube dispensing stations

Model 84951 oil bar

Modular three spigot capable red steel oil bar for use with dispensing motor oil, ATD and other fluids. Unit includes a removable tray for disposal of spillage and knock-outs for mounting inline digital meters.

Model 84951-BK oil bar

Same unit as model 84951 but black.

Model 277564 locking spigot

Spring-loaded oil spigot for use with oil pumps to dispense fluids into fill cans. The unit has a latching-style lever to lock the spigot open while dispensing. Recommended when used in conjunction with a Lincoln fluid inventory management system. 3/4 in. NPT (m) and 1/2 in. NPT (f).

Model 277565 non-locking spigot

Spring-loaded oil spigot for use with oil pumps to dispense fluids into fill cans. ³/₄ in. NPT (m) and ¹/₂ in. NPT (f).

Model 277566 15 gallon/minute (56 liter/minute) flow control valve

Flow control valve that provides precision flow control in one direction and automatically allows unrestricted free flow in opposite direction. Two-step needle allows fine adjustment at low flow with first three turns of adjusting knob. Next three turns give full-open needle position and conventional throttling control. 1/2 in.-14 NPT (f); flow range: 15 gal./min. (56 liter/min.); maximum pressure: 2 000 psi (138 bar).

Model 814 universal digital inline meter

Measures in quarts, gallons or liters. Resettable and non-resettable accumulative totals. 1 000 psi (69 bar) maximum, ½ in. inlet/outlet, 8 gal./min. (30 liter/min.) maximum.

Model 278549 special fluid non-locking spigot

Non-locking spigot for use with waterbased fluid such as washer fluid and coolant.

Model 278629 meter installation kit

Kit includes one 1/2 in. NPT street elbow, one 1/2 in. NPT adapter union, and one $1/2 \times 1$ in. NPT pipe to connect a meter into the spigot above the oil bar.



Shown with two model 277564 spigots







Hose reels and accessories

| Power cord and light hose reels |
|---------------------------------------|
| Value series air hose reels |
| Alemite compact hose reels |
| Alemite heavy duty hose reels |
| Alemite narrow double post hose reels |
| Heavy-duty series hose reels |
| High-flow series reels |
| Hose and hose reel accessories |
| Decorative hose reels 128 |



Power cord and light reels

Value series air and water reels







Alemite heavy-duty reels



Heavy-duty reels



High-flow reels

Power cord and light hose reels

Introducing Lincoln's new line of power cord and light reels. Designed for light-, medium- and heavy-duty applications in home, shop and factory environments.

Power cord reels

- Clear triple tap illuminates when receiving power
- Overload protection
- Adjustable cord stop with anti-kink cord spring
- 4 ft. (1,2 m) connection lead
- 125 V AC input voltage
- cUL listed

Model 91029 medium duty

- 50 ft. (15,2 m) 14/3 SJTOW cord cold weather compatible, grease, oil and water resistant
- Heavy-duty flame resistant ABS housing
- Wall, ceiling or bench mounted with three fixed-angle positions
- 12 amp rating

Heavy duty reels

- Spring retractable with latch
- Compact for critical space requirements
- Durable abrasion and corrosion resistant baked-on powder coat finish
- Wall, ceiling or bench mount
- Engineered for industrial use
- All models supplied with cord are complete with approximately 4 ft. (1,2 m) pigtail and three-prong plug
- Adjustable cord stop
- cUL listed

Model 91030

- Single receptacle
- 50 ft. (15,2 m) 16/3 SJTOW cord cold weather compatible, grease, oil and water resistant
- 13 amp rating

Model 91031

- Single receptacle
- 45 ft. (13,7 m) 12/3 SJEOW cord
- 20 amp rating

Model 91032

- Duplex outlet box with GFCI (F)
- 45 ft. (13,7 m) 12/3 SJEOW cord
- 20 amp rating

Model 91033

- Fluorescent light
- 50 ft. (15,2 m) 16/2 SJTOW cord cold weather compatible, grease, oil and water resistant

Model 91034

- Fluorescent light and outlet
- 50 ft. (15,2 m) 16/3 SJTOW cord cold weather compatible, grease and oil resistant
- 10 amp rating

Model 91035

- Two 4 watt, high-output LEDs provide bright, even light over the work surface
- 1 watt lensed output LED flashlight at the end provides bright light in tight spaces
- Polycarbonate impact- and shatterresistant light tube
- Quiet speed-latching mechanism maintains desired working length of cord
- Inline molded tool tap capable of drawing up to 13 A (maximum)
- Protected two-way on/off switch located on handle
- Suited for indoor applications only















Value series air and water hose reels

Air and water reel – value series

Lincoln's value series air and water hose reels are constructed of durable, heavy-gauge steel and quality hoses. Designed for stationary indoor and outdoor use, they can be attached to most surfaces that can be drilled. Features include five-position adjustable outlet roller arm, spring-powered automatic recoil, angled hose guide for smooth, parallel hose pull-out and retraction and an eight-position ratchet gearing that locks the reel at the desired hose length.

Model 83753

3/8 in. x 50 ft. (15 m) assembled air and water hose reel includes bare hose reel, 50 ft. (15 m) delivery hose and ball stop.

Model 83754

 $^{1}/_{2}$ in. x 50 ft. (15 m) assembled air and water hose reel includes bare hose reel, 50 ft. (15 m) delivery hose and ball stop.

Value series air and water reel models

| Model | Assembly | Inlet size NPT | Maxim pressu | | Maximum air flow | | |
|------------------|---|------------------------------------|-----------------|----------|---------------------|----------|--|
| | | in. | psi | bar | cfm | m³/min. | |
| 83753* 83754* | 50 ft. (15,2 m) of ³ / ₈ in. air/water hose 50 ft. (15,2 m) of ¹ / ₂ in. air/water hose | 1/ ₄ 1/ ₂ | 300 300 | 21 21 | 25 35 | 0,7 1 | |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Replacement hose models

| Model | Assembly | Inlet size NPT | Maximu pressur | •••• | Maximum air flow | | |
|--------------------|---|------------------------------------|-------------------|----------|---------------------|----------|--|
| | | in. | psi | bar | cfm | m³/min. | |
| 278752* 278749* | 50 ft. (15,2 m) of ¹ / ₂ in. air/water hose 50 ft. (15,2 m) of ³ / ₈ in. air/water hose | 1/ ₂ 1/ ₄ | 300 300 | 21 21 | 35 25 | 1 0,7 | |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Replacement swivels models

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| Model | Swivel |
|--------|---------|
| 83753* | 279135* |
| 83754* | 279136* |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



5KF

Alemite compact hose reels

Alemite compact reels provide optimum performance and safety in rough working environments. Featuring the same mounting pattern as Alemite's heavy duty and severe duty reels, these models are engineered for use in locations where space is limited. Alemite compact reels utilize shorter arms and a smaller diameter to provide reel performance in tight spaces.

- Saves space; fits in cabinets with 16.5 in. (419 mm) depth
- Superior performance of swivel and reel ball bearings reduce torque load on power spring for smooth retraction every time
- Anti-lockout design of ratchet prevents lockup when hose is fully extended, eliminating the need to manually release the pawl at the reel

- Sealed bearings prevent contamination and minimize maintenance, a critical performance factor in dirty environments
- Factory lubricated one piece power spring cassette makes installation and maintenance safe and easy
- Durable, heavy metal arbor design withstands extreme stress and eliminates breakage associated with non-metal and light weight metal arbors
- Adjustable 5 position guide arm allows hose to release at an optimum position.
 Narrow design allows for efficient use of available space
- Includes hose reel, hose, hose stop, union and 24 in. (61 cm) connecting hose



Compact reel for oil

| Model | Color | Maxim pressu | | Descrip Diamet | otion er Length | 1 | Included with re Bare reel model | el assembly Connecting hose | Delivery hose | Ball stop | Weigl | ht |
|--------|--------|-----------------|-----|--------------------------|---------------------------|---|--|--------------------------------|---------------|-----------|-------|----|
| | | psi | bar | in. | ft. | m | | | | | lb. | kg |
| 8016-C | Maroon | 1,500 | 103 | 1/2 | 30 | 9 | 7316-C | 317813-2 | 317813-30 | 337437 | 53 | 24 |

Compact reel for air/water

| Model | Color | Maxin pressi | | Descri Diamet | otion er Lengt | h | Included with re Bare reel model | el assembly Connecting hose | Delivery hose | Ball stop | Weig | nt |
|---------|--------|-----------------|-----|-------------------------|--------------------------|------|--|--------------------------------|---------------|-----------|------|------|
| | | psi | bar | in. | ft. | m | | | | | lb. | kg |
| 8016-F* | Maroon | 300 | 21 | 3/8 | 50 | 15,2 | 7316-F | 317811-2 | 317803-50 | 337437 | 53 | 24kg |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

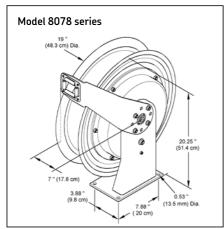
Bare reels

| Model | Color | Usage | Maximum pressure | 1 | Description Reel inlet | Reel outlet | Weight | |
|-------------------|------------------|------------------|---------------------|-----------|--|--|----------|--------------|
| | | | psi | bar | in. | in. | lb. | kg |
| 7316-C 7316-F* | Maroon Maroon | Oil Air/water | 1,500 300 | 103 21 | ¹ / ₂ NPTF(f) ¹ / ₂ NPTF(f) | ³ / ₈ NPSM(f) swivel ¹ / ₄ NPSM(f) swivel | 43 43 | 19,5 19,5 |

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^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov





Alemite heavy duty hose reels

Alemite heavy duty reels set the industry standard for reliable, rugged performance in tough work environments. Engineered for optimum performance and safety, these reels are suitable for a wide range of demanding applications.

- Superior performance of swivel and reel ball bearings reduce torque load on power spring for smooth retraction every time
- Anti-lockout design of ratchet prevents lockup when hose is fully extended, eliminating the need to manually release the pawl at the reel
- Sealed bearings prevent contamination and minimize maintenance, a critical performance factor in dirty environments

- Factory lubricated one piece power spring cassette makes installation and maintenance safe and easy
- Durable, heavy metal arbor design withstands extreme stress and eliminates breakage associated with non-metal and light weight metal arbors
- Adjustable 5 position guide arm allows hose to release at an optimum position.
 Narrow design allows for efficient use of available space
- Compatible with oil, grease, air and water
- Includes hose reel, hose, hose stop, union and 24" (61 cm) connecting hose

Heavy duty reels for oil

| Model | Color | Maximu pressur | | Delivery hose Specification | Model | Outlet | Connecting hos Inlet | e * Model | Weig | jht |
|----------|--------|-------------------|-----|--|-----------|---|---|--------------|------|-----|
| | | psi | bar | | | | | | lb. | kg |
| 8078-C | Maroon | 1,500 | 103 | ¹ / ₂ in. ID x 30 ft. (9 m) | 317813-30 | 1/2 in. NPTF(m) | ¹ / ₂ in. NPTF(m) | 317813-2 | 58 | 26 |
| 8078-D | Maroon | 1,500 | 103 | ¹ / ₂ in. ID x 50 ft. (15 m) | 317813-50 | 1/2 in. NPTF(m) | ¹ / ₂ in. NPTF(m) | 317813-2 | 58 | 26 |
| 8078-DBL | Blue | 1,500 | 103 | ¹ / ₂ in. ID x 50 ft. (15 m) | 317813-50 | 1/2 in. NPTF(m) | ¹ / ₂ in. NPTF(m) | 317813-2 | 58 | 26 |
| 8078-DBK | Black | 1,500 | 103 | ¹ / ₂ in. ID x 50 ft. (15 m) | 317813-50 | ¹ / ₂ in. NPTF(m) | ¹ / ₂ in. NPTF(m) | 317813-2 | 58 | 26 |
| 8078-DW | White | 1,500 | 103 | ¹ / ₂ in. ID x 50 ft. (15 m) | 317813-50 | ¹ / ₂ in. NPTF(m) | ¹ / ₂ in. NPTF(m) | 317813-2 | 58 | 26 |

^{*} Connecting hose length is 24 in. (61 cm)

Heavy duty reels for grease

| Model | Color | Maximu pressur | | Delivery hose Specification | Model | Outlet | Connecting hos Inlet | e * Model | Weig | ght |
|----------|--------|-------------------|-----|--|-----------|-----------------|-------------------------|--------------|------|-----|
| | | psi | bar | | | | | | lb. | kg |
| 8078-A | Maroon | 6,400 | 440 | ¹ / ₄ in. ID x 30 ft. (9 m) | 317874-30 | 1/4 in. NPTF(f) | 3/8 in. NPTF(m) | 317876-2 | 56 | 25 |
| 8078-B | Maroon | 6,000 | 413 | ¹ / ₄ in. ID x 50 ft. (15 m) | 317874-50 | 1/4 in. NPTF(f) | 3/8 in. NPTF(m) | 317876-2 | 59 | 27 |
| 8078-T | Maroon | 6,400 | 440 | ³ / ₈ in. ID x 50 ft. (15 m) | 317870-50 | 1/4 in. NPTF(f) | 3/8 in. NPTF(m) | 317882-2 | 63 | 29 |
| 8078-BBL | Blue | 6,000 | 413 | 1/4 in. ID x 50 ft. (15 m) | 317874-50 | 1/4 in. NPTF(f) | 3/8 in. NPTF(m) | 317876-2 | 59 | 27 |
| 8078-BBK | Black | 6,000 | 413 | 1/2 in. ID x 50 ft. (15 m) | 317874-50 | 1/4 in. NPTF(f) | 3/8 in. NPTF(m) | 317876-2 | 59 | 27 |
| 8078-BW | White | 6,000 | 413 | 1/4 in. ID x 50 ft. (15 m) | 317874-50 | 1/4 in. NPTF(f) | 3/8 in. NPTF(m) | 317876-2 | 59 | 27 |

* Connecting hose length is 24 in. (61 cm)









Colors not available in every size or length.

Heavy duty reels for air/water

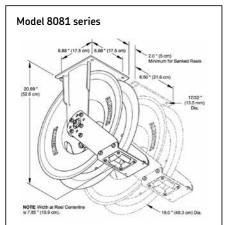
| Model | Color | Maximum pressure | | | | Connecting hos Inlet | Connecting hose * Inlet Model | | Weight | |
|----------|--------|---------------------|-----|--|-----------|-----------------------------|-------------------------------|----------|--------|----|
| | | psi | bar | | | | | | lb. | kg |
| 8078-E | Maroon | 300 | 20 | 3/8 in. ID x 30 ft. (9 m) | 317803-30 | 1/4 in. NPTF(m) | 1/2 in. NPTF(m) | 317811-2 | 51 | 23 |
| 8078-F | Maroon | 300 | 20 | 3/8 in. ID x 50 ft. (15 m) | 317803-50 | 1/4 in. NPTF(m) | 1/2 in. NPTF(m) | 317811-2 | 53 | 24 |
| 8078-M | Maroon | 300 | 20 | 1/2 in. D x 50 ft. (15 m) | 317811-50 | 1/2 in. NPTF(m) | 1/2 in. NPTF(m) | 317811-2 | 61 | 28 |
| 8078-FBL | Blue | 300 | 20 | ³ /s in. ID x 50 ft. (15 m) | 317803-50 | ¹ /4 in. NPTF(m) | 1/2 in. NPTF(m) | 317811-2 | 53 | 24 |
| 8078-FBK | Black | 300 | 20 | ³ /s in. ID x 50 ft. (15 m) | 317803-50 | ¹ /4 in. NPTF(m) | 1/2 in. NPTF(m) | 317811-2 | 53 | 24 |
| 8078-FW | White | 300 | 20 | ³ /s in. ID x 50 ft. (15 m) | 317803-50 | ¹ /4 in. NPTF(m) | 1/2 in. NPTF(m) | 317811-2 | 53 | 24 |

^{*} Connecting hose length is 24 in. (61 cm)

Bare reels

| | | , | | | | | | | |
|--------|--------|-----------|---------------------|-----|-------------------------------------|--|-------|----|--|
| Model | Color | Usage | Maximum pressure | | Description Reel inlet | Reel outlet | Weigh | t | |
| | | | psi | bar | in. | in. | lb. | kg | |
| 7135-A | Blue | Oil | 1,500 | 103 | ¹ / ₂ NPTF(f) | ¹ / ₂ NPTF(f) swivel | 50 | 23 | |
| 7135-B | Black | Oil | 1,500 | 103 | ¹ / ₂ NPTF(f) | ¹ / ₂ NPTF(f) swivel | 50 | 23 | |
| 7135-C | White | Oil | 1,500 | 103 | ¹ / ₂ NPTF(f) | ¹ / ₂ NPTF(f) swivel | 50 | 23 | |
| 7335-B | Maroon | Oil | 1,500 | 103 | 1/2 NPTF(f) | ¹ / ₂ NPTF(f) swivel | 50 | 23 | |
| 7134-A | Blue | Grease | 6,000 | 413 | 1/2 NPTF(f) | ³ / ₈ NPTF(f) swivel | 50 | 23 | |
| 7134-B | Black | Grease | 6,000 | 413 | 1/2 NPTF(f) | ³ / ₈ NPTF(f) swivel | 50 | 23 | |
| 7134-C | White | Grease | 6,000 | 413 | 1/2 NPTF(f) | ³ /8 NPTF(f) swivel | 50 | 23 | |
| 7334-B | Maroon | Grease | 6,000 | 413 | 1/2 NPTF(f) | ³ /8 NPTF(f) swivel | 50 | 23 | |
| 7136-A | Blue | Ai/Water | 300 | 20 | 1/2 NPTF(f) | ³ /8 NPTF(f) | 50 | 23 | |
| 7136-B | Black | Air/Water | 300 | 20 | 1/2 NPTF(f) | 3/8 NPTF(f) | 50 | 23 | |
| 7136-C | White | Air/Water | 300 | 20 | 1/2 NPTF(f) | 3/8 NPTF(f) | 50 | 23 | |
| 7336-B | Maroon | Air/Water | 300 | 20 | 1/2 NPTF(f) | 3/8 NPTF(f) | 50 | 23 | |





Alemite narrow double post hose reels

Alemite narrow double post reels provide the rugged, reliable performance of an Alemite reel, with a narrower design to fully optimize space efficiency. The dual arm design provides increased strength and stability in demanding off road applications.

- Narrow design 8.5" (22 cm) wide for better space utilization
- Superior performance of swivel and reel ball bearings reduce torque load on power spring for smooth retraction every time
- Anti-lockout design of ratchet prevents lockup when hose is fully extended, eliminating the need to manually release the pawl at the reel

- Sealed bearings prevent contamination and minimize maintenance, a critical performance factor in dirty environments
- Factory lubricated one piece power spring cassette makes installation and maintenance safe and easy
- Durable, heavy metal arbor design withstands extreme stress and eliminates breakage associated with non-metal and light weight metal arbors
- Adjustable 5 position guide arm allows hose to release at an optimum position.
 Narrow design allows for efficient use of available space
- Compatible with oil, grease, air, water, fuel and hydraulic fluid
- Includes hose reel, hose, hose stop and swivel inlet union

Narrow double post reels for oil

| Model | Maximu pressur | | Delivery hose Specification | Model | Outlet | Reel Inlet | Weig | ht |
|------------------|-------------------|------------|--|------------------------|--|--|----------|----------|
| | psi | bar | | | | | lb. | kg |
| 8081-C 8081-D | 1,800 1,800 | 124 124 | ¹ / ₂ in. ID x 40 ft. (12 m) ¹ / ₂ in. ID x 50 ft. (15 m) | 317813-40 317813-50 | ¹ / ₂ in. NPTF(m) ¹ / ₂ in. NPTF(m) | ¹ / ₂ in. NPSM(m) ¹ / ₂ in. NPSM(m) | 71 74 | 32 34 |

Narrow double post reels for grease

| Model | Maximum pressure | | Delivery hose Specification Model | | Outlet | Reel Inlet | Weig | ht |
|----------------------------|-------------------------|-------------------|---|-------------------------------------|---|---|----------------|----------------|
| | psi | bar | | | | | lb. | kg |
| 8081-A 8081-B 8081-J | 6,500 6,500 4,000 | 448 448 275 | 1/4 in. ID x 30 ft. (9 <i>m</i>) 1/4 in. ID x 50 ft. (15 <i>m</i>) 3/8 in. ID x 50 ft. (15 <i>m</i>) | 317874-30 317874-50 317870-50 | 1/4 in. NPTF(f) 1/4 in. NPTF(f) 1/4 in. NPTF(f) | ³ /8 in. NPSM(m) ³ /8 in. NPSM(m) ³ /8 in. NPSM(m) | 71 72 72 | 32 33 33 |

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Narrow double post reels for air/water

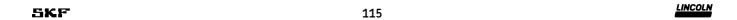
| Model | Maximum pressure | | Delivery hose Specification Model Outlet | | | Reel Inlet | Weight | |
|----------------------------|---------------------|----------------|--|-------------------------------------|---|---|----------------|----------------|
| | psi | bar | | | | | lb. | kg |
| 8081-E 8081-F 8081-G | 300 300 300 | 20 20 20 | 3/8 in. ID x 40 ft. (12 m) 3/8 in. ID x 50 ft. (15 m) 1/2 in. ID x 50 ft. (15 m) | 317803-40 317803-50 317811-50 | 1/4 in. NPTF(m) 1/4 in. NPTF(m) 1/2 in. NPTF(m) | ¹ / ₂ in. NPSM(m) ¹ / ₂ in. NPSM(m) ¹ / ₂ in. NPSM(m) | 62 64 69 | 28 29 31 |

Narrow double post reels for fuel

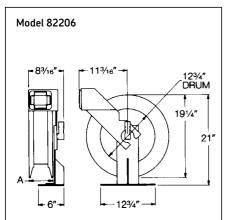
| Model | l Maximum pressure | | Delivery hose Specification Model | | Outlet | Reel Inlet | Weigl | ht |
|--------|-----------------------|-----|---|-----------|---|----------------------|-------|----|
| | psi | bar | | | | | lb. | kg |
| 8081-K | 300 | 20 | ³ / ₄ in. ID x 30 ft. (9 <i>m</i>) | 317868-30 | ³ / ₄ in. NPTF(m) | ³/4 in. NPSM(m) | 75 | 34 |

Bare reels

| Model | Color | Usage | Maximu pressure | | Description Union inlet | | | Weig | eight | |
|----------------------|----------------------------|----------------------------|-----------------------|------------------|---|----------------------------------|--|----------------|----------------|--|
| | | | psi | bar | in. | | in. | lb. | kg | |
| 7371 7370 7372 | Maroon Maroon Maroon | Oil Grease Air/water | 1,800 6,500 300 | 124 448 20 | ¹ / ₂ NPSM(m) ¹ / ₂ NPSM(m) ¹ / ₂ NPSM(m) | 340528-3 340528-2 340528-3 | ¹ / ₂ NPSM(f) swivel ³ / ₈ NPSM(f) swivel ¹ / ₄ NPSM(f) swivel | 57 58 55 | 26 27 25 | |
| 7373 | Maroon | Fuel | 300 | 20 | ³/4 NPSM(m) | 340528-4 | 3/4 NPSM(f) swivel | 61 | 28 | |







Heavy-duty series hose reels

The heavy-duty series reels are the finest Lincoln lube reels ever designed. Years of engineering, testing and experience preceded their introduction. The quality and reliability the professional expects from Lincoln is not only met but exceeded in form and function by the heavy-duty series. Value, long-life and top performance were the criteria demanded before these incredible reels were released.

