



# Vehicle Service Equipment Buyer's Guide

Fluid Handling Equipment for Industrial and Commercial Applications



Construction | Fleets and Transportation | Industrial | Mining | Energy | Agriculture

PROVEN QUALITY. LEADING TECHNOLOGY.

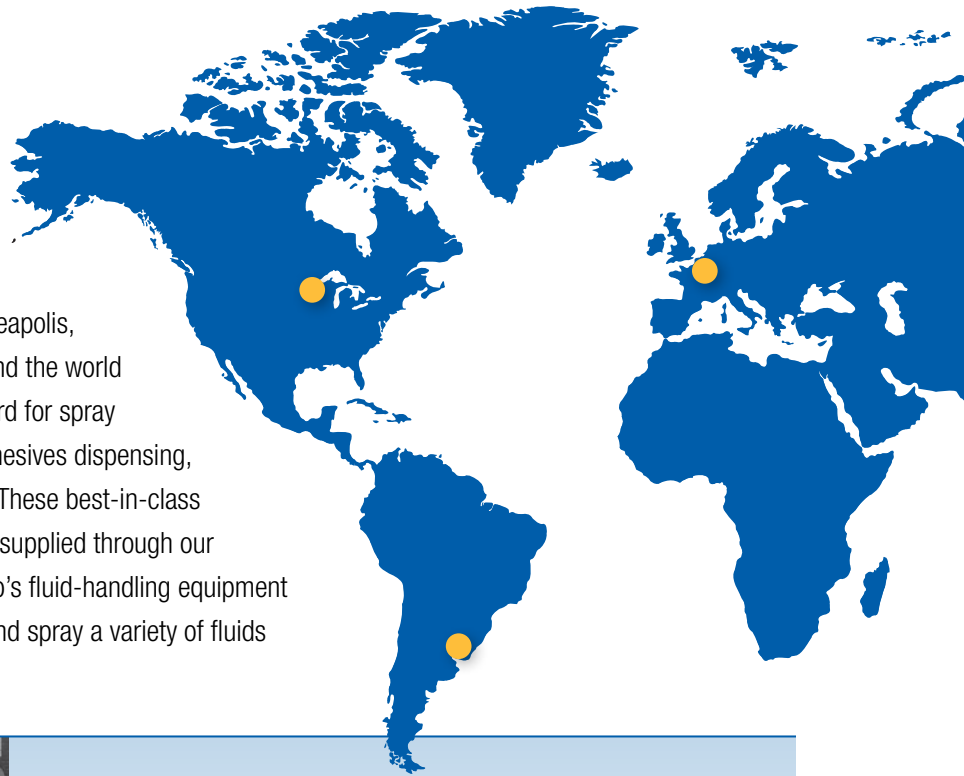


# Table of Contents

	Page		Page
<b>About Graco</b> .....	4-6	<b>▶ Diesel Exhaust Fluid (DEF) Systems</b>	
<b>Graco Resources</b> .....	6	How to Choose Your Graco DEF Solution .....	168
<b>▶ Fluid Management Systems</b>		LD Blue Electric Pumps and Packages .....	169-171
Fluid Management System Selection Guide .....	9	SD Blue AODD Pumps and Packages .....	172-174
Benefits of Pulse™ Pro Fluid Management .....	10	LD Blue Manual Pumps .....	175
Steps to Build Your Pulse Pro System .....	11	DEF Meters .....	176-177
Pulse Hub .....	12-13	DEF Dispense Nozzles .....	178-179
Pulse Dispense Meter .....	14-15	DEF Hose Reels .....	180-181
Pulse Tank Level Monitor (TLM) .....	16	DEF System Accessories .....	182-186
Pulse Pump Air Control (PAC) .....	17	<b>▶ Specialty Pumps</b>	
Pulse Extender and Remote Extender .....	18	Diaphragm Pump Selector .....	188
Pulse Roll Around Package and Accessories .....	19	Husky 1050 AODD Pump .....	189-190
Steps to Build Your Pulse FC System .....	20	Husky 307 AODD Pump .....	191
Pulse FC Software .....	21	Husky 515 AODD Pump .....	192
Pulse FC Starter Kit .....	22	Husky 716 AODD Pump .....	193
SD™ Preset Dispense Meters .....	23-24	Husky 1590 AODD Pump .....	194
Pulse FC Packages and Accessories .....	25	Husky 2150 AODD Pump .....	195
Pulse Level Fluid Management .....	26-28	Husky 3300 AODD Pump .....	196
Traditional Box – Wired Fluid Control Components .....	29	Diaphragm Pump Packages .....	197-198
<b>▶ Oil Pumps</b>		Diaphragm Pump Accessories .....	199-200
Oil Pump Selection Guide .....	32-33	Undercoating and Rustproofing Pumps .....	201-202
LD Series™ Oil Pumps .....	34-49	Undercoating and Rustproofing Pump Packages .....	203-204
LD Series™ Oil Pump Accessories .....	50-51	Undercoating and Rustproofing Accessories .....	205
Mini Fire-Ball® 225 Oil Pumps .....	52-55	Bulldog® 43:1 Oil Pump .....	206-207
Fire-Ball® 300 Oil Pumps .....	56-60	Fast-Flo® 1:1 Pumps .....	208-209
Fire-Ball® 425 Oil Pumps .....	61-64	Fast-Flo 1:1 Pump Accessories .....	210-211
Fast-Ball® Oil Pumps .....	65-66	EGP™ Transfer and EGP™ On-Demand Pumps .....	212-214
Oil Pump Accessories .....	67-72	<b>▶ Hose and Cord Reels</b>	