You should expect the best from Lincoln and the heavy-duty series reel delivers it.

Features

- All bare reels rated for high, medium and low pressure
- Reel assemblies available in standard 30, 40 and 50 ft. (9, 12 and 15 m) hose lengths
- Dual needle roller bearings
- Ball bearing inlet swivel design
- Quick disconnects on delivery and connecting hose

- Spring canister with seals
- Thirteen position roller outlet arm
- Delrin rollers
- Quarter-inch thick steel welded base and roller outlet arm
- Reel sheaves are rolled
- Components individually powder painted for long life and scratch resistance
- All reel assemblies factory assembled and pressure tested to insure a quality leak-free installation every time
- Basic reel assemblies can be ordered with one model number; include delivery hose, ball stop and connecting hose
- Complete reel assemblies with meter, control valve or air coupler are also available as one model number
- Backed by a five-year limited warranty.
 See your Lincoln representative for details

Bare reels for grease, oils, air and water

| Model | Reel application | Hose car Type | pacity Length | | Inlet size | Pressure Working | Pressure Working | | ve I |
|-------|---------------------------|---|----------------------------------|----------------------------------|--|--|---|--|--|
| | | | ft. | m | in. | psi | bar | in. | mm |
| 82206 | Heavy-duty long length | 75 76A 76B 73 78 Class A | 50 50 50 50 50 50 | 15 15 15 15 15 15 | 1/2 NPT (f) 1/2 NPT (f) 1/2 NPT (f) 1/2 NPT (f) 1/2 NPT (f) 1/2 NPT (f) | 8 000* 8 000* 8 000* 8 000* 8 000* | 552 552 552 552 552 552 552 | 5 ¹ / ₂ 5 ¹ / ₂ | 140 140 140 140 140 140 |

^{*} Actual working pressure of the reel should not exceed pressure rating of the installed hose.

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Model 85050 Model 83464-50

High-pressure reels and assemblies – basic grease assemblies* less hose end control

| Basic reel | Bare reel | Delivery hose | Hose size Diameter | Length | | Connecting hose | Ball stop | Control valve |
|------------|-----------|---------------|------------------------------|--------|----|-----------------|-----------|---------------|
| | | | in. | ft. | m | | | - |
| 85003-30* | 82206 | 75360 | 1/ ₄ | 30 | 9 | 75024 | 85516 | - |
| 85004* | 82206 | 75480 | 1/ ₄ | 40 | 12 | 75024 | 85516 | - |
| 85004-50 | 82206 | 75600 | 1/ ₄ | 50 | 15 | 75024 | 85516 | - |
| 85006-30B | 82206 | 76360B | ³ / ₈ | 30 | 9 | 76024B | 85517 | - |
| 85004-50B | 82206 | 76600B | ³ / ₈ | 50 | 15 | 76024B | 85517 | - |
| 85008-50A | 82206 | 76600A | ¹ / ₂ | 50 | 15 | 76024A | 85517 | - |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Medium pressure reels and assemblies - basic fluid lubricant, antifreeze and windshield washer fluid assemblies* less hose end control

| Basic reel | Bare reel | Delivery hose | Hose size Diameter | Lengt | th | Connecting hose | Ball stop | Control valve |
|------------|-----------|---------------|------------------------------|-------|----|-----------------|-----------|---------------|
| | | | in. | ft. | m | | | - |
| 83463 | 82206 | 73240 | 1/ ₂ | 20 | 6 | 73024 | 85517 | _ |
| 83463-30 | 82206 | 73360 | 1/ ₂ | 30 | 9 | 73024 | 85517 | _ |
| 83464 | 82206 | 73480 | 1/ ₂ | 40 | 12 | 73024 | 85517 | _ |
| 83464-50 | 82206 | 73600 | 1/ ₂ | 50 | 15 | 73024 | 85517 | - |
| 85009-50 | 82206 | 78600 | 5/ ₈ | 50 | 15 | 78024 | 84347 | - |

[★] See pages 144-155 for meter, valve, or air coupler options for end of delivery hose.

Complete grease assemblies with universal swivel and control valve $% \left(1\right) =\left(1\right) \left(1\right)$

| Assembly | Bare reel | Delivery hose | Included w i Hose size Diameter | th ree | | ies (quantity) Connecting hose | Ball stop | Control valve or meter | Swivel | Nipple |
|-----------------|----------------|------------------|---|----------|---------|-----------------------------------|----------------|------------------------|----------------|----------------------|
| | | | in. | ft. | m | | | | | _ |
| 85050 85051* | 82206 82206 | 75360 75600 | 1/ ₄ 1/ ₄ | 30 50 | 9 15 | 75024 75024 | 85516 85516 | 740 740 | 81387 81387 | 12957(2) 12957(2) |

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^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Low pressure reels and assemblies – basic air, water* less hose end control

| Basic reel | Bare reel | Delivery hose | Hose size Diameter | | | Connecting hose | Ball stop | Control valve or meter |
|--------------------------|-------------------------|---------------------------|---|----------------|----------------|---------------------------|-------------------------|------------------------|
| | | | in. | ft. | m | | | |
| 85232 85011 85002A | 82206 82206 82206 | 72360 72600 72480A | 1/4 1/4 3/8 | 30 50 40 | 9 15 12 | 72024 72024 72024A | 85515 85515 85516 | - - - |
| 85001 85012 85005 | 82206 82206 82206 | 72600A 72720A 74480 | 3/ ₈ 3/ ₈ 1/ ₂ | 50 60 40 | 15 18 12 | 72024A 72024A 74024 | 85516 85516 85517 | - - - |
| 85010-50 | 82206 | 74600 | 1/2 | 50 | 15 | 74024 | 85517 | - |

^{*} See pages 57-65 for meter, valve, or air coupler options for end of delivery hose.

Complete medium pressure assemblies - gear lube

| Basic reel | Bare reel | Delivery hose | Hose size Diameter | Length | | Connecting hose | Ball stop | Control valve or meter |
|----------------|----------------|----------------|------------------------------------|----------|----------|-----------------|----------------|------------------------|
| | | | in. | ft. | m | | | |
| 85053 85055 | 82206 82206 | 73600 73600 | 1/ ₂ 1/ ₂ | 50 50 | 15 15 | 73024 73024 | 85517 85517 | 780 878 (meter) |

Complete medium pressure assemblies - oils

| Basic reel | Bare reel | Delivery hose | Hose size Diameter Length | | th | Connecting hose | Ball stop | Control valve or meter |
|-------------------------|-------------------------|-------------------------|---|----------------|--------------|-------------------------|-------------------------|--|
| | | | in. | ft. | m | | | |
| 85056 85057 85058 | 82206 82206 82206 | 73360 73600 73360 | 1/ ₂ 1/ ₂ 1/ ₂ | 30 50 30 | 9 15 9 | 73024 73024 73024 | 85517 85517 85517 | 877 (meter) 877 (meter) 3866 (meter) |
| 85059 | 82206 | 73600 | 1/2 | 50 | 15 | 73024 | 85517 | 3866 (meter) |



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Model 85065

Complete medium pressure assemblies – oils (electrical/digital)

| Basic reel | Bare reel | Delivery hose | Hose size Diameter | Lengt | :h | Connecting hose | Ball stop | Control valve or meter |
|----------------|----------------|----------------|------------------------------------|----------|---------|-----------------|----------------|----------------------------|
| | | | in. | ft. | m | | | |
| 85060 85061 | 82206 82206 | 73360 73600 | 1/ ₂ 1/ ₂ | 30 50 | 9 15 | 73024 73024 | 85517 85517 | 967 (meter) 967 (meter) |

Complete low pressure assemblies – air service

| Assembly | Bare reel | Delivery | • | | | Included with reel assemblies Connecting hose Ball stop Air coupler | | | Air chuck | Bushing | |
|------------------|----------------|-----------------|------------------------------------|----------|-----------------|---|----------------|------------|----------------|----------------|----------------------|
| Teet | | 11030 | Diameter Length | | connecting nose | connecting nose ball stop A | | | CHUCK | | |
| | | | in. | ft. | m | | | | | | |
| 85062* 85063* | 82206 82206 | 72600 72600A | 1/ ₄ 3/ ₈ | 50 50 | 15 15 | 74024 74024 | 85515 85516 | 815 815 | 11659 11659 | 66951 66951 | 12080 67069/10049 |

^{*} AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Complete low pressure assemblies - water service

| Assembly | Bare reel | Delivery hose | Included v Hose size Diameter | | | emblies Connecting hose | Ball stop | Bushing | Bibbcock |
|------------------|----------------|-----------------|---|----------|----------|----------------------------|----------------|----------------------|------------|
| | | | in. | ft. | m | | | | |
| 85064* 85065* | 82206 82206 | 72600 72600A | 1/ ₄ 3/ ₈ | 50 50 | 15 15 | 74024 74024 | 85515 85516 | 12080 67069/10049 | 846 846 |

^{*▲}WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov







High-flow reels and ball stops

Extra-heavy-duty reels for applications that require high product flow and/or longer hose such as service trucks, lube trucks, transit facilities and large fleet shops.

Model 84275

Extra-heavy-duty dual reel sheave support base design and large hose capacity make this 1/2 in. inlet/outlet reel the ideal high-pressure reel for grease, petroleum oils, air and water.

Model 84672

Extra-heavy-duty high flow design makes this ³/₄ in. inlet/outlet reel the perfect medium-pressure reel for petroleum oils, used fluid evacuation, air and water service.

Model 84673

Extra-heavy-duty dual reel sheave support base, high flow design and large hose capacity make this ³/₄ in. inlet/outlet reel the ideal medium-pressure reel for petroleum oils, used fluid evacuation, air and water service.

High-flow series reels

| Model | Designation | Hose capacity Type | Size | | Inlet size NPT (f) | Pressu Workin | | Shea Width | | Install Width | ation size | Depth | |
|-------|--|---|----------------|----------------------|---|-------------------------|-------------------|---|-------------------|---|-------------------|--|-------------------|
| | | in. | ft. | m | in. | psi | bar | in. | mm | in. | mm | in. | mm |
| 84275 | Extra-heavy- duty large capacity | 78 75/76A/76B 73 | 75 75 75 | 22,9 22,9 22,9 | 1/ ₂ 1/ ₂ 1/ ₂ | 5 000 5 000 5 000 | 340 340 340 | 10 10 10 | 254 254 254 | 13 ½ 13 ½ 13 ½ 13 ½ | 333 333 333 | 12 ³ / ₄ 12 ³ / ₄ 12 ³ / ₄ | 324 324 324 |
| 84672 | Extra-heavy- duty high-flow | ³ / ₄ ID x 1 ¹ / ₄ 0D 73 74 | 30 50 50 | 9,1 15,2 15,2 | 3/ ₄ 3/ ₄ 3/ ₄ | 2 000 2 000 2 000 | 138 138 138 | 5 ¹ / ₂ 5 ¹ / ₂ 5 ¹ / ₂ | 140 140 140 | 9 ¹⁵ / ₁₆ 9 ¹⁵ / ₁₆ 9 ¹⁵ / ₁₆ | 252 252 252 | 12 ³ / ₄ 12 ³ / ₄ 12 ³ / ₄ | 324 324 324 |
| 84673 | Large capacity | ³ / ₄ ID x 1 ¹ / ₄ OD 78 | 75 75 | 22,9 22,9 | 3/ ₄ 3/ ₄ | 2 000 2 000 | 138 138 | 10 10 | 254 254 | 14 ½ 14 ½ | 368 368 | 12 ³ / ₄ 12 ³ / ₄ | 324 324 |
| 84432 | Heavy-duty volume | 1 OD low pressure | 50 | 15,2 | 1 | 300 | 21 | 8 | 203 | 15 3/4 | 400 | 24 1/4 | 616 |
| 89010 | Super-duty high-flow | $1^{1/4}$ ID x $1^{3/4}$ OD low pressure | 50 | 15,2 | 1 1/4 | 500 | 35 | - | - | 22 ¹ / ₈ | 562 | 26 ¹ / ₄ | 667 |



SKF

Model 84432

Dual reel sheave support base design and high-flow swivel make this 1 in. inlet/outlet reel the ideal low-pressure/volume reel. This reel is suitable for gasoline, diesel fuel, fuel oil, air and water. Not suitable for ceiling or wall mounted applications.

Model 84433

1 in. \times 50 ft. (15,24 m) volume fuel reel assembly comes complete with spring-powered reel model 84432, 1 in. \times 50 ft. (15,24 m) delivery hose model 247926 (1 in. NPT thread), ball stop model 84257 and 1 in. \times 2 ft. (0,6 m) connecting hose model 247925. Order control valve/nozzle separately.





High-flow reel assemblies

| Basic reel | Bare reel | Delivery hose | Hose size | Ball stop | Control valve or meter |
|------------|-----------|---------------|-------------------------|-----------|------------------------|
| 84433 | 84432 | 247926 | 1 in. x 50 ft. (15,2 m) | 84257 | Order separately |

Recommended mounting and application

| Bare reel | Mounting | Application |
|-----------|----------------------------------|---|
| 84275 | Floor, wall, ceiling, lube truck | Grease, oils, air |
| 84672 | Floor, wall, ceiling, lube truck | Oils, used fluid evacuation, air, water |
| 84673 | Floor, wall, ceiling, lube truck | Oils, used fluid evacuation, air, water |
| 84432 | Floor, platform, lube truck | Fuel, volume oils, used fluid evac., air, water |

Lincoln high-, medium- and low-pressure hoses every size for every application

High-pressure hose - grease

| Model | Size | | Hose type | ID | OD | Thread size | Model | Size | | Hose type | ID | OD | Thre |
|--|---|---|---|--|---|--|--|--------------------------------------|--|---|---|---|--|
| | ft. | m | | in. | in. | in. | | ft. | m | | in. | in. | in. |
| 75024 1) 75060 1) 75084 1) 75120 1) 75168 1) 75240 1) 75360 1) 75480 1) 75600 1) | 2 5 7 10 14 20 30 40 50 | 0,6 1,5 2,1 3,0 4,3 6,1 9,1 12,2 15,2 | 75/100R2A 75/100R2A 75/100R2A 75/100R2A 75/100R2A 75/100R2A 75/100R2A 75/100R2A 75/100R2A | 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 | 11/16 11/16 11/16 11/16 11/16 11/16 11/16 11/16 11/16 | 1/2 - 27 (f) 1/2 - 27 (f) | 76024B ²⁾ 76120B ²⁾ 76360B ²⁾ 76600B ²⁾ 76900B ²⁾ 76024A ²⁾ | 2 10 30 50 75 2 50 | 0,6 3,0 9,1 15,2 22,9 0,6 15,2 | 76B/100R2 76B/100R2 76B/100R2 76B/100R2 76B/100R2 76B/100R2 76B/100R2 | 3/8 3/8 3/8 3/8 3/8 1/2 1/2 | 27/ ₃₂ 27/ ₃₂ 27/ ₃₂ 27/ ₃₂ 27/ ₃₂ 27/ ₃₂ 27/ ₃₂ | 1/2 NP 1/2 NP 1/2 NP 1/2 NP 1/2 NP 1/2 NP 1/2 NP |

¹⁾ Maximum working pressure 5 000 psi (345 bar)

Medium-pressure hose - oil, gear lube and antifreeze

| Model | Size | : | Hose type | ID | OD | Thread size | Model | Size | | Hose type | ID | OD | Thread size |
|--|-------------------------------|--|--|--|--|--|---|----------------------------|-------------------------------------|--|---|---|--|
| | ft. | m | | in. | in. | in. | | ft. | m | | in. | in. | in. |
| 73024 73036 73060 73120 73240 73360 | 2 3 5 10 20 30 | 0,6 0,9 1,5 3,0 6,1 9,1 | 73/100R3 73/100R3 73/100R3 73/100R3 73/100R3 73/100R3 | 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ | 13/16 13/16 13/16 13/16 13/16 13/16 | 1/2 NPT (m) 1/2 NPT (m) 1/2 NPT (m) 1/2 NPT (m) 1/2 NPT (m) 1/2 NPT (m) | 73480 73600 73720 73900 1230120 | 40 50 60 75 10 | 12,2 15,2 18,3 22,9 3,0 | 73/100R3 73/100R3 73/100R3 73/100R3 1230/100R2 | 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ 3/ ₄ | 13/ ₁₆ 13/ ₁₆ 13/ ₁₆ 13/ ₁₆ 13/ ₁₆ 1 1/ ₄ | 1/2 NPT (m) 1/2 NPT (m) 1/2 NPT (m) 1/2 NPT (m) 1/2 NPT (m) 3/4 NPT (m) |

Maximum working pressure 1 500 psi (103 bar). Model 1230120 maximum working pressure 2 250 psi (155 bar).

Low-pressure hose - air and water

| Model | Size | | ID | OD | Thread size | Model | Size | | ID | OD | Thread size |
|--------|------|------|-----|-------|-------------------------------------|---------|------|------|-----|-------|-------------|
| | ft. | m | in. | in. | in. | _ | ft. | m | in. | in. | in. |
| 72024 | 2 | 0,6 | 1/4 | 5/8 | 1/4 NPT (m) | 72600A | 50 | 15,2 | 3/8 | 23/32 | 3/8 NPT (m) |
| 72036 | 3 | 0,9 | 1/4 | 5/8 | 1/4 NPT (m) | 72720A | 75 | 22,9 | 3/8 | 23/32 | 3/8 NPT (m) |
| 72060 | 5 | 1,5 | 1/4 | 5/8 | ¹ / ₄ NPT (m) | 72900A | 75 | 22,9 | 3/8 | 23/32 | 3/8 NPT (m) |
| 72120 | 10 | 3,0 | 1/4 | 5/8 | ¹ / ₄ NPT (m) | 74024 | 2 | 0,6 | 1/2 | 27/32 | 1/2 NPT (m) |
| 72240 | 20 | 6,1 | 1/4 | 5/8 | ¹ / ₄ NPT (m) | 74060 | 5 | 1,5 | 1/2 | 27/32 | 1/2 NPT (m) |
| 72360 | 30 | 9,1 | 1/4 | 5/8 | ¹ / ₄ NPT (m) | 74480 | 40 | 12,2 | 1/2 | 27/32 | 1/2 NPT (m) |
| 72600 | 50 | 15,2 | 1/4 | 5/8 | 1/4 NPT (m) | 74600 | 50 | 15,2 | 1/2 | 27/32 | 1/2 NPT (m) |
| 72024A | 2 | 0,6 | 3/8 | 23/32 | ³ / ₈ NPT (m) | 74900 | 75 | 22,9 | 1/2 | 7/8 | 1/2 NPT (m) |
| 72360A | 30 | 9,1 | 3/8 | 23/32 | 3/8 NPT (m) | 278749* | 50 | 15,2 | 3/8 | 23/32 | 1/4 NPT (m) |
| 72480A | 40 | 12,2 | 3/8 | 23/32 | 3/8 NPT (m) | 278752* | 50 | 15,2 | 1/2 | 27/32 | 1/2 NPT (m) |

Maximum working pressure 300 psi (21 bar).

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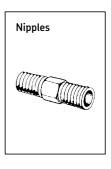
²⁾ Maximum working pressure 4 000 psi (276 bar)

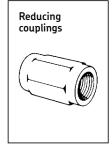
^{*}**△WARNING** California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Nipples, couplers and bushings for Lincoln 75 grease hose

| Bushings | | Reducing co | uplings |
|--|--|-------------------------------------|---|
| Model | Thread size | Model | Thread size |
| | in. | | in. |
| 10200* 10204* 12287 | ¹ / ₈ NPT (f) × ¹ / ₂ – 27 (m) ¹ / ₄ NPT (f) × ¹ / ₂ – 27 (m) ¹ / ₂ – 27 (f) × ¹ / ₂ NPT (m) | 11852 10522* 67171 | ¹ / ₈ NPT (f) × ¹ / ₂ – 27 (f) ¹ / ₄ NPT (f) × ¹ / ₂ – 27 (f) ³ / ₄ NPT (m) × ¹ / ₂ NPT (f) |
| Nipples | | Lincoln high cross refere | -pressure replacement hose – nce |
| Model | Thread size | Model | Size |
| | in. | | in. |
| 10198* 10199* 10202* 12957 11197 | 1/4 NPT (m) x 1/2 - 27 (m) 1/8 NPT (m) x 1/2 - 27 (m) 1/2 - 27 (m) x 1/2 - 27 (m) 1/2 NPT (m) x 1/2 - 27 (m) 1/2 NPT (m) x 1/2 NPT (m) | Alemite Aro Balcrank Graco | 1/2 – 27 (f) × 1/2 – 27 (f) 1/8 NPT (m) × 1/8 NPT (f) 1/8 NPT (m) × 1/8 NPT (f) 1/4 NPT (m) × 1/4 NPT (m) |

Reducing bushing





Ball stops

Lincoln ball stops are used to cushion and stop hose retraction.

Ball stops

| Model | Description | Hose type | OD | |
|--|--|---|--|--|
| | | | in. | |
| 85515 85516 85517 84347 84122 84257 | Adjustable Adjustable ball stop Adjustable Adjustable Adjustable Adjustable | RMA Class A RMA Class A and 74 73, 74, 76A and 76B 78 and 78B – | 5/8 11/16 to 23/32 27/32 to 31/32 11/32 1 3/4 to 1 7/8 1 1/2 to 1 5/8 | |



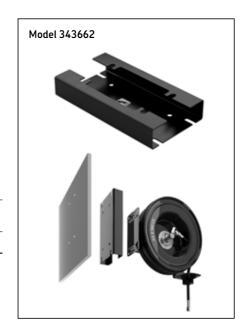
Alemite reel mount adapter

The Alemite reel mount adapter converts the mounting hole pattern of the Lincoln reel to accept an equivalent Alemite reel, facilitating the replacement of Lincoln heavy-duty fluid (LFR) reels with Alemite heavy-duty or severe-duty reels.

- Installs in place of Lincoln 94000 series LFR reel
- Alemite heavy-duty and severe-duty reels install direct to adapter
- Holds replacement reel secure while hardware is installed
- Formed from heavy-gauge steel

Reel mount adapter

| Model | Description | Size (L × W × H) | Packag | ed weight | |
|--------|--------------------|------------------|------------------|-----------|-----|
| | | in. | cm | lbs | kg |
| 343662 | Reel mount adapter | 12.8 × 6.9 ×2.1 | 32,5 × 17,5 ×5,3 | 5.5 | 2,5 |



^{*} WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Decorative hose reels

Lincoln's plastic decorative overhead hose reel cabinets are constructed of a light-weight, durable resin. This design offers dramatically reduced installation time and ease of maintenance. The modular design eliminates reel enclosure end panels. Plastic decorative cabinet models are dent and scratch resistant, non-conductive and non-corrosive.

Model 85641 universal mounting kit

Universal mounting kit allows installation of up to twelve reels, any series, open or decorative. Twelve reels can be installed side by side with this kit or cut to fit your reel installation needs. Includes two mounting struts and hardware to mount 12 reels.

Plastic decorative reel cabinet

| Reel type | Cabinets (1 per reel) | Required mounting com Adapter plate kit (1 per reel bank) | ponents Mounting kit (1-12 reels) |
|-----------|--------------------------|---|---|
| LFR | 85640 | 85642 | 85641 |
| 82206 | 85240 | 85242 | 85641 |

Metal decorative reel cabinet

| Reel type | Required mounting cor Adapter plate kit (1 per reel bank) | nponents Mounting kit (1-12 reels) | |
|-----------|---|--|--|
| LFR | 85642 | 85641 | |
| 82206 | none needed | 85641 | |



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Series 3100 heavy-duty, plastic decorative, 30 ft. (9 m)

| Model | Description | Bare reel | Delivery | hose | Connecting hose | Ball stop | Control valve or meter | Swivel | Coupler | Nipple |
|-----------------------|---|-------------------------|-------------------------|---|----------------------------------|-------------------------|------------------------|-------------|-------------|-------------|
| | | reet | Model | Diameter | nose | Stop | or meter | | | |
| | | | | in. | | | | | | |
| 3191 3189* 3194 | Grease with control valve and swivel Motor oil/antifreeze with electronic meter Motor oil/antifreeze with quarts meter | 82206 82206 82206 | 75360 73360 73360 | 1/ ₄ 1/ ₂ 1/ ₂ | 75024 73024 73024 | 85515 85517 85517 | 740 982 877 | 81387 - | - - | - |
| 3195 3196 3197 | Gear oil with pints meter Gear oil with control valve ATF with quarts ATF meter | 82206 82206 82206 | 73360 73360 73360 | 1/ ₂ 1/ ₂ 1/ ₂ | 73024 73024 73024 73024 | 85517 85517 85517 | 878 780 883 | - - - | - - - | - - - |
| 3193* 3192* | Air with air chuck Water with bibbcock, 30 ft. (9 m) hose | 82206 82206 | 72360 72360 | 1/ ₄ 1/ ₄ | 72024 72024 | 85515 85515 | 66951 846 | - - | 815 - | 11659 - |

^{*}**△WARNING** California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Series 3200 heavy-duty, plastic decorative, 50 ft. (15 m)

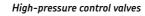
| Model | Description | Bare reel | | | Connecting hose | Ball | Control valve or meter | Swivel | Coupler | Nipple |
|-------------------------|---|-------------------------|---------------------------|---|---------------------------|-------------------------|------------------------|-------------|---------------|-----------------|
| | | reet | Model | Diameter | nose | stop | or meter | | | |
| | | | | in. | | | | | | |
| 3291 | Grease with control valve and swivel | 82206 | 75600 | 1/4 | 75024 | 85515 | 740 | 81387 | | |
| 3289* | Motor oil/antifreeze with electronic meter | 82206 | 73600 | 1/2 | 73024 | 85517 | 982 | - | _ | _ |
| 3294 | Motor oil/antifreeze with quarts meter | 82206 | 73600 | 1/2 | 73024 | 85517 | 877 | - | - | - |
| 3295 3296 3297 | Gear oil with pints meter Gear oil with control valve ATF with quarts ATF meter | 82206 82206 82206 | 73600 73600 73600 | 1/ ₂ 1/ ₂ 1/ ₂ | 73024 73024 73024 | 85517 85517 85517 | 878 780 883 | - - - | - - 815 | - - 11659 |
| 3198* 3199* 3190* | Air with air chuck Air with air chuck Water with bibbcock | 82206 82206 82206 | 72600 72600A 72600A | 1/ ₄ 3/ ₈ 3/ ₈ | 72024 72024A 72024A | 85515 85516 85516 | 66951 66951 846 | _ _ _ | 815 - - | 11659 - - |

^{*△}WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Control valves, meters and accessories

| Control valves | 127 |
|-----------------------------|-----|
| Dispense meters | 130 |
| Fluid lubricant accessories | 132 |
| Inline and volume meters | 135 |
| Air and water controls | 137 |







Fluid lubricant control valves



Preset dispense meters



Non-metered control valves



Mechanical dispense meters



Digital dispense meters



Inline lube meters



Digital dispense meters

Control valves - grease

Lincoln control valves, meters and accessories provide the durability and precision you need for your lubrication systems.

Model 740 heavy-duty high-pressure

- 7 500 psi (517 bar) maximum operating pressure
- Precision-machined, all steel handle, body and guard bracket provides durability and longevity
- Unique, precision control inlet check valve provides ease of handle operation even with increase in pressure
- Knurled handle for positive grip
- Handy trigger guard prevents pinching
- Reversible inlet check seat and hydraulic jaws provide double life
- Balanced design reduces user fatigue
- Lubricant inlet ¹/₄ in. NPT (f); outlet ¹/₈ in. NPT (f)
- Easily repaired for extended life

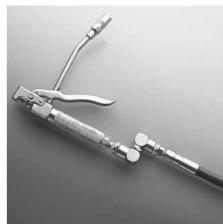
Model 3050 high-volume high-pressure

Same as 740 except with ³/8 in. NPT (f) lubricant inlet for use with Lincoln volume high-pressure swivels and hose.

Model 82157 repair parts kit

For control valves models 740 and 3050.





High-pressure grease control valves

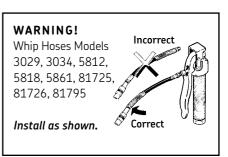
| Model | Description | Control valve | | Extension | Coupler |
|-------------|---|----------------|--|--------------------------|--------------|
| | | | in. | | |
| 740 3050 | Heavy-duty, high-pressure High-volume, high-pressure | 82393 81495 | ¹ / ₄ NPT (f) ³ / ₈ NPT (f) | Rigid tube Rigid tube | 5845 5845 |

Model 85021 kit

Consists of model 740 control valve and model 81387 universal "z" swivel.

Model 82158 repair kit

Repair parts kit for model 81387 standard universal swivel.



WARNING!

For safe and proper use, always consult instructions accompanying product. See Safety Warning Information for appropriate warnings.

Model 82399

Model 81974

Model 81387

High-pressure swivels

| Model | Description | Thread size |
|--------|-------------|--|
| | | in. |
| 81606* | Straight | $^{1}/_{8}$ NPT (f) x $^{1}/_{8}$ NPT (m) |
| 81703* | Straight | $^{1}/_{8}$ NPT (m) x $^{1}/_{8}$ NPT (m) |
| 82080 | Straight | $^{1}/_{2}$ - 27 (m) x $^{1}/_{2}$ - 27 (m) |
| 82399 | Straight | $^{1}/_{2}$ - 27 (m) x $^{1}/_{4}$ NPT (m) |
| 83938 | Straight | $^{1}/_{4}$ NPT (m) x $^{1}/_{4}$ NPT (m) |
| 81386 | 90° angle | $^{1}/_{2}$ – 27 (m) x $^{1}/_{8}$ NPT (m) |
| 81723 | 90° angle | $^{1}/_{8}$ NPT (m) x $^{1}/_{8}$ NPT (f) |
| 81974 | 90° angle | $^{1}/_{2}$ – 27 (m) x $^{1}/_{4}$ NPT (m) |
| 82251 | 90° angle | $^{1}/_{8}$ NPT (m) x $^{1}/_{8}$ NPT (m) |
| 81387 | Universal | ¹ / ₂ – 27 (m) x ¹ / ₄ NPT (m) |
| 82252 | Universal | ¹ / ₈ NPT (m) x ¹ / ₈ NPT (m) |
| 83594 | Universal | ¹ / ₄ NPT (m) x ¹ / ₄ NPT (m) |

^{*} Whip hose only; maximum pressure 4 500 psi (310 bar)

Volume high-pressure swivels

| Model | Description | Thread size |
|----------------|------------------------|--|
| | | in. |
| 81728 82072 | Straight Straight | ¹ / ₂ NPT (m) x ³ / ₈ NPT (m) ¹ / ₂ NPT (m) x ¹ / ₂ NPT (m) |
| 82087 | 90° angle | ¹ / ₂ NPT (m) x ¹ / ₂ NPT (m) |
| 81729 82073 | Universal Universal | ¹ / ₂ NPT (m) x ³ / ₈ NPT (m) ¹ / ₂ NPT (m) x ¹ / ₂ NPT (m) |

WARNING!

Material use: Lincoln swivels are to be used only to transport grease, oil and other lubricants and are designed only for these non-abrasive and noncorrosive purposes. Do not use with abrasive and corrosive materials such as sound-deadening materials which may contain limestone and mica particles. Transport of such materials causes rapid premature wear to critical swivel components and can cause failure of

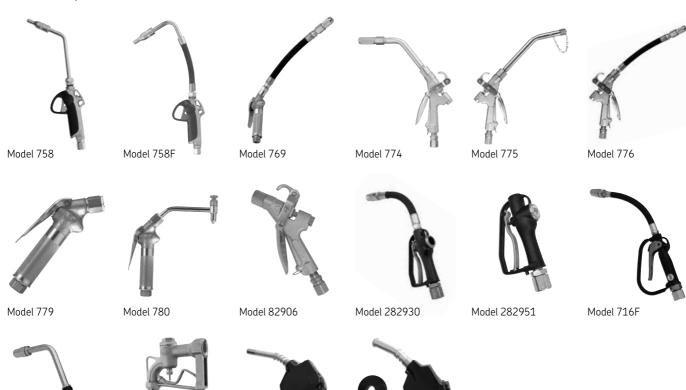
swivel. Failure could expose the user to severe bodily injury, permanent disfigurement or death.

Installation and service: Tighten all fluid connections securely before using swivel. Never exceed 7500 psi maximum operating pressure. Never alter or modify any part of the swivel. Never attempt to repair or disassemble the swivel while the system is pressurized. Never stop or deflect leaks with hand or body.

Medical attention: get medical attention immediately if exposed to high pressure fluids. Tell the attending physician what was injected.



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Non-metered control valves - fluid lubricants

Model 716R

Compatible fluids – engine oil, diesel oil, ATF and anti-freeze Models 69690, 69824 and 69825 compatible fluids – fuel

Model 69690

Model 69824

| Model | Inlet NPT (f) | Outlet NPT (f) | Extension Model | Туре | Tip | Maximu pressure | | Free deliv | 'ery |
|--------------------------|---|---|---------------------------|--|--|-------------------------|-------------------|-----------------|----------------|
| | in. | in. | | | | psi | bar | gal./min. | liter/min. |
| 758 758F 769 | 1/ ₂ 1/ ₂ 1/ ₂ | 1/ ₂ 1/ ₂ 1/ ₂ | 278078 278079 82642 | Rigid pipe Flex hose Flex hose | Auto with manual open/close Auto with manual open/close Manual | 1 000 1 000 1 000 | 69 69 69 | 7.5 7.5 5 | 28 28 19 |
| 774 775 776 | 1/ ₂ 1/ ₂ 1/ ₂ | 1/ ₂ 1/ ₂ 1/ ₂ | 273508 82932 82642 | Rigid pipe Rigid pipe Flex hose | Manual Cap Manual | 1 000 1 000 1 000 | 69 69 69 | 5 5 5 | 19 19 19 |
| 779 780 82906 | 1/ ₂ 1/ ₂ 1/ ₂ | 1/ ₂ 1/ ₂ 1/ ₂ | - 82070 - | – Rigid pipe – | – Manual – | 1 000 1 000 1 000 | 69 69 69 | 5 5 5 | 19 19 19 |
| 282930 282951 716F | 3/ ₄ 3/ ₄ 3/ ₄ | 3/ ₄ 3/ ₄ 1/ ₂ | - - 276281 | Flex hose Flex hose | Manual – Auto with manual close | 1 500 1 500 1 500 | 103 103 103 | 15 15 12 | 57 57 45 |
| 716R 59690 | 3/ ₄ 1 ¹ / ₄ | 1/ ₂ 1 ¹ / ₄ | 276283 - | Rigid pipe 9 in. Rigid pipe | Auto with manual close | 1 500 50 | 103 3,4 | 12 | 45 |
| 69824 | 3/4 | _ , , | - | ¹³ / ₁₆ in. O.D. rigid | SST tip | 50 | 3,4 | 17 | 64 |
| 59825 | 1 | - | - | $1^{3/_{16}} \times 7$ in. rigid | - | 50 | 3,4 | 60 | 227 |

Model 69825





Model 905

Preset dispense meters - digital

Compatible fluids, model 905 – petroleum and synthetic-based oils and antifreeze Compatible fluids, model 905SF – antifreeze mixture, windshield wiper solution and brake fluid Graduation on all models – pints, quarts, liters, gallons

| Model | Inlet NPT (f) | Outlet NPT (f) | Extension Model | Туре | Tip | Maximum pressure | | Free deliv | Free delivery | | |
|--------------|------------------------------------|------------------------------------|---------------------------|--------------------|--|---------------------|----------|------------|---------------|--|--|
| | in. | in. | | | | psi | bar | gal./min. | liter/min. | | |
| 905 905SF | 1/ ₂ 1/ ₂ | 1/ ₂ 1/ ₂ | 272391 273862 | Rigid Flex, 90° | Auto with manual open/close Auto with manual open/close | 1 000 1 000 | 69 69 | 5.0 5.0 | 19 19 | | |









Model 3866

Model 3867

Model 3868

Model 3942

Preset dispense meters - mechanical

Compatible fluids – petroleum and synthetic-based oils and antifreeze

| Model | Inlet NPT (f) | Outlet NPSI | Extension Model | Type | Tip | Maximu pressur | | Free deliv | ery | Graduation |
|------------------------------|--|--|----------------------------------|----------------------------------|--|----------------------------------|----------------|--------------------------|----------------------------------|--|
| | in. | in. | | | | psi | bar | gal./min. | liter/min. | |
| 3866 3867 3868 3942 | 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ | 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ | 93548 93548 93548 93548 | Rigid Rigid Rigid Rigid | Auto with manual open/close Auto with manual open/close Auto with manual open/close Auto with manual open/close | 1 000 1 000 1 000 1 000 | 69 69 69 | 4.0 4.0 4.0 4.0 | 15,14 15,14 15,14 15,14 | 16 quarts, 12 liters 60 quarts 60 gallons 60 liters |

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LINCOLN

SKF





Model 916ER

Dispense meters - digital

 $\label{lem:compatible} Compatible fluids-petroleum\ and\ synthetic-based\ oils\ and\ antifreeze\ Graduation\ on\ all\ models-pints/quarts/liters/gallons$

| Model | Inlet NPT (f) | Outlet NPT (f) | Extension Model | Туре | Tip | Maximi | ım pressure | Free deliv | ery |
|--------|------------------|-------------------|---------------------------|-----------|-----------------------------|--------|-------------|------------|------------|
| | in. | in. | | | | | bar | gal./min. | liter/min. |
| 947 | 1/2 | 1/2 | 85799 | Rigid | Auto | 1 500 | 103,4 | 4.0 | 15,14 |
| 967 | 1/2 | 1/2 | 82258 | Flex | Auto with manual open/close | 1 500 | 103,4 | 4.0 | 15,14 |
| 980 | 1/2 | 1/2 | 282843 | Flex/90° | Manual | 1 500 | 103,4 | 10.0 | 37,85 |
| 981 | 1/2 | 1/2 | 282842 | Rigid/30° | Auto | 1 500 | 103,4 | 10.0 | 37,85 |
| 982* | 1/2 | 1/2 | 82258 | Flex | Auto with manual open/close | 1 500 | 103,4 | 10.0 | 37,85 |
| 280690 | 3/4 | 1/2 | 276281 | Flexible | Auto with manual close | 1 500 | 103,4 | 15.0 | 56,78 |
| 916EF | 3/4 | 1/2 | 276281 | Flex | Auto with manual close | 1 500 | 103,4 | 12.0 | 45,42 |
| 916ER | 3/4 | 1/2 | 276283 | Rigid | Auto with manual close | 1 500 | 103,4 | 12.0 | 45,42 |



^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

















Model 899

Model 867

Model 68410

Dispense meters - mechanical

 $\label{lem:compatible} \mbox{Compatible fluids--petroleum and synthetic-based oils and antifreeze.}$

| Model | Inlet NPT (f) | Outlet NPT (f) | Extension Model | Туре | Tip | Maximu pressur | | Free deliv | very | Graduation | |
|-------------------|---|---|---------------------------|--|--|-------------------------|----------------|-------------------|-------------------------|----------------------------------|--|
| | in. | in. | | | | psi | bar | gal./min. | liter/min. | | |
| 867 | 1/2 | 1/2 | 245993 | 10 in. flex -1/4 in. | Auto with manual open/close | 1 000 | 69 | 4.0 | 15,14 | 16 gallons | |
| 876 | 1/2 | 1/2 | 261484 242749 (nozzle) | 4 in. rigid - ¹ / ₂ in. | Auto with manual open/close | 1 000 | 69 | 4.0 | 15,14 | 16 quarts | |
| 877 | 1/2 | 1/2 | 82258 | 10 in. flex -1/4 in. | Auto with manual open/close | 1 000 | 69 | 4.0 | 15,14 | 16 quarts | |
| 878 881 883 | 1/ ₂ 1/ ₂ 1/ ₂ | 1/ ₂ 1/ ₂ 1/ ₂ | 273862 272391 - | Flex/90 ° Flex/90 ° 20 in. flex -1/4 in. | Manual Manual Auto with manual open/close | 1 000 1 000 1 000 | 69 69 69 | 4.0 4.0 4.0 | 15,14 15,14 15,14 | 8 pints 10 liter 16 quarts | |
| 899 | 1/2 | 1/2 | 82258 | 10 in. flex -1/4 in. | Auto with manual open/close | 1 000 | 69 | 4.0 | 15,14 | 10 liter | |
| 68410 | 1/2 | 1/2 | - | _ | – | 1 000 | 69 | 4.0 | 15,14 | 16 quarts | |



Extensions

| Model | Inlet NPT | Extension Type | Tip |
|--------|-----------------------------|--------------------------|-----------------------------|
| | in. | турс | |
| 82070 | 1/ ₂ | Rigid pipe | Manual |
| 82258 | 1/ ₂ | Flex hose | Auto |
| 82642 | 1/ ₂ | Flex hose | Manual |
| 82932 | 1/ ₂ | Rigid pipe | Cap |
| 93548 | 1/ ₂ | Rigid $-\frac{1}{2}$ in. | Auto with manual open/close |
| 278079 | 1/ ₂ | Flex hose | Auto with manual open/close |
| 278078 | 1/ ₂ | Rigid pipe | Auto with manual open/close |
| 272391 | 1/ ₂ | Rigid–1/4 in. | Auto with manual open/close |
| 273508 | 1/ ₂ | Rigid pipe | Manual |
| 273862 | 1/ ₂ | Flex/90 ° | Auto with manual open/close |
| 276280 | 1/ ₂ | Flex hose | Auto |
| 276281 | 1/ ₂ | Flex hose | Auto with manual close |
| 276282 | 1/ ₂ | Rigid pipe | Auto |
| 276283 | 1/ ₂ | Rigid pipe | Auto with manual close |
| 276310 | 1/ ₂ | 90 ° flex extension | Auto |
| 282842 | ¹ / ₂ | Rigid/30 ° | Auto |
| 282843 | ¹ / ₂ | Flex/90 ° | Manual |















Model 84799

Model 85799

Model 93547

Model 277814

Model 261484

Model 242749





Model 280432

Model 13001

Tips and accessories

| Model | Description | Thread size | |
|----------------------------|---|---|--|
| | | in. | |
| 84799 85799 93547 | Semi-automatic non-drip nozzle assembly Semi-automatic non-drip nozzle assembly with 4 in. (102 mm) rigid extension Semi-automatic non-drip nozzle assembly | 1/ ₄ 1/ ₂ 1/ ₄ | |
| 277814 261484 242749 | Non-drip nozzle assembly Automatic non-drip nozzle assembly 4 in. (102 mm) pipe extension | 1/ ₂ 1/ ₂ 1/ ₂ | |
| 280433 280432 13001 | 12 in. (305 mm) flexible delivery hose Semi-automatic non-drip nozzle assembly $^3/_4$ in. NPTF female to $^1/_2$ in. NPTF male bushing adapter | 1/ ₂ 1/ ₂ – | |

Red Black Blue Yellow Green



Colored swivel guards

Attach these flexible swivel guards to separate meters to differentiate between fluids. Available in red (model 260374), black (model 260375), blue (model 260376), yellow (model 260377) and green (model 260378).

Meter accessories

Model 90464 swivel

Straight oil meter swivel, $\frac{1}{2}$ in. NPT (m) x $\frac{1}{2}$ in. NPT (f). Maximum working pressure: 1 000 psi (69 bar).