NXT™ High-Flo® Oil Pumps .....	73-75	Hose Reel Selection Guide .....	216
NXT Dura-Flo® Oil Pumps .....	76-79	LD™ Series Enclosed Hose Reels .....	218-220
Dyna-Star® Hydraulic Oil Pumps .....	80-81	LDX™ Series Hose Reels .....	221-222
Power-Star™ Hydraulic Oil Pumps .....	82-83	SDX™ Series Hose Reels .....	223-228
Manually Operated Oil Pumps .....	84-85	SD™ Series Cord and Light Reels .....	229-232
<b>▶ Oil Meters</b>		XDX™ Series 10/20 Hose Reels .....	233-237
Graco Dispense Meters .....	88	XD™ Series 30 Hose Reels .....	238-242
LDP5 Electronic Preset Meters .....	89-91	XD™ Series 40/50 Hose Reels .....	243-248
EM® Series Electronic Meters .....	92-94	XD™ Series 60/70/80 Powered Hose Reels .....	250-259
PM® Series Electronic Meters .....	95-97	Hose Reel Accessories .....	260-261
SD Series™ Electronic Meters .....	98-100	<b>▶ Fluid Reclaim Equipment</b>	
IM20 In-Line Electronic Meter .....	101	Oil King™ .....	264
IM20P In-Line Electronic Meter .....	102	Coolant King™ .....	265
SDI15 In-Line Electronic Meter .....	103	Oil Ace™ .....	266-268
Mechanical Meters .....	104-106	16-Gallon Mobile Receiver .....	269
SDV15 Control Valve .....	107-108	Big Hauler™ Truck Drain .....	270
XDV20 Control Valve .....	109-110	Track Receivers .....	270
Dispense Consoles .....	111-112	Diaphragm Evacuation Pumps .....	271
<b>▶ Grease Pumps</b>		Evacuation Pump Packages .....	272-274
Grease Pump Selection Guide .....	114-115	Fluid Reclaim Accessories .....	275-277
LD Series™ Grease Pumps .....	116-120	<b>▶ Accessories</b>	
LD Series™ Grease Pump Accessories .....	121-122	Air Regulators and Valves .....	280
Mini Fire-Ball® 225 Grease Pumps .....	123-126	Air Valves .....	281
Fire-Ball® 300 Grease Pumps .....	127-134	Hose Fittings .....	282
Fire-Ball® 425 Grease Pumps .....	135-141	Lubrication Hoses .....	283
Grease Pump Accessories .....	142-145	Air/Water Hoses .....	284
GT 750 36:1 Grease Pumps .....	146-147	Quick Connect Fittings .....	285
NXT™ Check-Mate® Grease Pumps .....	148-152	Adapters and Fittings .....	286-287
Dyna-Star® Hydraulic Grease Pumps .....	153-154	<b>▶ Warranty Information</b> .....	288-290
Viscount® II Grease Pumps .....	155-156	<b>▶ Index</b> .....	291-298
Manually-Operated Grease Pumps .....	157		
<b>▶ Grease Dispense Valves and Guns</b>			
Dispense Valve and Gun Selection Guide .....	158		
Accu Shot™ Metered Grease Valve .....	159		
Pro Shot™ Non-Metered Valve .....	160		
Power Shot™ Booster Valve .....	161		
Heavy-Duty Grease Guns .....	162		
Accessories .....	163-165		