LINCOLN

134 **5KF**



Model 814

Model 962



Model 817

Model 963



Model 870

Model 964



Model 871

Model 2873



Model 873



Model 961





2222

0000



Inline lube meters

| Model Description | | n Total | | m pressure | Flowrate | | Graduation | Compatible fluids |
|-------------------|--------------------------------------|--------------|-------|------------|-------------|------------|-------------------------------------|--|
| | | | psi | bar | gal./min. | liter/min. | | |
| 814 | Digital - quarts, gallons, liters | 99999.9 | 1 000 | 70 | 0.26 to 8 | 1 to 30 | 0.01 | Engine oil, diesel oil, ATF and anti-freeze |
| 817 | Digital - quarts, | 99999.9 | 1 500 | 103 | 0.8 to 21.1 | 3 to 80 | 0.01 | Engine oil, diesel oil, ATF and anti-freeze |
| 870 | gallons, liters Pints totalizer | 8 pint | 1 000 | 70 | 0.4 to 4 | 1,5 to 15 | ¹ / ₄ pint | Engine oil, diesel oil, ATF and anti-freeze |
| 871 | Quarts totalizer | 4 quart | 1 000 | 70 | 0.4 to 4 | 1,5 to 15 | ¹ / ₄ quart | Engine oil, diesel oil, ATF |
| 873 | Liters totalizer | 10 liter | 1 000 | 70 | 0.4 to 4 | 1,5 to 15 | ¹ /10 liter | Engine oil, diesel oil, ATF and anti-freeze |
| 961 | High volume in gallons | 999.9 gallon | 50 | 3,45 | 6 to 38 | 23 to 144 | ¹ /10 gallon | Gasoline, diesel fuel, and light weight petroleum products |
| 962 | High volume in | 999.9 gallon | 1 000 | 70 | 4 to 40 | 15 to 151 | ¹ / ₁₀ gallon | Oils and ATFs up to SAE 40 weight |
| 963 | High volume in liter | 999.9 liter | 1 000 | 70 | 4 to 30 | 15 to 115 | ¹ / ₁₀ liter | Oils and ATFs up to SAE 40 weight |
| 964 | High volume in liter | 999.9 liter | 50 | 3,45 | 6 to 38 | 22 to 144 | ¹ /10 liter | Gasoline, diesel fuel, and light weight petroleum products |
| 2873 | Liters dial | 4 liter | 1 000 | 70 | 0.4 to 4 | 1,5 to 15 | ¹ / ₁₀ liter | Engine oil, diesel oil, ATF |
| 236595 | Pints dial | 8 pint | 1 000 | 70 | 0.4 to 4 | 1,5 to 15 | ¹ / ₄ pint | Engine oil, diesel oil, ATF and anti-freeze |

 $\overline{\mbox{All meter models totalizing, except models 2873 and 236595}}$





Model 279149





Model 277539



Model 284194



Model 282925



Model 279147





Model 84458





Model 84460

Pulse output meters

85544: Compatible fluids - motor oils (SAE 5-50), gear oils (SAE 80-240), automatic transmission fluid, antifreeze (ethylene glycol)

85545: Compatible fluids – windshield wiper fluid and engine coolant 277539: Compatible fluids – DEF

Model 279150

284194: Compatible fluids – engine oil, diesel oil, automatic transmission fluid (maximum viscosity SAE 140), ethylene glycol based anti-freeze / anti-boil mixture (max. 50% water)

84458, 84459, 84460: Compatible fluids – engine oil, diesel oil, ATF, and anti-freeze

| Model | Description | Pulse rate | Maximu | m pressure | Flowrate | | Port NPT | |
|--------------------------|---|---|-----------------------|------------------|-------------------------------------|-------------------------------------|--|--|
| | | | psi | bar | gal./min. | liter/min. | in. | |
| 85544 85545 277539 | 1/2 in. pulse meter 1/2 in. pulse meter 1/2 in. DEF meter | 95 pulses/quart 95 pulses/quart 95 pulses/quart | 1 500 1 500 145 | 103 103 10 | 0.25 to 8 0.25 to 8 0.25 to 8 | 0,9 to 30 0,9 to 30 0,9 to 30 | 1/ ₂ 1/ ₂ 1/ ₂ BSPP | |
| 284194 279147 | ³ / ₄ in. pulse meter 1 in. pulse meter | 206.5 pulses/gallon 136.3 pulses/gallon 36 pulses/liter | 1 500 2 000 | 103 138 | 0.8 to 21.1 1.6 to 32 | 3 to 80 6 to 120 | ³ / ₄ 1 | |
| 279149 | $1^{1/2}$ in. pulse meter | 54.9 pulses/gallon 14,5 pulses/liter | 1 200 | 83 | 2.64 to 66 | 10 to 250 | 1 ¹ / ₂ | |
| 279150 | 2 in. pulse meter | 25.3 pulses/gallon 6.7 pulses/liter | 1 000 | 70 | 4 to 130 | 15 to 500 | 2 | |
| 84458 84459 | ¹ / ₂ in. quarts meter ¹ / ₂ in. gallon meter | 1/10 graduation/quart 1/10 graduation/gallon | 1 000 1 000 | 70 70 | 4.5 4.5 | 17 17 | 1/ ₂ 1/ ₂ | |
| 84460 | ¹ / ₂ in. liter meter | ¹ /10 graduation/liter | 1 000 | 70 | 4.5 | 17 | 1/2 | |



SKF

Air and water controls

Blow guns

Model 840*

- Handy thumb-button design provides ease of operation
- Brass stem and synthetic packaging for service life
- Addition of air nipple permits quick connect or disconnect
- 1/4 in. NPT (f) inlet; 7/64 in. outlet diameter

Model 950*

- Same as model 840, except with air restricter
- Nozzle inlet maximum pressure 30 psi (2,1 bar) complies with Federal Safety Regulation 50-204.8 and OSHA 1910 242.B

Model 960*

- Light-weight cast aluminum pistol grip
- 1/4 in. NPT (f) inlet; 7/64 in. outlet diameter; height 5 3/4 in. (146 mm)
- Nozzle inlet maximum pressure 30 psi (2,1 bar) complies with Federal Safety Regulation 50-204.8 and OSHA 1910 242.B

Model 940*

- Same as model 960 less air restricter
- When used for large cleaning requirement or chip cleaning, regulated air pressure must not exceed federal recommended maximum

Model 5980*

- Thumb control provides comfort and ease of operation
- 1/4 in. NPT (f) inlet; 1/8 in. NPT (f) outlet

Air and water accessories

Model 846 water bibbcock

For attaching to water service hose.

- 1/4 in. NPT (f) inlet
- Thumb-action trigger. Built-in strainer filters out contaminants.

Model 845 water bibbcock

Same as model 846 except $^{3}/_{4} - 11$ $^{1}/_{2}$ in. AN inlet connects to standard lawn hose.







*∆ WARNING

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Air/water accessories

| Model | Description | Style |
|--------|---|--------------------------------|
| | in. | |
| 815 | ¹ / ₄ (f) air coupler | Lincoln "long stem" |
| 845* | ³ / ₄ – 11 ¹ / ₂ AN inlet | Connects to standard lawn hose |
| 846* | ¹ / ₄ (f) water bibbcock | Low-pressure water |
| 11659 | ½ (m) air nipple | Lincoln "long stem" |
| 66951* | ¼ (f) tire chuck | Standard tire chuck |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Bulk oil, diesel exhaust fluid (DEF) packages

| Diesel exhaust fluid (DEF) equipment | 139 |
|--------------------------------------|-----|
| Accessories | 140 |



Model 85623



Model 85700-50

Diesel exhaust fluid (DEF) equipment

Lincoln's heavy-duty answer to the EPA's new emission regulations

Hose reels

- DEF-specific reels are smaller and easier to operate
- Designed for versatile installation options
- Steel reel with stainless steel fluid paths

Air-operated diaphragm pump

- Environmentally friendly no motors, seals or packing to leak
- Self-priming

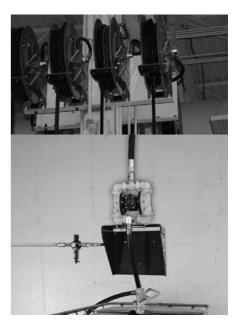
Transfer pumps

Model 1390 manual barrel pump

- DEF (diesel exhaust fluid) compatible
- Transfers popular shop fluids including acetone, antifreeze, windshield washer, thinners, and much more
- Includes NPT and buttress threads for steel and plastic drums
- Adjustable bung type fits 15-, 16-, 30and 55-gallon drums
- Welded ground-post for safe dispensing of volatile fluids
- Premium-grade 316 stainless steel
- Easy fluid control; no splashing
- Self-priming
- Meets CA Proposition 65 and EU REACH standards

Model 1392 lever-action DEF transfer pump

- DEF (diesel exhaust fluid) compatible
- Locking ring enables optimal pump positioning
- Nozzle hanger keeps hose within reach and off the floor
- Designed for automotive, trucking, agriculture and construction applications
- Transfers bulk fluid to smaller DEF containers or directly into vehicle reservoirs
- Self-priming pump unit













| Model | Description |
|--------------------------------|--|
| 85700-30 85700-50 277265 | $^{1}/_{2}$ in. x 30 ft. (9,2 m) DEF hose on reel $^{1}/_{2}$ in. x 50 ft. (15,2 m) DEF hose on reel $^{1}/_{2}$ in. x 2 ft. (0,6 m) reel inlet hose with $^{1}/_{2}$ in. BSPP threads |
| 277266 277267 | $^{1}/_{2}$ in. x 30 ft. (9,2 m) hose with $^{1}/_{2}$ in. BSPP threads $^{1}/_{2}$ in. x 50 ft. (15,2 m) hose with $^{1}/_{2}$ in. BSPP threads |



Meters and dispense valves

Model 277255 stainless steel automatic nozzle

- 3/4 in. BSPP threads
- 50 psi (3,4 bar) maximum pressure

Model 277256 DEF meter

- 2 to 20 gallon/min. (7 to 75 liter/min.) flow range
- ± 0.5% accuracy
- 3/4 in. female BSPP inlet/outlet
- Maximum pressure 120 psi (8,3 bar)
- LCD display



Accessories

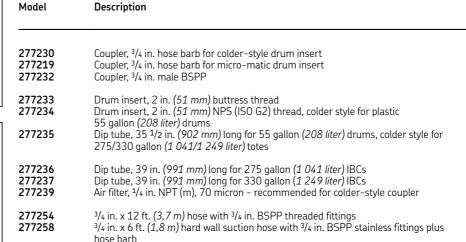
- Couplers
 - Disposable drums and totes
 - Returnable drums and totes
 - 3/4 in. BSPP female threads
- Dip tubes
 - Drums
 - 275 gallon (1 041 liter) totes
 - 330 gallon (1 249 liter) totes





Accessories

277633277635



SKF

 $\frac{1}{2}$ in. x 5 ft. (1,5 m) hose with $\frac{1}{2}$ in. BSPP threads

3/4 in. x 6 ft. (1,8 m) suction hose with hose barb





LINCOLN 140

Portable used fluid handling equipment and fuel caddies

| Collection equipment – pressurized (self-evacuating) 14 Upright drains | 42 |
|--|----------------|
| Collection and transfer equipment – pump-assist14Upright drains14Fluid evacuator14Truck drains15Pit drains15Diaphragm pump evacuation kits15 | 47 49 51 |
| Collection equipment – general15Fluid evacuator15Pedestal drain15Drum drains16 | 57 58 |
| Lube trolley package | 62 |
| Fuel transfer pump10 | 63 |
| Fuel caddies 14 | 6/ |





Pressurized, self-evacuating drains

Pump-assist fluid evacuators



Low-profile truck drains



Low capacity drains



Lube trolley package



Fuel caddies



Used fluid collection equipment – pressurized (self-evacuating)

Pressurized (self-evacuating) used fluid collection equipment is common in many automotive service shops because the reservoirs can be evacuated quickly and cleanly without the need for external pumps or fluid transfer systems. When a reservoir is full, it's typically rolled to a bulk storage access point, where compressed air is used to force the fluid out under pressure. All Lincoln self-evacuating models have a built-in regulator that reduces shopair pressure down to a safe level for evacuation as well as a backup safety valve to prevent over pressurization.

Model 3635 24 gallon (90 liter) used fluid drain

Model 3635 has a portable upright configuration commonly used for collecting fluids under lift-mounted vehicles. It offers a 15 in. (381 mm) offset funnel that includes a removable filter screen and wide-mouth extension that increases the diameter to 24 in. (610 mm). Height is adjustable from 51 to 76 in. (1,3 to 1,9 m), not including the extension.

Features and accessories include:

- Convenient tool tray for storing tools and drain plugs
- 7 ft. (2,1 m) nylon-reinforced discharge hose with steel J-hook and tethered drip
- Tank-mounted clip and handle hook to secure discharge hose
- Safety valve to prevent over-pressurization
- Combination air chuck/pressure relief valve
- Built-in fluid level sight gauge



Upright drains

Upright drains have a portable configuration commonly used for collecting fluids under lift-mounted vehicles. All models feature a height-adjustable collection bowl and large reservoir with capacity for multiple fluid changes. A combination of two ball-bearing swivel casters and two fixed-axle wheels makes them portable and easy to maneuver. Once full, they can be rolled to a bulk storage location, where compressed-shopair is all that's required to evacuate the reservoir.

Features:

- Standard shopair connection fitting
- Preset pressure regulator reduces inlet
- Wire reinforced dispense hose with J-hook nozzle
- Volume level sight tube indicates fluid level in reservoir
- Height-adjustable telescoping bowl
- Safety relief valve prevents over-pressurization
- Screen prevents debris from entering reservoir

SKF 142



3639 24 gallon (90 liter) combination used fluid drain and evacuator

Model 3639 combination used fluid drain and evacuator combines the features of the 3635 drain and 3637 evacuator into a single unit, giving operators the choice to collect fluids by gravity from lift-mounted vehicles or using a venturi to extract fluids directly from reservoirs or through a dipstick tube.

Features and accessories include:

- Convenient tool tray for storing tools and drain plugs
- 7 ft. (2,1 m) nylon-reinforced discharge hose with steel J-hook and tethered drip plug
- 6 1/2 ft. (2 m) wire-reinforced evacuation hose with shut-off valve and tethered drip plug
- Venturi vacuum assembly with vacuum level gauge, noise reducing muffler and shut-off valve with Milton M-style quickconnect air fitting
- Mercedes, BMW and VW dipstick tube adapters and six evacuation wands of varying flexibility, diameter and length
- Tank-mounted clip and handle hook to secure discharge and evacuation hoses
- Safety valve to prevent over-pressurization
- Combination air chuck/pressure relief valve
- Built-in fluid level sight gauge

Model 3637 24 gallon (90 liter) fluid evacuator

Model 3637 features a stable tank design with two ball-bearing swivel casters and two fixed-axle wheels. It also includes a tool tray and tank-mounted clip for securing the discharge hose when not in use. Four flexible and two rigid wands are included, as well as dipstick tube adapters for BMW and Volk-swagen brand vehicles.

Features

- 7 ft. (2,1 m) nylon-reinforced discharge hose with steel J-hook and tethered drip plua
- 6 ¹/₂ ft. (2 m) wire-reinforced evacuation hose with shut-off valve and tethered drip plug
- Safety valve to prevent ver-pressurization
- Combination air chuck/pressure relief valve
- Built-in fluid-level sight gauge





Self-evacuating upright drain technical data

 Model
 3635*
 3639*
 3637*

 Capacity
 24 gal. (90 liter)
 24 gal. (90 liter)
 24 gal. (90 liter)

 Bowl diameter
 15 in. (381 mm)

 Bowl configuration
 Offset
 Offset

 Reservoir material
 Steel
 Steel
 Steel

 Front wheels (qty. 2) – swivel casters
 4 in. (102 mm)
 4 in. (102 mm)
 4 in. (102 mm)

 Rear wheels (qty. 2) – fixed-axle
 6 in. (152 mm)
 6 in. (152 mm)
 6 in. (152 mm)

 Maximum height
 76 in. (1 930 mm)
 76 in. (1 930 mm)

 Size
 22 x 22 x 43.3 in.
 22 x 22 x 43.3 in.
 18 x 18 x 34 in.

 (560 x 560 x 1 100 mm)
 (560 x 560 x 1 100 mm)
 (460 x 460 x 890 mm)

51 in. (1 295 mm)

Minimum height

51 in. (1 295 mm)

^{*} WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov







LINCOLN

Model 3601* 18 gallon (68 liter) used fluid drain

Designed as an affordable option for used fluid collection, model 3601 features allsteel construction and a 14 in. (355,6 mm) diameter funnel. Height is adjustable from 45 to 72 in. (1 143 to 1 829 mm) and the unit maneuvers on two 3 in. (76,2 mm) ball-bearing swivel casters and two 6 in. (152,4 mm) fixed-axle wheels.

Model 3614* 20 gallon (75 liter) used fluid drain

Model 3614 features a stable, low-profile tank design and large 18 in. (457,2 mm) offset bowl with metal filter screen. For evacuation, the tank can be pressurized by connecting a standard shopair hose, or by using a simple tire chuck. The height is easily adjustable by loosening and tightening a friction-style lock-ring, and a special telescoping tube design eliminates the need to extend the bowl during evacuation.

Model 3624 26 gallon (98 liter) plastic pressurized used fluid drain

Model 3624 has a large 26 gallon (98 liter) reservoir molded from highstrength polyethylene for lighter weight, reduced corrosion, and lower risk of damage to surrounding vehicles. Large recesses for tool and filter storage are molded into the top and drain directly into the reservoir. The large 18 in. (457,2 mm) offset bowl includes a removable metal filter screen and secondary debris screen.

* ▲ WARNING

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Self-evacuating upright drain technical data 3601* 3614* 3624 18 gal. (68,14 liter) 14 in. (355,6 mm) 20 gal. (75,71 liter) 18 in. (457,2 mm) 26 gal. (98,42 liter) 18 in. (457,2 mm) Capacity Bowl diameter Offset Offset Bowl configuration Center mount Reservoir material Steel Steel Polyethylene Front wheels (qty. 2) – swivel casters Rear wheels (qty. 2) – fixed-axle 3 in. (76,2 mm) 4 in. (101,6 mm) 4 in. (101,6 mm) 6 in. (152,4 mm) 6 in. (152,4 mm) 40 in. (1 016 mm) 45 in. (1 143 mm) 72 in. (1 829 mm) 45 in. (1 143 mm) 71 in. (1 803 mm) 53 in. (1 346 mm) 79 in. (2 007 mm) Minimum height Maximum height Size 16 x 18 x 45 in. 18 x 28 x 45 in. 21 x 24 x 53 in. (457 x 711 x 1 143 mm) (406 x 457 x 1 143 mm) (533 x 610 x 1 346 mm)

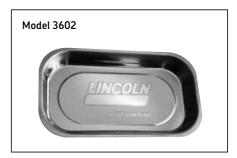
Optional accessories

| Model | Name | Description | Compatible models |
|--------|------------------------|---|--|
| 3610 | Funnel extension | Extends bowl diameter | 3601, 3614, 3624 |
| 278697 | Air regulator assembly | to 24 ½ in. (0,62 meter) Replaces air chuck valve to allow connection of shop air using a standard Milton M-style quick- change fitting | 613, 3644 3635, 3639 |
| 3602* | Magnetic tool tray | For use with metal drains to hold tools, small parts and fasteners | 3601, 3614, 3617, 3618, 3650, 3652, 3675, 3677 |

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Low-capacity drains

Low-capacity drains are available in 8 gallon (30 liter) or 18 gallon (68 liter) models with high-density polyethylene reservoirs. They have a portable upright configuration commonly used for collecting fluids under lift-mounted vehicles. Both models include an integrated oil filter drain shelf and funnel designed to include an added raised area to act as a splashguard. Both can be used with an optional cam-lock drainage kit for use with standard cam lock diaphragm pump systems.

Model 3518 18 gallon (68 liter) low-capacity drain

Complete drain kit including 18 gallon (68 liter) polythylene reservoir, drain bowl, drain spigot and a standard bung port and is adjustable from 40 to 77 in. (101 to 195 cm).

Model 3508 8 gallon (30 liter) low-capacity drain

Complete drain kit including 8 gallon (30 liter) polythylene reservoir, drain bowl and is adjustable from 36 to 65 in. (91 to 165 cm).

Features

- Available in two sizes
- Durable, polyethylene reservoir construction
- Splashguard to catch overspray
- Integrated oil filter drain shelf
- Multiple reservoir evacuation options
- Long-lasting casters for ease of movement



Low-capacity drain technical data

| Model | 3518 | 3508 |
|---------------------------------|--|--|
| Capacity | 18 gal. (68 <i>liter</i>) | 8 gal. (3 <i>0 liter</i>) |
| Bowl diameter | 17.5 in. (444.5 mm) | 17.5 in. (444. <i>5 mm</i>) |
| Reservoir included | Yes | Yes |
| Wheels (qty. 4) – swivel caster | 2.5 in. (63.5 mm) | 2.5 in. (63.5 mm) |
| Minimum height | 40 in. (1 016 mm) | 36 in. (914 mm) |
| Maximum height | 77 in. (1 956 mm) | 65 in. (1 651 mm) |
| Size tank | 16 × 15 × 22 in. (406 × 381 × 559 mm) | 13 × 14 × 16 in. (330 × 356 × 406 mm) |





Optional accessories

| Model | Name | Description | Compatible models |
|----------------------------|--|--|--|
| 820036 820039 820015 | Tool caddy Cam lock drain kit Drain pan | Optional, sold separately Optional, sold separately Optional, sold separately. | 3608, 3618 3608, 3618 3608, 3618 |
| 820016 1340 G402 | 37.5 × 24.625 in. (<i>953 × 625 mm</i>) drain pan Hand pump Rotary pump | Optional, sold separately Optional, sold separately Optional, sold separately | 3608, 3618 3618 3618 |
| | | | |





LINCOLN 146 SKF

Used fluid collection and transfer equipment – pump-assist

Pump-assisted used fluid collection and transfer systems are ideal for large multibay shops and applications or environments where movement is restricted. In these situations, a strategically located diaphragm pump can be used to transfer fluids from the collection equipment to a remote storage location. This type of system reduces the risk of accidental spills and collisions, supports remote location of bulk storage tanks and increases productivity.

Upright drains

Portable upright drains are commonly used for collecting fluids under lift-mounted vehicles. All models feature a height-adjustable collection bowl and 20 gallon (75 liter) reservoir. A combination of two ball-bearing swivel casters and two fixed-axle wheels makes them portable and easy to maneuver. Pump-assist models feature a male camlock connector extending from the top of the reservoir for attaching to a diaphragm pump filter screen or other fluid transfer system.

Features

- 3/4 in. male camlock connection for connecting to fluid transfer system
- Volume-level sight tube
- Height-adjustable bowl
- Screen prevents debris from entering reservoir

Model 3626 26 gallon (98 liter) plastic used fluid drain

Model 3626 has a large 26 gallon (98 liter) reservoir molded from high-strength polyethylene for lighter weight, reduced corrosion, and lower risk of damage to surrounding vehicles. Large recesses for tool and filter storage are molded into the top and drain directly into the reservoir. The large 18 in. (457 mm) offset bowl includes a removable metal filter screen and secondary debris screen.

Model 3627 26 gallon (98 liter) plastic coolant drain

Model 3627 offers the same features as model 3626, except the bowl is painted green for clear visual identification of coolant.

Model 3618 20 gallon (75 liter) used fluid drain

Model 3618 features a stable, low-profile tank design and large 18 in. (457 mm) offset bowl with metal filter screen. Bowl height is easily adjustable by loosening and tightening a friction-style lock-ring, and a special telescoping tube design eliminates the need to extend the bowl during evacuation.

Model 3617 20 gallon (75 liter) coolant drain

Model 3617 offers the same features as model 3618, except the reservoir and bowl are painted green for clear visual identification of coolant.







Pump-assisted upright drain technical data

| rump-assisted uprignt drain technical data | | | | |
|--|---|---|--|--|
| Model | 3617 – coolant (green) 3618 – used oil (red) | 3626 – used oil (black) 3627 – coolant (green) | | |
| Capacity | 20 gal. (75,71 liter) | 26 gal. (98 <i>liter</i>) | | |
| Bowl diameter | 18 in. (457,2 mm) | 18 in. (45 <i>7,2 mm</i>) | | |
| Bowl configuration | Offset | Offset | | |
| Reservoir material | Steel | Polyethylene | | |
| Front wheels (qty. 2) – swivel casters | 4 in. (101,6 mm) | 4 in. (101,6 mm) | | |
| Rear wheels (qty. 2) – fixed-axle | 6 in. (152,4 mm) | 10 in. (254 mm) | | |
| Minimum height | 42 in. (1,067 meter) | 53 in. (1,346 meter) | | |
| Maximum height | 68 in. (1,727 meter) | 79 in. (2,007 meter) | | |
| Size | 18 x 28 x 42 in. (457 x 711 x 1 067 mm) | 26 x 22.4 x 42 in. (660 x 570 x 1 065 mm) | | |











Model 3610

Model 277208

Model 276411

Model 244390

Model 277090









Model 3602

Model 278802

Model 241408

Model 241409

Optional accessories

| Model | Name | Description | Compatible models |
|----------------------------|--|---|---|
| 3610 277208 276411 | Funnel extension Drain spigot Camlock coupler | Extends bowl diameter to 24 ½ in. (622,3 mm) Allows gravity drain from bottom of tank ³ /4 in. female camlock coupler x ³ /4 in. female NPT | 3617, 3618 3617, 3618 3617, 3618 |
| 244390* 277090 3602* | Dry-break coupler Camlock cap Magnetic tool tray | ³ /4 in. female dry-break coupler ³ /4 in. camlock cap with chain For use with metal drains to hold tools, small parts and fasteners | 3650 3617, 3618 3601, 3614, 3617, 3618, |
| 278802 | Rotary pump adapter | For use to replace the camlock evacuation connector with a rotary pump for transfering fluid in or out of the reservoir | 3650, 3652, 3675, 3677 3626, 3627 |
| 241408* 241409* | Coupler Nipple | f 1 in. NPT (f) coupler for use in volume transfer and evacuation systems $f 1$ in. NPT (f) nipple for use in volume transfer and evacuation systems | - |

Fluid evacuator

Evacuators utilize a powerful compressedair operated venturi vacuum for quick evacuation of fluid reservoirs. They are most commonly used to extract oil or transmission fluid directly through the dipstick tube, eliminating the need to lift a vehicle and reducing the risk of spills. Pump-assist models feature a male camlock connector extending from the top of the reservoir for attaching to a diaphragm pump or other fluid transfer system.

Model 3650 20 gallon (75 liter) fluid evacuator

Model 3650 features a stable, low-profile tank design with two ball-bearing swivel casters and two fixed-axle wheels. Three flexible and two rigid wands are included, as well as dipstick tube adapters for BMW, Mercedes and Volkswagen brand vehicles.

Features

- 3/4 in. male camlock connection for connecting to fluid transfer system
- 10 ft. (3 m) long wire-reinforced evacuation hose
- Volume-level sight tube
- Vacuum-level gauge



Fluid evacuator technical data

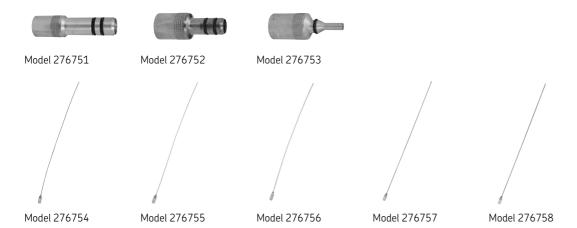
Model 3650

Capacity 20 gal. (75,71 liter) 150 psi (10 bar) Maximum air pressure 90 psi (6 bar) Minimum air pressure

Maximum fluid temperature 176 °F (80 °C) Reservoir material Steel Front wheels (qty. 2) - swivel casters 4 in. (101,6 mm)

Rear wheels (qty. 2) - fixed-axle

6 in. (152,4 mm) 18 x 28 x 36 in. (457 x 711 x 914 mm) Size



Standard accessories

| Model | Name | Compatible models |
|----------------------------|---|--|
| 276751 276752 276753 | Mercedes oil dipstick tube adapter BMW oil dipstick tube adapter Volkswagen oil dipstick tube adapter | 3650 3650 3650 |
| 276754 276755 276756 | 0.20 in. $(5 mm)$ diameter x 31 in. $(790 mm)$ long flexible extraction wand (red) 0.24 in. $(6 mm)$ diameter x 31 in. $(790 mm)$ long flexible extraction wand (clear) 0.31 in. $(8 mm)$ diameter x 31 in. $(790 mm)$ long flexible extraction wand (yellow) | 3650 3650 3650 |
| 276757 276758 278363 | 0.20 in. (5 mm) diameter x 31 in. (790 mm) long rigid extraction wand 0.24 in. (6 mm) diameter x 31 in. (790 mm) long rigid extraction wand 0.20 in. (5 mm) diameter x 28 in. (700 mm) long, rigid extraction wand | 3650 3650 3637, 3639 |
| 278364 278365 278366 | 0.23 in. (6 mm) diameter x 28 in. (700 mm) long, rigid extraction wand 0.20 in. (5 mm) diameter x 28 in. (700 mm) long, flexible extraction wand 0.23 in. (6 mm) diameter x 28 in. (700 mm) long, flexible extraction wand | 3637, 3639 3637, 3639 3637, 3639 |
| 278367 278368 278369 | 0.31 in. (8 mm) diameter x 28 in. (700 mm) long, flexible extraction wand 0.28 in. (7 mm) diameter x 39 in. (1 000 mm) long, flexible extraction wand BMW adapter | 3637, 3639 3637, 3639 3637, 3639 |
| 278370 | VW adapter | 3637, 3639 |











Model 3602

Model 277208 Model 276411

Model 244390 Model 278697

Optional accessories

| Model | Name | Description | Compatible models |
|-----------------------------|--|---|---|
| 277208 276411 244390* | Drain spigot Camlock coupler Dry-break coupler | Allows gravity drain from bottom of tank ³ / ₄ in. female camlock coupler x ³ / ₄ in. female NPT ³ / ₄ in. female dry-break coupler | 3650 3650 3650 |
| 278697 | Air regulator assembly | Replaces air chuck valve to allow connection of shop air | 3635, 3639 |
| 3602* | Magnetic tool tray | using a standard Milton M-style quick-change fitting For use with metal drains to hold tools, small parts and fasteners | 3601, 3614, 3617, 3618, 3650, 3652, 3675, 3677 |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Portable used fluid handling equipment – collection and transfer equipment, truck drains

Low-profile truck drains

Low-profile truck drains offer a low-profile design that can be easily positioned under high-clearance vehicles for capturing used fluids including motor oil, coolant and transmission fluid.

Features

- Low-profile design only 7 ³/₄ in. (197 mm) tall
- Large 20 x 29 in. (510 x 735 mm) recessed area for capturing fluid
- Removable metal screen keeps out parts and debris
- Recessed pockets at each corner provide storage for drain plugs and filters.

Model 3665 17 gallon (65 liter) truck drain

Features a 6 ft. (1,8 m) long discharge hose with a $^3/_4$ in. camlock style connector and cap. The hose extends from the bottom of the reservoir and can be connected to diaphragm pump or other fluid transfer system to evacuate fluid from the reservoir.

Model 3667 17 gallon (65 liter) truck drain

Features a rotary hand pump mounted horizontally to the front of the reservoir and a 6 ft. (1,8 m) long discharge hose with a steel J-hook installed at the outlet. Fluid is discharged from the reservoir by manually operating the pump.

Model 3669 17 gallon (65 liter) truck drain

Features a durable 120 V electric pump installed below the front of the reservoir. The pump operates when plugged into a standard power outlet and discharges fluid through a 6 ft. (1,8 m) hose with steel J-hook.







Truck drain technical data

Model
Capacity
Overall height
Reservoir material

Wheels (qty. 4) – pivoting Size (handle not included)

Pump output

3665*

17 gal. (6*5 liter*) 7.75 in. (195 *mm*) Polypropylene

4 in. (100 mm) 44 x 28 x 7.5 in. (1 120 x 710 x 190 mm) 3667*

17 gal. (6*5 liter*) 7.75 in. (195 *mm*) Polypropylene

4 in. (100 mm) 60 x 28 x 7.5 in. (1 525 x 710 x 190 mm) 1 gal. (3,8 liter)/15 revolutions 3669*

17 gal. (6*5 liter*) 7.75 in. (195 mm) Polypropylene

4 in. (100 mm) 60 x 28 x 7.5 in. (1 525 x 710 x 190 mm) 1 gal. (3,8 liter)/minute (10W-30 at room temperature) 2.6 gal. (9,8 liter)/minute (antifreeze)

^{*} WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Portable used fluid handling equipment – collection and transfer equipment, truck drains



Truck drain

Truck drains feature a low-profile design for collecting used fluids under RVs, trucks and other off-road equipment, without the need for a lift or jack. A long T-handle extending from the front of the reservoir allows the user to conveniently maneuver the drain into position. Once full, the reservoir can be emptied by gravity or with the use of an external pump.

Features

- Low profile design only 8 ½ in. (216 mm) tall
- Internal baffles and 2 in. (50,8 mm) wide lip reduces splash
- Removable metal screen keeps out parts and debris
- Dual female 3/4 in. NPT drain ports

Model 84714 20 gallon (75 liter) truck drain

Model 84714 features heavy-duty welded steel construction and a unique three-wheel design that allows the operator to steer the drain into position. A front port located at the bottom of the reservoir allows fluid to drain by gravity, while a second port located on the back is designed for evacuation using an external pump. Two internal baffles and a 2 in. (50,8 mm) wide lip around the top of the reservoir reduces splash during draining and movement.

Truck drain technical data

Model

Capacity Overall height Ground clearance

Reservoir material Front wheels (qty. 1) – pivoting Rear wheels (qty. 2) – fixed axle

Drain ports Size (handle not included) 84714

20 gal. (75,71 liter) 8.5 in. (216 mm) ³/₄ in. (19 mm)

Steel 4 in. (101,6 mm) 6 in. (152,4 mm)

³/₄ in. female NPT 36 x 23.5 x 8.5 in. (914 x 597 x 216 mm)



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Model 4105

Model 277208

Model 276411

Model 277645

Model 277090



Model 244390

Optional accessories

| Model | Name | Description | Compatible models |
|---------|-------------------|---|-------------------|
| 4105* | Evacuation kit | ³ / ₄ in. camlock kit for pump-assist evacuation through lower port Allows gravity drain through lower port ³ / ₄ in. female camlock coupler x ³ / ₄ in. female NPT | 84714, 276411 |
| 277208 | Drain spigot | | 84714 |
| 276411 | Camlock coupler | | 277645 |
| 277645 | Camlock fitting | 3/4 in. male camlock fitting x 3/4 in. male NPT 3/4 in. camlock cap with chain 3/4 in. female dry-break coupler | 84714, 276411 |
| 277090 | Camlock cap | | 277645, 4105 |
| 244390* | Dry-break coupler | | - |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov







Pit drains

Pit drains are designed for track-mounting in service pits or drive over applications. Two wheels extend from each side of the reservoir on axles that can be adjusted to fit varying track widths. Reservoirs have two opposing ³/₄ in. NPT ports for connecting to an external evacuation pump and/or for connecting multiple drains in tandem. All models feature heavy-duty steel construction with internal baffles to reduce splash and a removable steel debris screen.

Features

- Four wheel and axle assemblies extend and lock to fit varying track widths
- Internal baffles reduce splash during movement
- Removable steel screen keeps out parts and debris
- Shutoff valve and 3/4 in. male camlock connector with dust cap included

Model 3662 13 gallon (50 liter) pit drain

Features a compact, low-profile design for applications with restricted clearance. Reservoir is made from drawn steel with rounded corners. A handle is welded to each end for improved maneuverability.

Model 84700 30 gallon (115 liter) pit drain

Large capacity welded steel reservoir glides smoothly on 4 in. (101,6 mm) diameter polyurethane wheels. Includes model 92572 removable splash shield to focus oil stream into reservoir.

Pit drain technical data

| Model | 3662 | 84700* |
|---------------------|---|---|
| Capacity | 13 gal. (49,2 liter) | 30 gal. (113,6 liter) |
| Overall height | 8 in. (203 mm) | 9.3 in. (236 mm) |
| Track width | 28 to 50 in. (711 to 1 270 mm) | 36 to 49.5 in. (914 to 1 257 mm) |
| Reservoir material | Steel | Steel |
| Wheel quantity | 4 | 4 |
| Wheel diameter | 2 in. (<i>50,8 mm</i>) | 4 in. (101,6 mm) |
| Drain ports Size | ³ / ₄ in. male NPT 32.3 x 24.5 x 8 in. (820 x 622 x 203 mm) | ³ /4 in. male NPT 36 x 28 x 9.3 in. (914 x 711 x 236 mm) |

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Model 276411

Model 244390

Optional accessories

| Model | Name | Description | Compatible models |
|-------------------|--------------------------------------|--|-------------------|
| 276411 244390* | Camlock coupler Dry-break coupler | ³ / ₄ in. female camlock coupler x ³ / ₄ in. female NPT ³ / ₄ in. female dry-break coupler | 277645 |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Diaphragm pump evacuation kits

Diaphragm pump kits provide a clean, safe method for evacuating used fluids from collection equipment such as portable drains and evacuators, and pumping it through an enclosed system to a remote storage tank. Any type of used fluid equipment fitted with a ³/₄ in. camlock coupler can be easily connected to the pump and evacuated. Kits include an air-operated double-diaphragm pump with wall-mount bracket, as well as all recommended air supply, fluid extraction and fluid discharge fittings, components and accessories.

Features

- Premium air-operated double-diaphragm pump for long maintenance free operation
- Large inlet T-strainer prevents debris from entering the pump
- Designed for use with all Lincoln pumpassist fluid collection equipment
- For diaphragm pump specifications
 (→ page 98).

Model 4100 1 in. UL-listed diaphragm pump evacuation kit

Features 1 in. UL-listed aluminum doublediaphragm pump (model 85634), recommended for transferring flammable liquids including used oil, ATF fluid, diesel and kerosene.

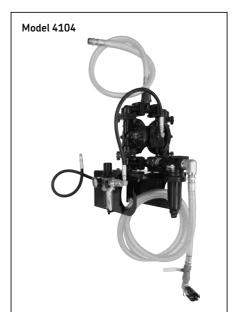
Model 4102 1 in. non-UL diaphragm pump evacuation kit

Features 1 in. non-UL aluminum double-diaphragm pump (model 85627), recommended for transferring non-flammable liquids including transmission fluid, coolant, and washer fluid.

Model 4104 ¹/₂ in. non-UL diaphragm pump evacuation kit

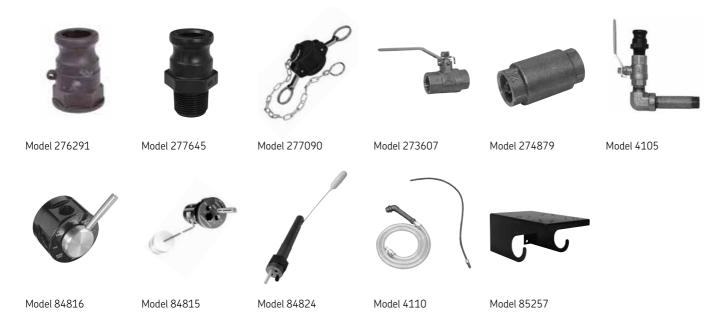
Features 1/2 in. non-UL aluminum double-diaphragm pump (model 85631), for transferring non-flammable liquids including transmission fluid, coolant, and washer fluid.





| Diaphragm pump evacuation kit technical data | | | | |
|--|--|--|---|--|
| Model | 4100* | 4102* | 4104* | |
| Pump | | | | |
| Model | 85634 | 85627 | 85631 | |
| Description | 1 in. (25,4 mm) | 1 in. (25,4 mm) | ¹ / ₂ in. (12,7 mm) | |
| Body material | Aluminum | Aluminum | Aluminum | |
| Wetted or soft parts | Buna-N | Buna-N | Buna-N | |
| Max. recommended air pressure | 50 psi (3,4 <i>bar</i>) flammable liquids 125 psi (8,6 <i>bar</i>) others | 125 psi (8,6 <i>bar</i>) | 100 psi (6,9 <i>bar</i>) | |
| Suction connector | ³ / ₄ in. female camlock | ³ / ₄ in. female camlock | 3/4 in. female camlock | |
| Discharge outlet | ³ / ₄ in. male NPT | ³ / ₄ in. male NPT | ³ / ₄ in. male NPT | |
| Air inlet size | ³ / ₈ in. male NPT | ³ / ₈ in. male NPT | ¹ / ₄ in. male NPT | |

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Optional accessories

| Model | Name | Description | Compatible models |
|-----------------------------|---|---|--|
| 276291 277645 277090 | Camlock fitting Camlock fitting Camlock cap | $^{3}/_{4}$ in. male camlock fitting x $^{3}/_{4}$ in. female NPT $^{3}/_{4}$ in. male camlock fitting x $^{3}/_{4}$ in. male NPT $^{3}/_{4}$ in. camlock cap with chain | 4100, 4102, 4104 4100, 4102, 4104 276291, 277645, 4105 |
| 273607* 274879* 4105* | Ball valve Check valve Evacuation kit | 3 / ₄ x 3 / ₄ in. ball valve for backflow prevention 3 / ₄ x 3 / ₄ in. check valve for backflow prevention 3 / ₄ in. camlock drain conversion kit | 4100, 4102, 4104 4100, 4102, 4104 4100, 4102, 4104 |
| 84816 | 4-way valve | Four port, two-position valve enables one pump to evacuate and dispense fluid from a single tank. Ports are 1 in. NPT. | 4100, 4102, 4104 |
| 84815 | Overfill warning valve | For single-wall tanks and drums. Sounds whistle and shuts off air-supply when fluid rises above preset level. Requires connection to compressed air. 1/4 in. NPT air inlet and outlet ports. | 4100, 4102, 4104 |
| 84824 | Overfill warning valve | For double-wall tanks. Sounds whistle and shuts off air-supply when fluid rises above preset level. Requires connection to compressed air. ¹ / ₄ in. NPT air inlet and outlet ports. | 4100, 4102, 4104 |
| 4110* | Dipstick evacuation kit | Enables diaphragm pump to be used for fluid evacuation from reservoirs or through dipstick tube. Includes 10 ft. $(3 m)$ suction hose, five evacuation wands and wand | 4100, 4102, 4104 |
| 85257 | Wall-mount bracket | holder. For wand specifications (\rightarrow page 169). For use with $^{1}/_{4}$, $^{1}/_{2}$ and 1 in. diaphragm pumps (included with models 4100, 4102 and 4104). | 4100, 4102, 4104 |

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Used fluid collection equipment - general

Model 3652 6 gallon (22 liter) fluid evacuator

Combines a compact, portable tank design with a powerful compressed-air operated venturi vacuum for quick, clean, and convenient extraction of engine oil or transmission fluid through the dipstick tube, or for other general fluid extraction needs. Three flexible and two rigid wands are included, as well as dipstick tube adapters for BMW, Mercedes, and Volkswagen brand vehicles. Tank is emptied by removing a wide-mouth cap and tilting to pour.

Features

- Portable 6 gallon (22 liter) capacity heavy-duty welded steel tank
- 10 ft. (3 m) long wire-reinforced evacuation hose
- Rolls smoothly on two 5 in. (13 cm) fixed axle wheels with rubber treads
- Easy-to-read volume level sight tube
- Vacuum level gauge



Model 3652 technical data

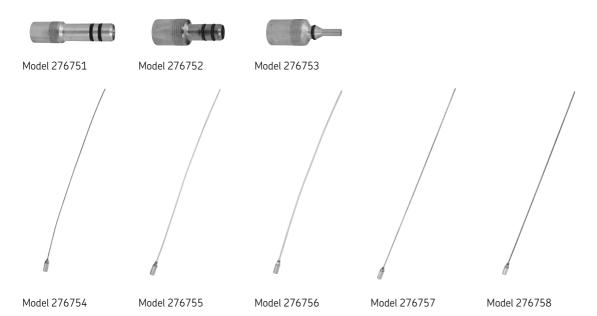
Model 3652*

Capacity6 gal. (22 liter)Maximum air pressure150 psi (10 bar)Minimum air pressure90 psi (6 bar)Maximum fluid temperature $176 \, ^{\circ}F (80 \, ^{\circ}C)$

Reservoir material Steel
Wheels (qty. 2) – fixed-axle 5 in. (127 mm)

Size 14 x 14 x 29.8 in. (356 x 356 x 757 mm)

* WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Standard accessories for model 3652

| Model | Name |
|----------------------------|---|
| 276751 276752 276753 | Mercedes oil dipstick tube adapter BMW oil dipstick tube adapter Volkswagen oil dipstick tube adapter |
| 276754 276755 276756 | 0.20 in. (5 mm) diameter x 31 in. (790 mm) long flexible extraction wand (red) 0.24 in. (6 mm) diameter x 31 in. (790 mm) long flexible extraction wand (clear) 0.31 in. (8 mm) diameter x 31 in. (790 mm) long flexible extraction wand (yellow) |
| 276757 276758 | 0.20 in. (5 mm) diameter x 31 in. (790 mm) long rigid extraction wand 0.24 in. (6 mm) diameter x 31 in. (790 mm) long rigid extraction wand |



Optional accessories

| Model | Name | Description | Compatible models |
|-------|--------------------|-------------|---|
| 3602* | Magnetic tool tray | | 3601, 3614, 3617, 3618, 3635, 3637, 3639, 3650 |

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Model 3605 4.5 gallon (17 liter) pedestal drain

The combined light weight and slim size of model 3605 make it easy to position and maneuver under lift-mounted vehicles, and convenient to store in shops with limited space. The 13 in. (330,2 mm) diameter, 4 ½ gallon (17 liter) capacity bowl has a hinged cover that extends to catch streaming oil. When full, the bowl is lifted off the stand and placed onto a specially designed adapter that opens a spring-actuated valve, allowing fluid to drain into a drum or storage tank. The stand has a quick-release latch that automatically locks at the desired height.

Features

- Hinged lid opens to catch oil stream
- Self-locking, quick-release height adjustment latch
- Spring-actuated drain valve
- Includes automatic drain adapter for containers with 2 in. bung opening



Pedestal drain technical data

Model 3605

Capacity4 ½ gal. (17 liter)Bowl diameter13 ½ in. (343 mm)Bowl configurationCenter mount

Reservoir material Steel

 Minimum height
 46 in. (1 168 mm)

 Maximum height
 76 in. (1 930 mm)

 Base diameter
 18 in. (457 mm)

Standard accessories

| Model | Name | Description |
|-------|---------------|--|
| 82460 | Drain adapter | Opens spring-actuated valve to allow fluid to drain from bowl. |
| 83386 | Bowl assembly | Fits containers with 2 in. bung openings. 13 in. (343 mm) diameter, 4 ½ gallon (17 liter) bowl with hinged lid and spring-acutated drain valve |









Drum drains

Drum drains utilize a standard 16 gallon/120 lb. (60 liter/54 kg) steel drum as a fluid reservoir. They have a portable upright configuration commonly used for collecting fluids under lift-mounted vehicles. All models include a collection bowl, lid assembly with fluid level gauge and height-adjustable tube, and 17 in. (432 mm) square base with four 2 ½ in. (63,5 mm) ball-bearing swivel casters. Drains can be emptied using a gravity spigot (included with model 613DK) or pump-assist evacuation kit 247748 (sold separately).

Features

- Simple yet durable heavy-duty steel construction
- Volume level indicator
- Height-adjustable from 42 to 68 in. (1 067 to 1 727 mm)
- Models available with and without drum

Model 613DK 16 gallon (60 liter) drum drain

Complete drum drain kit including 16 gallon/ 120 lb. (60 liter/54 kg) steel drum, 14 in. (355,6 mm) diameter drain bowl, and gravity spigot.

Model 613 16 gallon (60 liter) drum drain

Same as 613DK except without drum. User must supply standard 16 gallon/120 lb. (60 liter/54 kg) drum and drain spigot.

Model 3644 16 gallon (60 liter) drum drain

Same as model 613 except with 20 in. (508 mm) diameter steel drain bowl. User must supply standard 16 gallon/120 lb. (60 liter/54 kg) drum and drain spigot.