# About Graco

Established in 1926, Graco has built a worldwide reputation for high quality, reliable and technically advanced products, world-class manufacturing and outstanding customer service. Headquartered in Minneapolis, Minnesota, Graco works closely with distributors around the world to offer innovative products that set the quality standard for spray finishing, paint circulation, lubrication, sealant and adhesives dispensing, process application and contractor power equipment. These best-in-class products are manufactured in the U.S. and China and supplied through our distribution centers around the world. Every day, Graco's fluid-handling equipment and systems move, measure, mix, control, dispense and spray a variety of fluids and materials.



## Lubrication Equipment Division

From the first air-powered grease gun to our industry-leading Fire-Ball pump, Graco's Lubrication Equipment Division is what started it all. We manufacture equipment to monitor, control, manage and dispense fluids. Offering innovative equipment for all your vehicle services, industrial and automatic lubrication needs. We offer a full range of high-quality pumps, meters, valves, hose reels and accessories to increase production and reduce waste and downtime.

Graco offers a full line of quality equipment to meet the varying needs of vehicle maintenance and repair. Streamline your workflow and move more lubricants through your shop. We offer reliable, high-quality equipment you can depend on for fuel, diesel, antifreeze, oil and grease. Our versatile fluid inventory control and management systems are designed to accurately track the use of oil, grease and other automotive fluids at vehicle maintenance facilities, and our lubrication equipment ensures you deliver fluids to the right spot in your shop. From light-duty applications to high-performance concepts designed for heavy-duty jobs, our equipment is known for its rugged, durable and long-life design.





**Machining** is a core competency of Graco – it enables complete control of the component parts needed to ensure precise metering, reliable dispensing and fluid movement.

When it comes to **research and development**, Graco is one step ahead, ensuring we offer the best possible solutions. To guarantee superior quality and to meet the changing requirements of your markets, we prioritize investing resources in research and development. Innovative technologies and extensive field testing are a natural part of our process to develop new products. Also, every aspect of our production is subject to constant testing and evaluation. It's the foundation to deliver products with long service life and low cost of ownership. The insurance to help you grow your business.



**We understand our customers.** We build a partnership, working and striving towards new solutions, together. We are at the service of our distribution partners, supporting you along the way. Look at Graco not just as a manufacturer or supplier but as an extension of your business. Our dedicated and experienced teams offer unique capabilities to help you meet your specific goals and challenges.

- Innovative, high-quality products with unique features
- A professional warranty and high service rate
- Purchasing conditions aimed at profitable growth
- A committed sales and marketing team for tailor-made support of expanding sales opportunities
- Continuous technical, commercial and hands-on training

Our world-class distribution centers and unrivaled global distributor network give Graco a unique industry advantage that allows us to rapidly deliver our products to end users worldwide.

Exceeding customer expectations is our priority. Our multilingual team of customer service specialists and technical engineers are available to you. Graco offers instructor-lead training sessions in the United States, EMEA and Asia Pacific. These courses teach theory and hands-on practical applications, covering basic operational to advanced technical knowledge. Each training session can be adapted to your specific needs.

Offering more than just products, we are focused on building relationships, identifying and developing business opportunities with you. Our sales team is available to collaborate, define strategies to assist in navigating through our product offering and provide advice on promotional activities.

Graco's marketing specialists investigate ways to expand the market and develop the right technologies for any application, in close cooperation with distributors and field users. We offer tailor-made

promotional and communication support, from defining strategic requirements to developing marketing campaigns, organizing events and creating digital or printed material.



# Did You Know?

**Graco also manufactures and sells a complete line of automatic lubrication systems and accessories!**



Keep your equipment running at peak performance. Graco automatic lubrication solutions give you the ultimate machine performance by lubricating key wear points – the right amount of lubricant, at the right time, in the right location. Graco has automatic lubrication solutions for the industrial, on-road mobile, off-road mobile, energy industries and more.



Visit [www.graco.com/autolube](http://www.graco.com/autolube)

## Graco Resources

Graco has developed tools and resources to help educate and better serve our distribution channel. Check them out today:



### Graco Sales Book

Stay up-to-date with the newest information from Graco by downloading the Graco Sales Book App.

Graco Sales Book is an innovative mobile application, designed to give Distributors access to Graco product information, including brochures, manuals, videos, and training documents – all on your mobile device.

Download today by visiting  
[Salesbook.graco.com](http://Salesbook.graco.com)



### Graco University

Graco University is an e-learning module that can be accessed online, anytime, and contains assets that help educate you on Graco products.

This innovative online learning program gives the tools to stay on the leading edge with a variety of resources such as virtual and instructor led courses, online books, live and on-demand video presentations, and much more.

Learn more today at  
[training.graco.com](http://training.graco.com)