Drum drain technical data

| Model | 613DK | 613 | 3644 |
|---------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Capacity | 16 gal. (6 <i>0 liter</i>) | 16 gal. (6 <i>0 liter</i>) | 16 gal. (6 <i>0 liter</i>) |
| Bowl diameter | 14 in. (355,6 <i>mm</i>) | 14 in. (355,6 <i>mm</i>) | 20 in. (508 <i>mm</i>) |
| Drum included | Yes | No | No |
| Wheels (qty. 4) – swivel caster | 4 in. (101,6 mm) | 4 in. (101,6 mm) | 4 in. (101,6 mm) |
| Minimum height | 42 in. (1 067 mm) | 42 in. (1 067 mm) | 42 in. (1 067 meter) |
| Maximum height | 68 in. (1 727 mm) | 68 in. (1 727 mm) | 68 in. (1 727 mm) |
| Size | 17 x 17 x 42 in. | 17 x 17 x 42 in. | 17 x 17 x 42 in. |
| | (432 x 432 x 1 067 mm) | (432 x 432 x 1 067 mm) | (432 x 432 x 1 067 mm) |



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Model 91197



Model 3608





Model 70526



Model 66493

Optional accessories

| Model | Name | Description | Compatible models |
|------------------------|--|---|--|
| 91197 82786 3608 | 14 in. (356 <i>mm</i>) diameter bowl 14 in. (356 <i>mm</i>) diameter bowl with lid 20 in. (508 <i>mm</i>) diameter bowl | Standard on models 613 and 613DK; optional on model 3644 Includes hinged lid with latch Standard on model 3644; optional on models 613 and 613DK | 613, 613DK, 3644 613, 613DK, 3644 613, 613DK, 3644 |
| 66493 | 16 gallon/120 lb. (60 liter/54 kg) drum | Steel drum with 1 in. NPT port for drain spigot. Standard on model | 613, 613DK, 3644 |
| 70526 | Drain spigot | 613DK; optional on models 613 and 3644 Gravity drain spigot with 1 in. male NPT. Standard on model 613DK; optional on models 613 and 3644 | 613, 613DK, 3644 |
| 247748 | Diaphragm pump evacuation kit | Includes fluid pick-up tube and ³ / ₄ in. male camlock fitting for connection to diaphragm pump or other fluid transfer system. Installs to lid so that fitting extends straight up | 613, 613DK, 3644 |

Model 615* suction gun

Holds up to 18 oz. (532 cm³) of fluid. Flexible nozzle for transmission, differential or oil filter service. Precision follower fitted to barrel for superior suction and is impervious to oil, grease and water. Finished in rustresistant, powder coated blue paint.

Model G150* suction gun

17 oz. (503 cm³) capacity with 12 in. (304,8 mm) flex hose. Perfect for draining and filling differentials, clutches, power steering reservoirs and transmissions. Needs no priming. Features heavy-duty steel barrel, electro-static, corrosion-resistant finish and non-slip knurling.



* ▲ WARNING

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Premium lube trolley package

Designed for convenience and portability, Lincoln's premium lube trolley package comes complete with all components needed for dispensing oil or grease directly from 55 gal. (208 l) or 400 lb. (181 kg) drums. Suitable for servicing a full range of vehicles, as well as industrial and machinery processes.

Includes a pneumatically operated Lincoln pump for oil or grease, a durable hose reel, metering device, air control with filter/regulator/gauge and connection hoses and fittings.

Features:

- Packaged with all necessary components
- Durable, heavy-duty construction
- Dispenses lubricant directly from 55 gal. (208 l) (oil) or 400 lb. (181 kg) (grease) drums
- Maneuvers easily on uneven surfaces in shop or factory
- Makes dispensing possible without installed overhead reels or bench tanks
- SKF and Lincoln resources ensure maximum reliability and lowest cost of ownership



Available packages

Model no. Description

Package 279092 - oil

284168 Series 25 universal 3:1 pump 94335 Heavy-duty reel with 30 ft. (9 m) hose 982 Electronic meter with flexible extension

Electronic meter with flexible extension measures pints, quarts, gallons or

liters

602134 Air control with filter/regulator/gauge – Oil connection hoses and fittings

Package 279091 - grease

 926
 Series 20 50:1 pump with cover

 83366
 Follower for 400 lb. (181 kg) drums

94533 Heavy-duty reel with 30 ft. (9 m), high-pressure hose

740 Heavy-duty control valve

81387 Universal swivel

602134 Air control with filter/regulator/gauge Grease connection hoses and fittings

INCOLN 162 SKF

Fuel transfer pump

Lincoln's model 1550 fuel transfer pump quickly delivers diesel, kerosene or mineral spirits from both mobile and stationary tanks. Its durable cast-iron housing, long-life, low-friction vanes, special seal design, UL-listed motor and stainless steel outlet adapter provide reliability in even the harshest environments.

The pump's unique, three-piece, telescoping pick-up tube is suitable for a wide range of tank depths and designs, and its 360-degree, locking bung enables the operator to properly position the pump.

Model 1550 fuel transfer pump

- Self-priming, cast-iron pump
- Insulated, weatherproof design
- Stainless steel 90-degree hose adapter
- 1 in. (25,4 mm) pump inlet and outlet offer high flow rate
- 360-degree, locking bung for proper positioning
- Three-piece telescoping pick-up tube for varying tank depths
- Pre-wired, heavy-gauge, 18 ft. (5,5 m) cable for operator convenience
- 13 ft. (4 m), commercial-grade, kink-resistant, anti-static hose
- Long-life, low-friction polymer vanes provide extended service intervals





Fuel transfer pump technical data

 $\begin{array}{lll} \mbox{Flow rate} & 15 \mbox{ gal./min.} \ (57 \mbox{ l/min.}) \\ \mbox{Pump inlet/outlet} & 1 \mbox{ in.} \ (25,4 \mbox{ mm}) \mbox{ NPT} \\ \mbox{Hose connection} & ^{3}\!\!/_{4} \mbox{ in.} \ (19 \mbox{ mm}) \mbox{ NPT} \\ \end{array}$

Power cord length 18 ft. (5,5 m) with heavy-duty connectors

Duty cycle 30 min. Locking bung Yes

Hose 13 ft. x ³/₄ in. ID (4 *m x* 19 *mm ID*)

UL-listed motor Yes Inlet filter Yes

Outlet adapter Stainless steel





Fuel caddies

Designed for the safe transfer and storage of fuel before, during and after repairs which require the removal of a vehicle's fuel tank. Offers features/components specially designed for use with volatile liquids.

Features

- Premium 2-way rotary pump dispenses fuel at a rate of 1 gal. (4 liters) per 12 revolutions
- Specially designed for use with unleaded gasoline, kerosene and diesel fuels
- 100% leak-tested welded-steel tank
- Portable, tilt-to-roll design requires minimal floor space

Model 3675* 25 gallon (95 liter) fuel caddy

- Large capacity 25 gal. (95 liter) heavy-duty welded steel tank
- 2-way rotary pump dispenses or extracts fuel depending on the direction of rotation
- Large 8 in. (200 mm) diameter rubber wheels
- Easy-to-read sight gauge clearly indicates fuel volume in tank
- Screened filler neck allows fuel to be poured in manually
- Fire-screened vent cap prevents tank pressurization

Model 3677 25 gallon (95 liter) fuel caddy with 2-way filter

Same as model 3675, but includes automatic 2-way filter system that uses two common spin-on filters to remove particulates while dispensing or extracting fuel.

Fuel caddy technical data

| Model | 3675* | 3677 |
|--|---|---|
| Capacity Reservoir material Pump output – revolutions/gal. (<i>liter</i>) | 25 gal. (<i>95 liter</i>) Steel 12 | 25 gal. (<i>95 liter</i>) Steel 12 |
| Wheels (qty. 2) Hose length Size | 8 in. (203 mm) diameter 7 ft. (2 134 mm) 22.5 x 20.5 x 44 in. (572 x 521 x 1 118 mm) | 8 in. (203 mm) diameter 7 ft. (2 134 mm) 22.5 x 20.5 x 44 in. (572 x 521 x 1 118 mm) |

^{*} WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov







Model 277464

Model 3602

Optional accessories

| Model | Name | Description | Compatible with | | |
|-----------------|--|--|---|--|--|
| 3612* | 2-way filter system | Filters fuel through independent replaceable filters. Standard on model 3677; optional on model 3675 | 3675, 3677 | | |
| 277464 3602* | Replacement filter Magnetic tool tray | 1 in12 UNF spin-on style fuel filter, 3/4 in. (19 mm) opening For use with metal drains to hold tools, small parts and fasteners | 3612, 3677 3601, 3614, 3617, 3618, 3650, 3652, 3675, 3677 | | |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Air line products and accessories

| Air couplers and nipples | 6 |
|--|----------------|
| Blow guns, tire inflators and siphon sprayers16 | 9 |
| Filters, lubricators, regulators and gauges17Miniature units17Gauges17Regulators, filters17Lubricators17 | '2 '3 '4 |
| Modular air care preparation systems and accessories | 6 |
| Air line equipment accessories 18 | 8 |





Air couplers

Blow guns

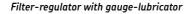


Air-operated sprayers



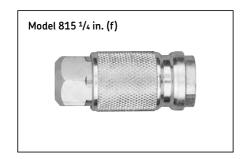
Miniature units



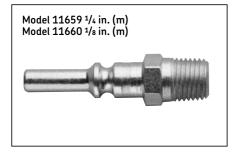


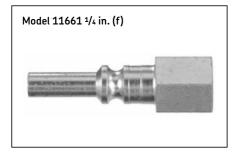


Pressure switches



Model 815 cut-away 1/4 in. (f)





Lincoln-style air couplers and nipples

Coupler and nipple can be joined without user pulling back on sleeve. A true quick-connect design!

Lincoln air couplers provide split-second coupling of grease guns, impact wrenches, paint sprayers and other air-operated equipment. Air flow products from Lincoln have the features and durability you demand for your business.

- Positive action locking mechanism so coupler cannot be detached accidentally.
- Extra large air passage insures greater air flow
- Automatic air check valve shuts off air instantly when uncoupled, providing leak-proof seal.
- Corrosion-resistant steel plug and stainless steel check and check spring for long service life.
- Free swiveling action prevents curling or kinking of air hose.

Lincoln-style couplers and nipples for 1/4 in. ID

Models 815, 11659, 11660, 11661

250 psi $(17 \, bar)$ maximum operating pressure. Extra-long stem of nipple and coupler body assures long service life, easy connections under severe operating conditions. Maximum air flow 52 scfm $(1,5 \, sm^3/min.)$ at 100 psi $(7 \, bar)$. Model 815 length 2 $^{1}/_{2}$ in. $(65 \, mm)$; diameter 1 $^{1}/_{16}$ in. $(37 \, mm)$; weight 4 $^{1}/_{2}$ oz. $(126 \, g)$.

Note: Model 11659 is available non-packaged for bulk orders as model 238394.

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ARO-style couplers and nipples for $^{1}/_{4}$ in. ID

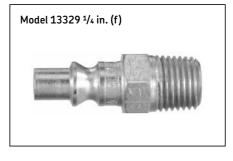
Models 5862, 13329, 13331

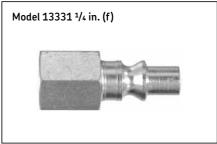
Fits ARO style nipples for 1/4 in. ID hose. Maximum operating pressure 300 psi (21 bar). 1/4 in. NPT (f) inlet. Maximum airflow 38 scfm (1,1 sm³/min.) at 100 psi (7 bar). Length 2 in. (50,8 mm); diameter 1 1/8 in. (29 mm); weight 4 oz. (113 g).

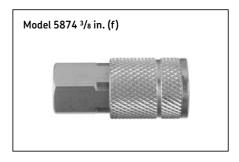
Automotive and Tru-Flatestyle couplers and nipples for 3/8 in. ID

Models 5874, 5875

Maximum operating pressure 300 psi (21 bar). Maximum airflow 100 scfm (170 sm³/min.) at 100 psi (7 bar). Length 2 ³/8 in. (60,3 mm); diameter 1 in. (25,4 mm); weight 4.8 oz. (136 g).





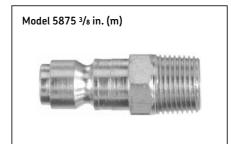


Universal coupler

Model 5862

Fits all Automotive/Tru-Flate, ARO, and Industrial/Milton-style nipples for $^{1}/_{4}$ in. ID hose. Maximum operating pressure 300 psi $(21 \ bar)$. $^{1}/_{4}$ in. NPT (f) inlet. Maximum airflow 38 scfm $(1,1 \ sm^{3}/min.)$ at 100 psi $(7 \ bar)$. Length 2 in. $(50,8 \ mm)$; diameter 1 $^{1}/_{8}$ in. $(29 \ mm)$; weight 4 oz. $(113 \ g)$. Coupler and nipple can be joined without user pulling back on sleeve.





Model 632004 ¹/₄ in. (f)



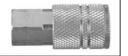
Model 630104 1/4 in. (m)



Model 630204 1/4 in. (f)



Model 642006 3/8 in. (f)



Model 640104 1/4 in. (m)



Model 640204 1/4 in. (f)



Model 652008 1/2 in. (f)



Model 650108 ¹/₂ in. (m)



Model 650208 ¹/₂ in. (f)



Industrial and Milton-style couplers and nipples for 1/4 in. ID (63 series)

Models 632004, 630104, 630204

Maximum operating pressure 250 psi (17 bar). Maximum airflow 45 scfm (1,3 sm³/min.) at 100 psi (7 bar). Length 1 ³/4 in. (44 mm); diameter 1 ¹/8 in. (29 mm); weight 3 oz. (85 g).

Industrial-style couplers and nipples for ³/₈ in. ID (64 series)

Models 642006, 640104, 640204, 640106, 640206

Maximum operating pressure 250 psi $(17 \, bar)$. Maximum airflow 108 scfm $(3,1 \, sm^3/min.)$ at 100 psi $(7 \, bar)$. Length 2 $^1/_{16}$ in. $(52 \, mm)$; diameter 1 $^5/_{16}$ in. $(49 \, mm)$; weight 6 oz. $(170 \, g)$.

Industrial-style couplers and nipples for $\frac{1}{2}$ in. ID (65 series)

Models 652008, 650108, 650208

Maximum operating pressure 200 psi (14 bar). Maximum airflow 176 scfm (5 sm³/min.) at 100 psi (7 bar). Length 2 ³/4 in. (70 mm); diameter 1 ¹/2 in. (38 mm); weight 9 oz. (255 g).

| Air couplers/nipples designation system | | | | | | | | |
|---|------------------------|---|--|--|--|--|--|--|
| × | х | xx | | | | | | |
| 0 = nipple 2 = coupler | 1 = male 2 = female | Thread size IN ¹ / ₁₆ in. | | | | | | |
| | x 0 = nipple | x x x 0 = nipple 1 = male | | | | | | |

Blow guns, tire inflators and siphon sprayers

Blow guns

Model 840*

- Handy thumb-button design provides ease of operation
- Brass stem and synthetic packaging for service life
- Addition of air nipple permits quick connect or disconnect
- 1/4 in. NPT (f) inlet; 7/64 in. outlet diameter

Model 950*

- Same as model 840, except with air restricter
- Nozzle inlet maximum pressure 30 psi (2,1 bar) complies with Federal Safety Regulation 50-204.8 and OSHA 1910 242.B

Model 960*

- Light-weight cast aluminum pistol grip
- 1/4 in. NPT (f) inlet; 7/64 in. outlet diameter; height 5 3/4 in. (146 mm)
- Nozzle inlet maximum pressure 30 psi (2,1 bar) complies with Federal Safety Regulation 50-204.8 and OSHA 1910 242.B

Model 940*

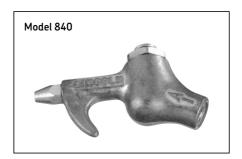
- Same as model 960 less air restricter
- When used for large cleaning requirement or chip cleaning, regulated air pressure must not exceed federal recommended maximum

Model 5980*

- Thumb control provides comfort and ease of operation
- 1/4 in. NPT (f) inlet; 1/8 in. NPT (f)outlet

Model 5990 rubber tip for blow guns

- Rubber tip will not scratch surfaces
- Fits models 840, 940 and 5980 blow guns, as well as many competitive models
- 1/8 in. NPT (m) threads









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Model 5983

Model 80423



Air-operated sprayers

Model 939

- Adjustable suction control varies fluid volume as needed.
- Strainer assembly in suction hose keeps out contaminants while assuring uninterrupted flow of fluid.
- 6 ft. (1,8 m) vinyl suction hose permits use with most any container from gallon jug to 55 gal. (208 liter) drum.
- Convenient addition of air coupler nipple permits quick coupling to any air hose.
- Rust and corrosion resistant pistol grip handle includes brass stem and synthetic packing.
- Use with solvents or detergent solutions.
 Compatible with vinyl, aluminum and carbon steel.
- Standard air inlet 1/4 in. NPT (f).
- Powerful spray. Maximum operating pressure 200 psi (14 bar).

Model 5983*

- Use with solvents or detergent solutions
- 1/4 in. NPT (f) inlet
- Maximum operating pressure 150 psi (10 bar)

Tire accessories

Model 80423 tire inflator

- 12 in. (305 mm) hose extension provides extra-reach capacity.
- Tapered chuck nut allows inflator to fit wheel covers on cars and light trucks.
- Dual chuck permits use on trucks with dual tires.
- Includes model 11659 nipple for use with model 815 coupler. Maximum inlet pressure 200 psi (14 bar).
- 0 to 120 psi (0 to 8 bar) scale in 2 psi (0,14 bar) graduations.

Model 66951* air chuck

For inflating tire. 1/4 in. NPT (f) inlet.

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LINCOLN 170 SKF

Lincoln regulators, filters and lubricators

A well-planned compressed air system virtually ensures minimum pressure loss in the system, and the removal of contaminants: water, compressor oil, etc. An inefficient system results in higher costs per unit of compressed air, improper or erratic tool operation, shortened component life and reduced capacity. Lincoln provides individual components and combined component systems to give you the highest quality for your compressed air tool operations.

Changes in air pressure can affect the performance of air-powered equipment. Most equipment will operate beyond recommended pressure, but this causes excess torque, force and wear and wastes compressed air. Lincoln air regulators eliminate this problem by providing the consistent pressure required for each tool, ensuring maximum life and working efficiency for your pneumatic equipment.

Air filters are essential for proper performance of air powered tools, equipment and machinery. Lincoln filters are designed to

minimize water vapor and contaminates in the air supply. Install a large filter in the main distribution line immediately after the compression accumulator tank. Another smaller filter should be placed inline within 20 feet (6,1 meter) of the equipment it will protect. This ensures the removal of solid particles at point of use and most condensed moisture.

Most air-operated tools, equipment and components of air systems require oil lubrication for proper function and to ensure long service life. Lincoln air line lubricators are designed to meter precise amounts of lubricant into the air supply,improving the efficiency of cylinders, valves and air motors. Lubrication is automatically provided in a nearly constant oil-to-air ratio over a wide range of air flows. Air passing through the operated device is a very fine mist that can be carried over a long distance, serving more than one tool at a time.





Model 600203







Miniature units

Model 600003* miniature regulator

All brass construction with Buna N diaphragm. For 1/4 in. pipe size.

Maximum supply pressure:
300 psi (20,68 bar).

Reduced pressure range:
0 to 125 psi (0 to 8,62 bar).

Operating temperature range:
-40 to +180 °F (-40 to +82 °C).

Diameter 1 ³/8 in. (35 mm), height 2 ³/4 in.

(70 mm), weight ¹/2 lb. (0,23 kg)

Model 600103* miniature filter

All brass construction with porous bronze filter (20 micron) element and shatter proof polycarbonate bowl. For ½ in. pipe size. Maximum supply pressure: 200 psi (13,79 bar).

Maximum operating temperature: 120 °F (49 °C).

Diameter 1 9/16 in. (40 mm), height 4 in. (102 mm), weight 3/8 lb. (0,17 kg)

Model 600203* miniature lubricator

All brass construction with shatterproof polycarbonate bowl. For $^{1}/_{4}$ in. pipe size. Maximum supply pressure: 200 psi (13,79 bar). Maximum operating temperature: 120 °F (49 °C). Oil viscosity limitation not over 800 S.S.U. [SAE #30 not under 85 °F (29,4 °C)]. Diameter 1 $^{9}/_{16}$ in. (40 mm), height 4 $^{3}/_{8}$ in. (111 mm), weight $^{1}/_{4}$ lb. (0,11 kg)

Model 602203 miniature lubricator

Aluminum construction with shatterproof polycarbonate bowl. For 1 /4 in. pipe size. Maximum supply pressure: 150 psi $(10,3 \ bar)$. Maximum operating temperature: 125 °F $(52 \ ^{\circ}C)$. Diameter 1.45 in. $(37 \ mm)$, height 5.23 in. $(133 \ mm)$, weight 0.3 lb. $(0,14 \ kg)$

Model 85672 miniature filter-regulator with gauge-lubricator

For 1 /4 in. pipe size. Maximum supply pressure: 150 psi (10,3 bar) Operating temperature range: 0 to +150 °F (-18 to +66 °C). Diameter 1.45 in. (37 mm), height 5.23 in. (133 mm), weight 1.23 lbs. (0,6 kg)

Model 85674 miniature filter-lubricator

For 1 /4 in. pipe size. Maximum supply pressure: 150 psi (10,3 bar) Operating temperature range: 0 to +125 °F ($^{-18}$ to +52 °C). Diameter 1.45 in. (37 mm), height 5.23 in. (133 mm), weight 0.9 lbs. (0,4 kg)

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Gauges

Model 66100 gauge

Registers pressures up to 200 psi (13,79 bar). Dial diameter 2 in. (50,8 mm). ¹/₄ in. NPT (m) bottom connection. Calibrated both in psi and kg/cm².

Model 66101 gauge

Same as model 66100 except 1/8 in. NPT (m) bottom connection.

Model 600401 gauge

Same as model 66100 except with $^{1}/_{4}$ in. NPT center back connection.

Model 66111 gauge

Same as model 66100 except registers to 5 000 psi (345 bar).







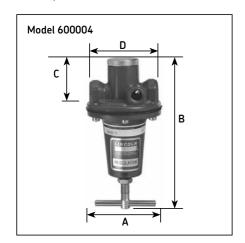
Air line equipment accessories - pressure gauges

Available in 1/8 and 1/4 in. NPT back and bottom connections

| Model | Regulator size | Gauge size | | Connection | Maximum pressure | | |
|---------------------------------------|---|---------------------------------|----------------------|--|--|---|--|
| | in. | in. | mm | in. | psi | bar | |
| 247843* 247844* 247863* | ¹ / ₄ and ³ / ₈ ¹ / ₂ , ³ / ₄ and 1 ¹ / ₂ , ³ / ₄ and 1 | 1 ¹ / ₂ 2 | 51 51 | ¹ / ₈ NPT (back) ¹ / ₄ NPT (back) ¹ / ₄ NPT (back) | 0 to 160 0 to 160 0 to 300 | 0 to 11 0 to 11 0 to 20 | |
| 66100* 66101* 600401* 66111* | - - - - | 2 2 2 2 | 51 51 51 51 | 1/4 NPT (bottom) 1/8 NPT (bottom) 1/4 NPT (back) 1/4 NPT (bottom) | 0 to 200 0 to 200 0 to 200 0 to 5 000 | 0 to 14 0 to 14 0 to 14 0 to 345 | |

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Regulators

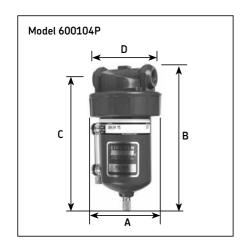
Die-cast zinc construction with stainless steel strainer and renewable brass seat. Diaphragm and disc are oil-resistant Buna-N. Secondary pressure side gauge connections are ½ in. NPT (f) and are sealed with removable pipe plugs. Maximum supply pressure is 300 psi (20,68 bar) for all sizes

listed. Operating range 0 to 250 psi (0 to 17,24 bar). Operating temperature range is 40 to 120 °F (4 to 49 °C).

Regulators

| Model | odel Size | | Dimensions A | | | С | | D | | Weig | ht |
|-------------------------------|---|---|------------------------|-------------|-------------------|---|----------|---|----------------|-------------------|-------------------|
| | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 600004* 600006* 600008* | 1/ ₄ 3/ ₈ 1/ ₂ | 3 3 3 ⁹ / ₁₆ | 76 76 90 | 6 6 7 | 152 152 178 | 1 ³ / ₈ 1 ³ / ₈ 1 ¹ / ₂ | 35 | 2 ³ / ₈ 2 ³ / ₈ 3 ¹ / ₄ | 60 60 83 | 1.8 1.8 2.8 | 0,8 0,8 1,3 |
| 600012* 600016* | ³ / ₄ 1 | 4 ¹¹ / ₁₆ 4 ¹¹ / ₁₆ | 119 119 | 10 10 | 254 254 | 1 ⁷ /8 1 ⁷ /8 | 48 48 | 4 ³ / ₈ 4 ³ / ₈ | 111 111 | 6.2 6.2 | 2,8 2,8 |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Filters

Constructed of die-cast zinc with 40 micron filter element of porous bronze. Metal bowl with sight glass. Maximum supply pressure 250 psi (17,24 bar). Maximum temperature 150 °F (66 °C).

Filters

| Model | Size | Capac | ity size | Dimens A | sions | В | | С | | D | | Weigl | ht |
|----------------------------------|---|-------------|-------------------|---|----------------|---|-------------------|---|-------------------|---|------------|-------------------|-------------------|
| | in. | 0Z. | cm3 | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 600104P* 600106P* 600108P* | 1/ ₄ 3/ ₈ 1/ ₂ | 5 5 8 | 142 142 227 | 2 ¹⁵ / ₁₆ 2 ¹⁵ / ₁₆ 3 ³ / ₄ | 75 75 95 | 5 ⁵ / ₈ 5 ⁵ / ₈ 6 ¹ / ₄ | 143 143 159 | 5 ¹ / ₈ 5 ¹ / ₈ 5 ⁵ / ₈ | 130 130 143 | 2 ¹³ / ₁₆ 2 ¹³ / ₁₆ 2 ¹³ / ₁₆ | 71,4 | 1.8 1.8 2.8 | 0,8 0,8 1,3 |
| 600112* 600116* | ³ / ₄ 1 | 16 16 | 454 454 | 4 ⁷ / ₈ 4 ⁷ / ₈ | 124 124 | 8 ³ / ₄ 8 ³ / ₄ | 222 222 | 7 ³ / ₄ 7 ³ / ₄ | 197 197 | 4 ⁹ / ₁₆ 4 ⁹ / ₁₆ | 116 116 | 6.3 6.3 | 2,9 2,9 |

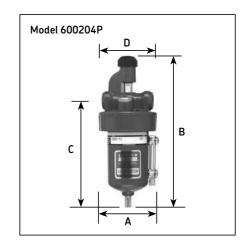
^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Lubricators

Constructed of die-cast zinc. Metal bowl with sight glass. Maximum supply pressure 250 psi (17,24 bar). Maximum temperature 150 °F (66 °C). Oil viscosity maximum not over 800 S.S.U. [SAE #30 not under 85 °F (29,4 °C)].

Note: Oil adjustment may be made tamperproof by removing "dial set" knob on all models. All sizes may be filled while under pressure.



Lubricators

| Model | Size | Capac | ity size | Dimens A | sions | В | | С | | D | | Weig | ht |
|----------------------------------|---|-------------|-------------------|---|----------------|---|-------------------|---|-------------------|---|------------|-------------------|---------------|
| | in. | OZ. | cm3 | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 600204P* 600206P* 600208P* | 1/ ₄ 3/ ₈ 1/ ₂ | 5 5 8 | 142 142 227 | 2 ¹⁵ / ₁₆ 2 ¹⁵ / ₁₆ 3 ³ / ₄ | 75 75 95 | 7 ⁵ / ₈ 7 ⁵ / ₈ 8 ¹ / ₈ | 194 194 206 | 5 ⁵ /8 5 ⁵ /8 5 ³ / ₄ | 143 143 146 | 2 ¹³ / ₁₆ 2 ¹³ / ₁₆ 2 ¹³ / ₁₆ | 71,4 | 2.2 2.2 3.3 | 1 1 1,5 |
| 600212* 600216* | ³ / ₄ 1 | 16 16 | 454 454 | 4 ⁷ / ₈ 4 ⁷ / ₈ | 124 124 | 10 ½ 10 ½ | | 7 ⁷ /8 7 ⁷ /8 | 200 200 | 4 ⁹ / ₁₆ 4 ⁹ / ₁₆ | 116 116 | 4.2 4.2 | 1,9 1,9 |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Model 82413* control assembly

Includes model 66100 gauge and model 600004 regulator. Inlet and outlet 1 4 in. NPT (f).

Model 600301* automatic drain conversion kit

Converts manual drain filter to automatic drain. Increases filter efficiency and eliminates problem of manual draining.



* WARNING California Proposi

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Lincoln's modular AirCare regulators, filters and lubricators

- Modular components snap into place for quick assembly and service
- Wide selection of sizes, styles and capacities to meet specific application requirements



Model 602108

Modular air line filters

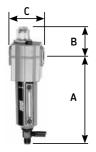
| Model | | Maximum Temperatur pressure range | | ıre | e Material of constructio Body Bowl | | Material | Element particle size |
|--------------------------------------|--------------------------|--------------------------------------|--|--|---|--------------------------------------|--|--------------------------|
| | psi | bar | °F | °C | | | | μ |
| 602104 602106 602108 602109 | 250 250 250 250 | 17 17 17 17 | 0 to 150 0 to 150 0 to 175 0 to 175 | -18 to +66 -18 to +66 -18 to +79 -18 to +79 | Zinc Zinc Aluminum Aluminum | Zinc Zinc Aluminum Aluminum | Sintered polypropylene Sintered polypropylene Sintered polypropylene Sintered polypropylene | 40 40 40 40 |



Model 602008

Modular air line regulators

| Model | Maximum pressure | | Temperature range | | Material of Body | Material of construction Body Bonnet | | Valve seal Bottom plug | |
|--------|---------------------|-----|----------------------|------------|----------------------------|---|---------------|------------------------|-------------------------------------|
| | psi | bar | °F | °C | | | | | in. |
| 602004 | 300 | 21 | 0 to 150 | -18 to +66 | Zinc | Acetal | Brass nitrile | Acetal | 1/8 NPT (f) |
| 602005 | 300 | 21 | 0 to 150 | -18 to +66 | Zinc | Acetal | Brass nitrile | Acetal | 1/8 NPT (f) |
| 602006 | 300 | 21 | 0 to 150 | -18 to +66 | Zinc | Acetal | Brass nitrile | Acetal | 1/8 NPT (f) |
| 602007 | 300 | 21 | 0 to 175 | -18 to +79 | Aluminum | Aluminum | Brass nitrile | Acetal | ¹ / ₄ NPT (f) |
| 602008 | 300 | 21 | 0 to 175 | -18 to +79 | Aluminum | Aluminum | Brass nitrile | Acetal | ¹ / ₄ NPT (f) |
| 602009 | 300 | 21 | 0 to 175 | -18 to +79 | Aluminum | Aluminum | Brass nitrile | Acetal | ¹ / ₄ NPT (f) |

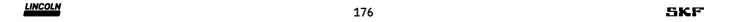


Model 602208

Modular air line lubricators

| Model | Maximum pressure | | Temperature range | | Material of construction Body Bowl | | Sight feed dome | |
|----------------------------|---------------------|----------------|----------------------------------|--|--|--------------------------|---|--|
| | psi | bar | °F | °C | | | | |
| 602204 602206 602208 | 250 250 250 | 17 17 17 | 0 to 150 0 to 150 0 to 175 | -18 to +66 -18 to +66 -18 to +79 | Zinc Zinc Aluminum | Zinc Zinc Aluminum | Transparent nylon Transparent nylon Transparent nylon | |

Recommended lubricants: misting type oil 50 to 200 SSU (ISO Grade 7 to 46) at 100 °F (38 °C) Transparent nylon liquid level indicator lens



| Model | Drain type | Size PTF | Dime r A | nsions | В | | C Diameter | | Weight | | | |
|--------------------------------------|---|--|------------------------------|--------------------------|------------------------------|----------------------|------------------------------|----------------------|------------------------------|----------------------|--------------------------|--------------------------|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 602104 602106 602108 602109 | Manual Manual Manual Automatic | 1/ ₄ 3/ ₈ 1/ ₂ 1/ ₂ | 5.27 5.27 6.95 6.35 | 134 134 177 161 | 0.75 0.75 1.00 1.00 | 19 19 25 25 | 1.98 1.98 3.15 3.15 | 50 50 80 80 | 1.91 1.91 2.89 2.89 | 49 49 73 73 | 1.1 1.1 1.8 1.8 | 0,5 0,5 0,8 0,8 |

| Model | Pressure range | | Connection NPT (f) | | Dimensions A B | | С | | Diam | eter | Adjuster | Weigh | ıt | |
|--------|-------------------|-----------|-----------------------|------|--------------------------|------|----|------|------|------|----------|----------|------|-----|
| | psi | bar | in. | in. | mm | in. | mm | in. | mm | in. | mm | | lbs. | kg |
| 602004 | 5 to 150 | 0,3 to 10 | 1/ ₄ | 4.0 | 102 | 1.31 | 33 | 2.0 | 51 | 3.2 | 81 | T-handle | 0.8 | 0,4 |
| 602005 | 5 to 150 | 0,3 to 10 | 1/ ₄ | 2.88 | 73 | 1.31 | 33 | 2.0 | 51 | 3.2 | 81 | Knob | 0.8 | 0,4 |
| 602006 | 5 to 150 | 0,3 to 10 | 3/ ₈ | 4.0 | 102 | 1.31 | 33 | 2.0 | 51 | 3.2 | 81 | T-handle | 0.8 | 0,4 |
| 602007 | 5 to 150 | 0,3 to 10 | 3/8 | 2.88 | 73 | 1.31 | 33 | 2.0 | 51 | 3.2 | 81 | Knob | 0.8 | 0,4 |
| 602008 | 10 to 250 | 0,7 to 17 | 1/ ₂ | 5.95 | 151 | 1.69 | 43 | 3.15 | 80 | 5.1 | 130 | T-handle | 1.77 | 0,8 |
| 602009 | 5 to 150 | 0,3 to 10 | 1/ ₂ | 5.0 | 127 | 1.69 | 43 | 3.15 | 80 | 5.1 | 130 | Knob | 1.77 | 0,8 |

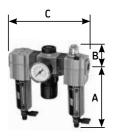


Model 602138

Integrated/modular filter/regulator with gauge

| Model | Maxii press | | Temperature range | | Element particle size | Pressure range | | |
|----------------------------|-------------------|----------------|-----------------------------------|--|-----------------------|----------------------------------|-------------------------------------|--|
| | psi | bar | °F | °C | μ | psi | bar | |
| 602134 602136 602138 | 250 250 250 | 17 17 17 | 0 to 150 0 to 150 0.3 to 10 | -18 to +66 -18 to +66 -18 to -12 | 40 40 40 | 5 to 150 5 to 150 5 to 150 | 0,3 to 10 0,3 to 10 0,3 to 10 | |

Can be used with other AirCare modular components.



Modular air line combination units: filter-regulator with gauge-lubricator

| Model | Maximum pressure | | Temperature range | | Element particle size | Pressure range | | Capacity size | |
|----------------------------------|---------------------|----------------|----------------------------------|--|--------------------------|----------------------------------|-------------------------------------|-------------------|-----------------|
| | psi | bar | °F | °C | μ | psi | bar | OZ. | ml |
| 85387-4* 85387-6* 85387-8* | 250 250 250 | 17 17 17 | 0 to 150 0 to 150 0 to 175 | -18 to +66 -18 to +66 -18 to +79 | 40 40 40 | 5 to 150 5 to 150 5 to 150 | 0,3 to 10 0,3 to 10 0,3 to 10 | 2.0 2.0 7.0 | 57 57 198 |

Model 85387-8

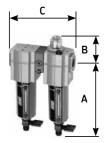


Model 85388-8

Modular air line combination units: filter-regulator with gauge

| Model | Maximum pressure | | Temperatu range | re | Element particle size | Pressure range | | |
|-------------------------------|---------------------|----------------|----------------------------------|--|--------------------------|----------------------------------|-------------------------------------|--|
| | psi | bar | °F | °C | μ | psi | bar | |
| 85388-4 85388-6 85388-8 | 250 250 250 | 17 17 17 | 0 to 150 0 to 150 0 to 175 | -18 to +66 -18 to +66 -18 to +79 | 40 40 40 | 5 to 150 5 to 150 5 to 150 | 0,3 to 10 0,3 to 10 0,3 to 10 | |

Transparent nylon liquid level indicator lens.



Modular air line combination units: filter-lubricator

| Model | Maxim pressu | | Temperatu range | re | Element particle size | Capacity size | | |
|----------|-----------------|-----|--------------------|------------|--------------------------|---------------|-----|--|
| | psi | bar | °F | °C | μ | OZ. | ml | |
| 85389-8* | 250 17 | | 0 to 175 | –18 to +79 | 40 | 7.0 | 198 | |

Transparent nylon liquid level indicator lens.

Model 85389-8

LINCOLN 178 SKF

Transparent nylon liquid level indicator lens.

^{*} **AWARNING** California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

 $^{{\}bf ^{*}\Delta WARNING}\ California\ Proposition\ 65: Cancer\ and\ reproductive\ harm.\ www.P65Warnings.ca.gov$

| Model | Drain type | Size PTF | Dime r A | nsions | В | В | | C Diameter | | | Weights | | |
|----------------------------|----------------------------|---|----------------------|-------------------|----------------------|-----------------|----------------------|----------------|----------------------|-----------------|-------------------|-------------------|--|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg | |
| 602134 602136 602138 | Manual Manual Manual | 1/ ₄ 3/ ₈ 1/ ₂ | 5.27 5.27 6.95 | 134 134 177 | 2.89 2.89 4.98 | 73 73 127 | 1.98 1.98 3.15 | 50 50 80 | 3.29 3.29 5.10 | 84 84 130 | 1.2 1.2 2.6 | 0,5 0,5 1,2 | |

| Model | Drain type | Size PTF | Dimens A | sions | В С | | | Weights | | |
|-------------------------------|----------------------------|---|----------------------|-------------------|----------------------|----------------|-----------------------|-------------------|-------------------|-------------------|
| | | in. | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 85387-4 85387-6 85387-8 | Manual Manual Manual | 1/ ₄ 3/ ₈ 1/ ₂ | 5.27 5.27 6.95 | 134 134 177 | 1.63 1.63 2.12 | 41 41 54 | 6.46 6.46 10.52 | 164 164 267 | 3.3 3.3 6.2 | 1,5 1,5 2,8 |

| Model | Drain type | Size PTF | Dimen s | Dimensions A | | В С | | | Weights | | |
|-------------------------------|----------------------------|---|----------------------|------------------------|----------------------|----------------|----------------------|-------------------|-------------------|-------------------|--|
| | | in. | in. | mm | in. | mm | in. | mm | lbs. | kg | |
| 85388-4 85388-6 85388-8 | Manual Manual Manual | 1/ ₄ 3/ ₈ 1/ ₂ | 5.27 5.27 6.95 | 134 134 177 | 1.31 1.31 1.69 | 33 33 43 | 4.22 4.22 6.84 | 107 107 174 | 2.0 2.0 4.2 | 1,0 1,0 2,0 | |

| Model | Drain type | Size PTF | Dimen : | sions | В | | Weights | | | |
|---------|---------------|--------------------|----------------|-------|------|----|---------|-----|------|-----|
| | | in. | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 85389-8 | Manual | 1/2 | 6.95 | 177 | 2.12 | 54 | 6.84 | 174 | 3.8 | 1,7 |



Model 602112

High-capacity air line filters

| Model | Maxir press | | Temperatu | re range | Material of o | construction Bowl | Material | Element particle size |
|--|--------------------------|----------------------|--|--|--|--|--|--------------------------|
| | psi | bar | °F | °C | | | | μ |
| 602112* 602113* 602116* 602117* | 250 250 250 250 | 17 17 17 17 | 0 to 175 0 to 175 0 to 175 0 to 175 | -18 to +79 -18 to +79 -18 to +79 -18 to +79 | Aluminum Aluminum Aluminum Aluminum | Aluminum Aluminum Aluminum Aluminum | Sintered bronze Sintered bronze Sintered bronze Sintered bronze | 50 50 50 50 |

Bowl is aluminum with Pyrex sight glass (liquid level indicator).

^{*} AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Model 602013

High-capacity air line regulators

| Model | Maxi press | mum sure | Temperat | ure range | Material of Body | construction Bonnet | Valve seal | Bottom plug | Secondary Connections |
|----------------------------|-------------------|----------------|----------------------------------|--|----------------------------------|----------------------------------|--|----------------------------------|---|
| | psi | bar | °F | °C | | | | | in. |
| 602012 602013 602016 | 300 300 300 | 21 21 21 | 0 to 175 0 to 175 0 to 175 | -18 to +79 -18 to +79 -18 to +79 | Aluminum Aluminum Aluminum | Aluminum Aluminum Aluminum | Aluminum/nitrile Aluminum/nitrile Aluminum/nitrile | Aluminum Aluminum Aluminum | 1/4 NPT (f) 1/4 NPT (f) 1/4 NPT (f) |

Material of construction

Bowl

Aluminum

Aluminum

Body

Aluminum

Aluminum

Sight feed dome

Transparent nylon

Transparent nylon

SKF

High-capacity air line lubricators

Maximum

bar

17 17

pressure

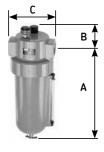
psi

250 250

Model

602212*

602216*



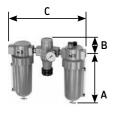
Model 602212

| Recommended lubricants: misting type oil 50 to 20 |
|--|
| Bowl is aluminum with Pyrex liquid level indicator |

⁰⁰ SSU (ISO Grade 7 to 46) at 100 °F (38 °C)

0 to 175

0 to 175



High-capacity air line combination units: high-capacity filter-regulator with gauge-lubricator

-18 to +79

-18 to +79

Temperature range

| Model | Maxir press | | Temperature range | | Element Pressi particle size | | ange | Capaci | ty size |
|------------------------|----------------|----------|----------------------|--------------------------|---------------------------------|----------------------|--------------------------|----------|------------|
| | psi | bar | °F | °C | μ | psi | bar | OZ. | ml |
| 85387-12* 85387-16* | | 17 17 | 0 to 175 0 to 175 | -18 to +79 -18 to +79 | 50 50 | 5 to 125 5 to 125 | 0,3 to 8,6 0,3 to 8,6 | 32 32 | 946 946 |

Model 85387-12

Pyrex liquid level indicator

LINCOLN 180

^{*} AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

^{*} AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

| Model | Drain type | Size PTF | Dimen A | sions | В | | С | | Diamete | er | Weights | | |
|--------------------------------------|--|--------------------|----------------------------------|--------------------------|------------------------------|----------------------|------------------------------|--------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg | |
| 602112 602113 602116 602117 | Manual Automatic Manual Automatic | 3/4 3/4 1 | 10.44 10.06 10.44 10.06 | 265 256 265 256 | 1.25 1.25 1.25 1.25 | 32 32 32 32 | 4.75 4.75 4.75 4.75 | 121 121 121 121 | 5.52 5.52 5.52 5.52 | 140 140 140 140 | 4.1 4.1 4.1 4.1 | 1,9 1,9 1,9 1,9 | |

| Model | Pressure ra | ange | Connections NPT (f) | Dime i A | nsions | В | | С | | Diam | eter | Adjuster | Weigl | nts |
|----------------------------|------------------------------------|-------------------------------------|---|----------------------|-------------------|----------------------|----------------|----------------------|-------------------|----------------------|----------------|------------------------------|-------------------|-------------------|
| | psi | bar | in. | in. | mm | in. | mm | in. | mm | in. | mm | | lbs. | kg |
| 602012 602013 602016 | 10 to 250 5 to 150 10 to 250 | 0,7 to 17 0,3 to 10 0,7 to 17 | ³ / ₄ ³ / ₄ 1 | 5.69 4.71 5.69 | 145 120 145 | 2.38 2.38 2.38 | 60 60 60 | 4.25 4.25 4.25 | 108 108 108 | 2.38 2.38 2.38 | 60 60 60 | T-handle Knob T-handle | 2.5 2.5 2.5 | 1,1 1,1 1,1 |

| Model | Connections NPT (f) | Bowl ca | apacity | Dimens A | ions | В | | С | | Diameter | | Weights | |
|------------------|----------------------------------|----------|------------|--------------------|------------|--------------|----------|------------|------------|--------------|------------|------------|------------|
| | in. | OZ. | ml | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 602212 602216 | ³ / ₄ 1 | 32 32 | 946 946 | 10.24 10.24 | 260 260 | 2.22 2.22 | 56 56 | 4.5 4.5 | 114 114 | 5.52 5.52 | 140 140 | 3.6 3.6 | 1,6 1,6 |

| Model | Drain type | Size PTF | Dimens A | ions | В С | | | | Weights | | |
|----------------------|------------------|----------------------------------|--------------------|------------|--------------|----------|----------------|------------|--------------|------------|--|
| | | in. | in. | mm | in. | mm | in. | mm | lbs. | kg | |
| 85387-12 85387-16 | Manual Manual | ³ / ₄ 1 | 10.44 10.44 | 265 265 | 2.22 2.22 | 56 56 | 14.75 14.75 | 375 375 | 10.6 10.6 | 4,8 4,8 | |

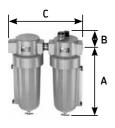


High-capacity air line combination units: filter-regulator with gauge

| Model | Maximu | m pressure | Temperatur | re range | Element particle size | Pressure ra | nge |
|-----------|--------|------------|------------|------------|--------------------------|-------------|------------|
| | psi | bar | °F | °C | μ | psi | bar |
| 85388-12* | 250 | 17 | 0 to 175 | –18 to +79 | 50 | 5 to 125 | 0,3 to 8,6 |

Pyrex liquid level indicator

Model 85388-12



High-capacity air line combination units: filter-lubricator

| Model | Maxim | um pressure | Temperatu | re range | Element particle size | Capacity | size |
|------------------------|------------|-------------|----------------------|--------------------------|--------------------------|----------|------------|
| | psi | bar | °F | °C | μ | OZ. | ml |
| 85389-12* 85389-16* | 250 250 | 17 17 | 0 to 175 0 to 175 | –18 to +79 –18 to +79 | 50 50 | 32 32 | 946 946 |

Model 85389-12

Pyrex liquid level indicator



Miniature air line components: air line filter

| Model | Maxi press | mum sure | Temperat | ure range | Material of Body | construction Bowl | Material | Element particle size |
|--------|---------------|-------------|----------|------------|----------------------------|-----------------------------|----------------------|--------------------------|
| | psi | bar | °F | °C | | | | μ |
| 602103 | 150 | 10,3 | 0 to 125 | –18 to +52 | Zinc | Polycarbonate | Porous polypropylene | 50 |

Model 602103



Miniature air line components: air line regulator

| Model | Maxi pres | mum sure | Temperat | ure range | Material Body | of constructio Bonnet | n Valve seal | Bottom plug | Secondary Connections | |
|--------|--------------|-------------|----------|------------|-------------------------|---------------------------------|------------------------|-------------|--------------------------|--|
| | psi | bar | °F | °C | | | | | in. | |
| 602003 | 300 | 21 | 0 to 150 | –18 to +66 | Zinc | Acetal | Brass/nitrile | Acetal | ¹ /8 NPT (f) | |

Model 602003



^{*} AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

^{*} WARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

| Model | Drain type | Port size PTF | Dimen s | Dimensions A | | В С | | С | | Diameter | | ts |
|----------|---------------|-------------------------|----------------|------------------------|------|-----|-----|-----|------|----------|------|-----|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 85388-12 | Manual | 3/4 | 10.44 | 265 | 2.38 | 60 | 10 | 254 | 5.52 | 140 | 6.9 | 3,1 |

| Model | Drain type | Size PTF | Dimens A | sions | В С | | | Diame | eter | Weigh | its | |
|----------------------|------------------|----------------------------------|--------------------|------------|--------------|----------|----------------|------------|--------------|------------|------------|------------|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 85389-12 85389-16 | Manual Manual | ³ / ₄ 1 | 10.44 10.44 | 265 265 | 2.22 2.22 | 56 56 | 10.25 10.25 | 260 260 | 5.52 5.52 | 140 140 | 7.8 7.8 | 3,5 3,5 |

| Model | Drain type | Size PTF | Dimens A | sions | В | | С | | Diameter | | Weights | |
|--------|---------------|--------------------|--------------------|-------|------|----|------|----|----------|----|---------|------|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 602103 | Manual | 1/4 | 3.25 | 83 | 0.38 | 10 | 1.63 | 41 | 1.45 | 37 | 0.3 | 0,14 |

| Model | Pressure r | ange | Connection NPT (f) | | | B C Diameter | | | | | | Adjuster | Weig | Weights | |
|--------|------------|----------|------------------------------|------|----|--------------|----|------|----|------|----|----------|------|---------|--|
| | psi | bar | in. | in. | mm | in. | mm | in. | mm | in. | mm | | lbs. | kg | |
| 602003 | 5 to 100 | 0,3 to 7 | 1/4 | 2.52 | 64 | 0.39 | 10 | 1.63 | 41 | 1.45 | 37 | Knob | 0.3 | 0,14 | |



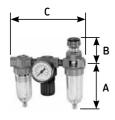


Miniature air line components: air line lubricator

| Model | Maxin pressi | | Temperatu | ire range | Material of c Body | onstruction Bowl | Sight feed dome |
|--------|-----------------|--|-----------|------------|------------------------------|---------------------|-------------------|
| | psi bar | | °F | °C | | | |
| 602203 | 150 10,3 0 to | | 0 to 125 | –18 to +52 | Aluminum | Polycarbonate | Transparent nylon |

Recommended lubricants: misting type oil 50 to 200 SSU (ISO Grade 7 to 46) at 100 °F (38 °C)

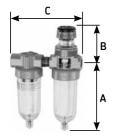
Model 602203



Miniature air line combination units: filter-regulator with gauge-lubricator

| Model | Maxii press | | Temperati | ure range | Element particle size | Pressure range | | Capacity size | | |
|-------|----------------|------|---------------|------------|--------------------------|----------------|----------|---------------|----|--|
| | psi bar | | psi bar °F °C | | μ | psi bar | | OZ. | ml | |
| 85672 | 150 | 10,3 | 0 to 150 | –18 to +66 | 50 | 5 to 100 | 0,3 to 7 | 1.0 | 28 | |

Model 85672



Miniature air line combination units: filter-lubricator

| Model | Maxim pressu | | Temperatu | re range | Element particle size | Capacity s | ize |
|-------|-----------------|------|-----------|------------|--------------------------|------------|-----|
| | psi | bar | °F | °C | μ | OZ. | ml |
| 85674 | 150 | 10,3 | 0 to 125 | –18 to +52 | 5 | 1.0 | 28 |

Model 85674

SKF 184

| Model | Connection NPT (f) | Bowl | capacity | Dime r A | Dimensions A | | В С | | | Diame | ter | Weigh | ts |
|--------|-----------------------|------|----------|--------------------|------------------------|------|-----|------|----|-------|-----|-------|------|
| | in. | OZ. | ml | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 602203 | 1/4 | 1.0 | 28 | 3.25 | 83 | 1.98 | 50 | 1.63 | 41 | 1.45 | 37 | 0.3 | 0,14 |

| Model | Drain type | Size PTF | Dimen : | sions | В | | С | | Diamet | er | Weigh | ts |
|-------|---------------|--------------------|----------------|-------|------|----|------|-----|--------|----|-------|-----|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 85672 | Manual | 1/4 | 3.25 | 83 | 1.98 | 50 | 5.61 | 143 | 1.45 | 37 | 1.3 | 0,6 |

| Model | Drain type | Size PTF | Dimen s | sions | В | | С | | Diame | eter | Weigh | ts |
|-------|---------------|--------------------|----------------|-------|------|----|------|----|-------|------|-------|-----|
| | | in. | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 85674 | Manual | 1/4 | 3.25 | 83 | 1.98 | 50 | 3.66 | 93 | 1.45 | 37 | 0.9 | 0,4 |



AirCare systems accessories

Modular air line equipment accessories

Lockout valve

Install in-line or modular with other AirCare products to help conform to OSHA lockout regulations. In the closed position, valves block inlet air flow and exhaust downstream air



Lock-out valve

| Model | Modular use | In-line use | Maximu | m pressure | Temperature range | |
|----------------------------|---|---|-------------------|----------------|----------------------------------|--|
| | in. | in. | psi | bar | °F | °C |
| 247770 247771 247772 | ¹ /4 modular ³ /8 modular ¹ /2 modular | 1/ ₄ 3/ ₈ 1/ ₂ | 250 250 250 | 17 17 17 | 0 to 150 0 to 150 0 to 150 | -18 to +66 -18 to +66 -18 to +66 |



Quick clamp

Use with modular air line components to provide modular installation capability. Flanges on the products slide into "v" grooves in the quick clamp. Two face-sealing o-rings in the quick clamp provide an air tight connection when the clamp is closed.

Quick clamp

| Model | Modular size | Dime | nsions | |
|------------------|--|------------|----------|--|
| | in. | in. | mm | |
| 247782 247783 | ¹ / ₄ and ³ / ₈ ¹ / ₂ and ³ / ₄ | 1.5 2.0 | 38 51 | |

LINCULN

SKF

Quick clamp wall mounting bracket

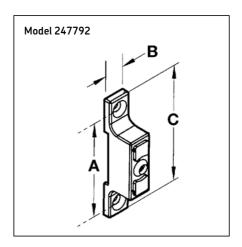
Use with quick clamp to provide secure mounting to a wall, machine panel or other flat surface.

Quick mount pipe adapters

Use with quick clamp to provide threaded connections to the system piping.

Manifold block

Installs with quick clamps. Ports are threaded pipe to provide manifolding capability for up to three components.



Quick clamp wall mounting bracket

| Model | Modular size | Dimen s | sions | В | | С | |
|------------------|--|----------------|----------|--------------|----------|-------------|-----------|
| | in. | in. | mm | in. | mm | in. | mm |
| 247792 247793 | ¹ / ₄ and ³ / ₈ ¹ / ₂ and ³ / ₄ | 2.32 3.25 | 59 83 | 0.55 0.95 | 14 24 | 2.91 4.0 | 74 102 |



Quick mount pipe adapters

| Model | Modular use | Size |
|----------------------------|---|-------------------|
| | in. | in. |
| 247787 247789 247791 | ³ /8 modular ¹ /2 and ³ /4 modular ¹ /2 and ³ /4 modular | 3/8 3/8 3/4 |



Manifold block

| Model | Size | Modular size | Dime n A | sions | В | | |
|--------|------|---|--------------------|-------|------|----|--|
| | in. | in. | in. | mm | in. | mm | |
| 247795 | 3/4 | ¹ / ₂ and ³ / ₄ | 2.27 | 57.8 | 3.15 | 80 | |



Pressure switch

Monitors air pressure and provides an electrical signal when the pressure drops below or exceeds the preset pressure. Installs between two quick clamps. Also provides three additional 1/4 in. auxiliary outlets.

Pressure switch

| Model | Modular size | Maxin | num pressure | Temperat | ure range | Adjustmen | Adjustment range | |
|--------|---|-------|--------------|----------|------------|-----------|------------------|--|
| | in. | psi | bar | °F | °C | psi | bar | |
| 247797 | ¹ / ₂ and ³ / ₄ | 250 | 17 | 0 to 150 | –18 to +66 | 30 to 150 | 2 to 10 | |



Wall mount bracket

Use to secure modular air line components to a wall, machine panel or other flat surface.

Wall mount bracket

| Model | Modular size |
|------------------|--|
| | in. |
| 247775 247776 | ¹ / ₄ and ³ / ₈ ¹ / ₂ and ³ / ₄ |

Air line equipment accessories



Mounting bracket and nut – miniature

Use to secure modular air line components to a wall, machine panel or other flat surface.

Mounting bracket and nut - miniature

| Model | Component |
|--------|--------------------------------|
| 247774 | All regulators and lubricators |

Pressure gauges

Available in 1/8 in. NPT and 1/4 in. NPT back connection.



| Model | Regulator size | Gauge size | Connection | Maximum | pressure |
|-------------------------------|---|---|---|----------------------------------|-------------------------------|
| | in. | in. | in. | psi | bar |
| 247843* 247844* 247863* | ¹ / ₄ and ³ / ₈ ¹ / ₂ , ³ / ₄ and 1 ¹ / ₂ , ³ / ₄ and 1 | 1 ¹ / ₂ 2 2 | ¹ / ₈ NPT ¹ / ₄ NPT ¹ / ₄ NPT | 0 to 160 0 to 160 0 to 300 | 0 to 11 0 to 11 0 to 20 |

^{*}AWARNING California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov



Model 247843

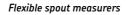
9

Miscellaneous

| Suction guns, oilers and measurers | | 190 |
|------------------------------------|------|-----|
| Water controls | | 191 |









Water controls





Model G503

Suction guns

Model 615*

Holds up to 18 oz. (532 cm³) of fluid. Flexible nozzle for transmission, differential or oil filter service. Precision follower fitted to barrel for superior suction and is impervious to oil, grease and water. Finished in rust-resistant, powder coated blue paint.

Model G150* suction gun

17 oz. (503 cm³) capacity with 12 in. (304,8 mm) flex hose. Perfect for draining and filling differentials, clutches, power steering reservoirs and transmissions. Needs no priming. Features heavy-duty steel barrel, electro-static, corrosion-resistant finish and non-slip knurling.

*** ∆ WARNING**

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Oilers and measurers

Oiler cans

Guardian offers oilers in a variety of sizes with rigid or flexible spouts to fit your needs.

Oiler cans

| Model | Description |
|-------|---------------------------------|
| G502 | 6 oz. (170 ml), rigid spout |
| G503 | 6 oz. (170 ml), flexible spout |
| G504 | 12 oz. (340 ml), rigid spout |
| G507 | 16 oz. (454 ml), flexible spout |





Flexible spout measures

Guardian's flexible spout measures are designed for one-hand operation. Thumboperated valve controls flow. 14 in. (355,6 mm) flexible spout with tapered tip swings into the necessary angle for hard-to-reach spots. Recessed bottom drains fully and guards against puncture. Rolled-edge top helps prevent spilling.

Flexible spout measures

| Model | Descri | otion | |
|----------------------|-------------|-------------------|--|
| | qt. | liter | |
| G524 G525 G528 | 4 5 8 | 3,8 4,7 7,6 | |



9

Water controls

Water controls

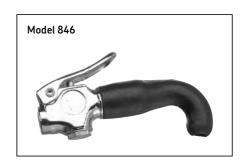
Model 846 water bibbcock

For attaching to water service hose.

- 1/4 in. NPT (f) inlet
- Thumb-action trigger. Built-in strainer filters out contaminants.

Model 845 water bibbcock

Same as model 846 except $^{3}/_{4} - 11$ $^{1}/_{2}$ in. AN inlet connects to standard lawn hose.



Air/water accessories

| Model | Description | Style |
|--------|---|--------------------------------|
| | in. | |
| 815 | ¹ /4 (f) air coupler | Lincoln "long stem" |
| 845* | ³ /4 – 11 ¹ /2 AN inlet | Connects to standard lawn hose |
| 846* | ¹ /4 (f) water bibbcock | Low-pressure water |
| 11659 | ¹ / ₄ (m) air nipple | Lincoln "long stem" |
| 66951* | ¹ / ₄ (f) tire chuck | Standard tire chuck |

^{*} **WARNING** California Proposition 65: Cancer and reproductive harm. www.P65Warnings.ca.gov

Typical installations – pump and reel

| Typical installation | on – bill o | f materials, l | ubricating equipment |
|--|----------------------|------------------|--|
| Model | Code | Required | Description |
| V450400DC V410055BB V40600SWM 85636 | 1 2 3 4a | 1 1 1 | 50:1 PMV pump, air and grease, hoses, connectors 10:1 PMV 55 gal. (208 liter) pump, air and oil hose, connectors, suction tube 6:1 PMV wall mount pump, connectors, suction tube, air and oil hoses Dual inlet ½ in. air operated diaphragm pump for 50/50 antifreeze/water |
| 84817 84945 V305275BB 85051 | 4b 4c 1 9 | 1 1 1 | Wall mount bracket 1) 5:1 PMV pump, hoses, air and fluid connectors, 275 gal. (1 041 liter) suction kit, bung bushing Complete reel assembly with 50 ft. $(15,24 \text{ m})^{1/4}$ in. hose |
| 85055 85061 85064 85061 | 7 8 9 10 | 1 1 1 | Gear lubricant reel Motor oil reel Antifreeze reel ATF reel |
| 85063 85242 602136 602134 | 11 12 2b 15 | 1 6 1 2 | Air service reel Mounting rail assembly Modular airline regulator and filter with gauge ³ / ₈ in. NPT (f) for PMV Air regulator (with gauge) ¹ / ₄ in. NPT (f) |
| 85825 Others | 5b 17 | 1 2 | Follower plate for PMV 275 gal. (1 041 liter) ob-round tank |

| Timical installation | hill of makenials | lubricant cumply lines |
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| | | |

| Model | Code | Required | Description |
|-------|------|----------|---|
| | | | |
| 2) | 20 | 3) | High-pressure steel tubing 5/8 in. OD x 0.083 wall, 20 ft. (6,1 m) lengths |
| 2) | 21 | 3) | Medium-pressure steel tubing 5/8 in. OD x 0.049 wall, 20 ft. (6,1 m) lengths |
| 2) | 22 | 3) | Alternate for antifreeze 15 PVC or copper pipe |
| 2) | 23 | 1 | 5/8 in. OD tube elbow, 1/2 in. NPT (m) |
| 2) | 24 | 4 | 5/8 in. OD tube elbow, 1/2 in. NPT (f) |
| 2) | 25 | 5 | 5/8 in. OD tube union |
| 2) | 26 | 5 | 5/8 in. OD tube union tee, 1/2 in. NPT (f) |
| 885 | 3 | 1 | High pressure |
| 66084 | 3 | 1 | Medium-pressure quarter-turn shut-off valve 1/2 in. NPT (f) |
| 12080 | 29 | 1 | Bushing ¹ / ₄ in. NPT (f) x ¹ / ₂ in. NPT (m) |

²⁾ Available from local petroleum equipment service distributor ³⁾ Quantities vary with installation

1) Quantities vary with installation

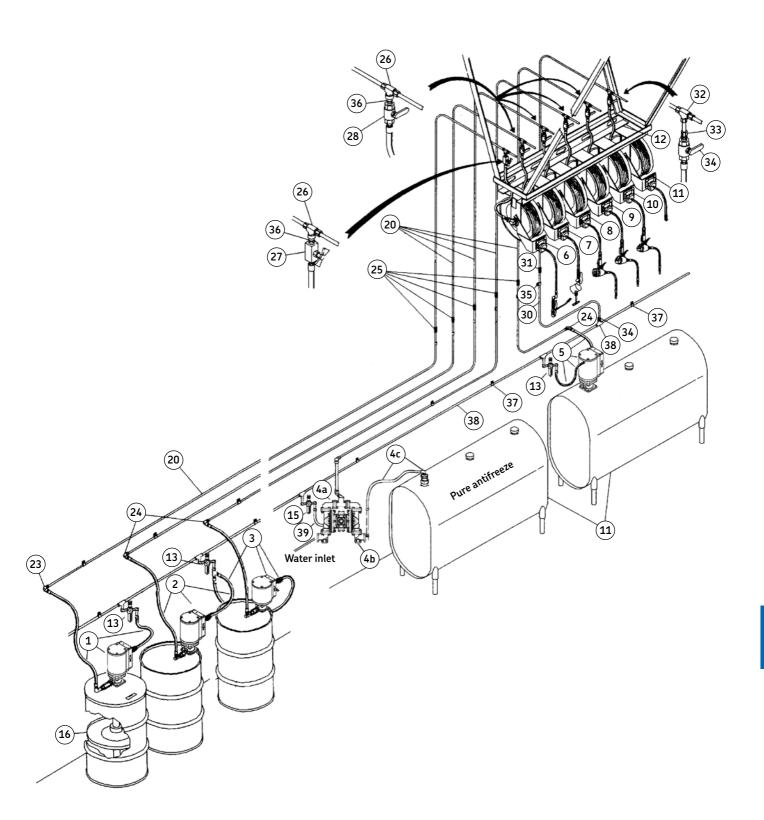
Typical installation - bill of materials, air supply lines

| Model | Code | Required | Description |
|--------|------|----------|---|
| | | | |
| 4) | 30 | 5) | Low-pressure copper tubing 3/8 in. OD or 1/2 in. OD |
| 4) | 30 | 5) | 1/2 in. schedule 40 galvanized steel pipe |
| 4) | 31 | 1 | Union |
| 4) | 32 | 1 | Tee |
| 4) | 33 | 2 | Connector 1/2 in. NPT (m) |
| 66084 | 3 | 1 | Medium-pressure quarter-turn shut-off valve 1/2 in. NPT (f) |
| 360108 | 35 | 5) | Tube clip for 1/2 in. OD tubing, 7/32 in. diameter hole |
| 11197 | 11a | 2 | Steel hex nipple 1/2 in. NPT (m) |
| 4) | 37 | 5) | Pipe clamp for 1/2 in. pipe |
| 4) | 38 | 5) | 1/2 in. schedule 40 ASTM A53 buttwelded pipe and malleable fittings |
| 72060 | 39 | | 5 ft. (1,524 m) low-pressue connecting hose |

⁴⁾ Available from local petroleum equipment service distributor ⁵⁾ Quantities vary with installation



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WARNING!

Equipment contained in this catalog can generate very high fluid pressure. Before each use, make sure safety devices are in place and operating properly. Do not alter or modify any part of the equipment as this may cause fire, explosion, property damage, or result in serious bodily injury, including injecting fluid through the skin or splashing in the eyes. To reduce the risk of serious bodily injury or property damage, never exceed the maximum air or fluid working pressure of the lowest rated system component. Always read and follow the manual included with the equipment for more detailed information.

Failure to heed these warnings may result in personal injury and/or property damage.

WARNING!

Pump models with ratios 6:1 to 49:1 930, 931, 934, 935, 936, 1901, 1902, 1903, 1905, 1906, 1909, 1914, 1932, 1933, 1934, 1937, 1938, 1939, 1951, 1952, 1955, 1996, V410000000, V406000000, V40600SSU, V40600SSU, V40600SWM, V410055BB, V41000SWM, V410055LB, V410055LT

These pumps can develop up to 1 000 psi (69 bar) working pressure 200 psi (14 bar) maximum incoming air pressure. Be sure that all system equipment and accessories are rated to withstand the maximum working pressure of this pump. **Do not** exceed the maximum working pressure of the lowest rated component in the system.

WARNING!

Pump models with ratios 50:1 to 75:1 918, 923, 926, 1418, 1426, 1904, 1910, 1911, 1935, 1941, 9917, 9989, 82050, 82054, 82716, 82991, 83122, 84683, 84684, 84667, 84668, V350120000, V350400000, V350400DC, V350400HF, V350120DC, V350400LT, V4501200000, V4504000000, V4504000DC, V450400HF, V450400HR, V450120LT, V450120LT, V450400DC, V450400DLT, V450400DLT, V450120LT, V450120LT, V450120LT, V450400LT

These pumps can develop up to 1 000 psi (69 bar) working pressure 200 psi (14 bar) maximum incoming air pressure. Be sure that all system equipment and accessories are rated to withstand the maximum working pressure of this pump. **Do not** exceed the maximum working pressure of the lowest rated component in the system.

Important: Accessory item "whip" hoses for dispensing valve are fluid pressure rated 4 500 psi (310 bar). **Do not** exceed 90 psi (6 bar) air pressure to pump when using "whip" hoses.

Do not use any whip hose with any pump rated over 50:1 ratio.

WARNING!

Models 1272, 1273D, 1276, 1292, 1297

Be sure that all accessories are rated to withstand the maximum working pressure of the pump. **Do not** exceed the maximum working pressure of the lowest rated component in the system.

WARNING!

Swivel models 80353, 80924, 81386, 81387, 81388, 81606, 81703, 81723, 81728, 81729, 81974, 82071, 82072, 82073, 82080, 82087, 82249, 82251, 82252, 82399, 82677, 83594, 82822, 83938

Material use: Lincoln swivels are to be used only to transport grease, oil and other lubricants and are designed only for these non-abrasive and non-corrosive purposes. Do not use with abrasive and corrosive materials such as sound-deadening materials which may contain limestone and mica particles. Transport of such materials causes rapid premature wear to critical swivel components and can cause failure of swivel. Failure could expose the user to severe bodily injury, permanent disfigurement or death.

Installation and service: Tighten all fluid connections securely before using swivel. Never exceed 5 000 psi (345 bar) maximum operating pressure. Never alter or modify any part of the swivel. Never attempt to repair or disassemble the swivel while the system is pressurized. Never stop or deflect leaks with hand or body.

Medical attention: Get medical attention immediately if exposed to high-pressure fluids. Tell the attending physician what was injected.

WARNING!

Pump models with ratios 1:1 to 5:1
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485, 486, 594, 595, 596, 597, 1931,
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282398, 282686, 2532, 2535,
2535LN, 2537, 282990, 284168,
284230, 284231, 284288, 284295,
284840, 284842, 282846, 284852,
284855, 284856, 284862, 284870,
285133, 285168, 285230, 285231,
285295, 285686, 285990, 84933,
84934, V305000000, V30500SSU,
V305055BB, V305016DC,
V305275BB, V30500SWM, V305055LT

These pumps can develop up to 1 000 psi (69 bar) working pressure 200 psi (14 bar) maximum incoming air pressure. Be sure that all system equipment and accessories are rated to withstand the maximum working pressure of this pump. **Do not** exceed the maximum working pressure of the lowest rated component in the system.

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