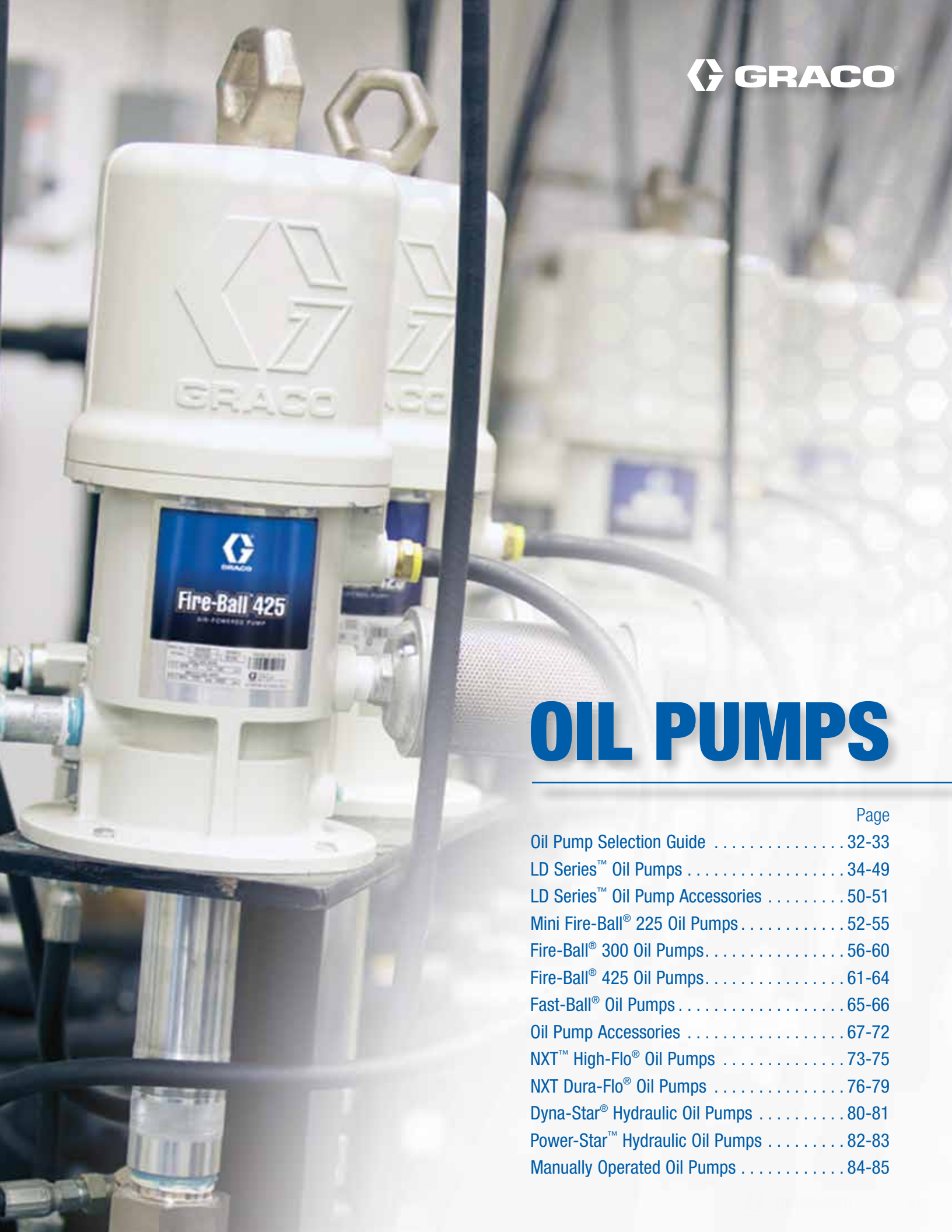


### Graco Gear

Graco Gear is your one-stop shop for branded merchandise and other tools that will help you build customer relationships.

Order shirts, hats, banners, and more whenever you need! You can even add your logo for a small fee. Most orders ship next day.

Start shopping today at  
[gracogear.com](http://gracogear.com)



# OIL PUMPS

---








	Page
Oil Pump Selection Guide . . . . .	32-33
LD Series™ Oil Pumps . . . . .	34-49
LD Series™ Oil Pump Accessories . . . . .	50-51
Mini Fire-Ball® 225 Oil Pumps . . . . .	52-55
Fire-Ball® 300 Oil Pumps . . . . .	56-60
Fire-Ball® 425 Oil Pumps . . . . .	61-64
Fast-Ball® Oil Pumps . . . . .	65-66
Oil Pump Accessories . . . . .	67-72
NXT™ High-Flo® Oil Pumps . . . . .	73-75
NXT Dura-Flo® Oil Pumps . . . . .	76-79
Dyna-Star® Hydraulic Oil Pumps . . . . .	80-81
Power-Star™ Hydraulic Oil Pumps . . . . .	82-83
Manually Operated Oil Pumps . . . . .	84-85






# Oil Pump Selection Guide

Pump Family and Fluid Pressure Ratio	Typical Applications	Annual Usage	Line Length	Simultaneous Dispense Points	Approx. Free Flow Rate @ 100 psi	Air Inlet	Fluid Inlet	Fluid Outlet	Air Operation Range	Reference Page
<b>Fast-Ball, 1:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	5,000 gal (19,00 l)	< 100 ft (30 m)	1 (no reels)	5 gpm (19 lpm)	1/4 NPT(F)	1-1/2 NPT(F)	3/4 NPT(F)	40-80 psi (2.7-12.5 bar)	66
<b>LD, 3:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Service shops</li> </ul>	20,000 gal (75,000 l)	300 ft (91 m)	1 to 2	7.8 gpm (30 lpm)	1/4 NPT(F)	1 NPT(F)	1/2 NPT(F)	20-150 psi (1.37-10.3 bar)	34
<b>LD, 5:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Service shops</li> </ul>	20,000 gal (75,000 l)	300 ft (91 m)	1 to 2	6.7 gpm (25 lpm)	1/4 NPT(F)	1 NPT(F)	1/2 NPT(F)	20-150 psi (1.37-10.3 bar)	34
<b>Mini Fire-Ball 225, 3:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	30,000 gal (113,500 l)	250 ft (76 m)	1 to 2	8.3 gpm (32 lpm)	3/8 NPT(F)	1-1/2 NPT(F)	1/2 NPT(F)	40-180 psi (2.8-12 bar)	52
<b>Fire-Ball 300, 5:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	35,000 gal (132,000 l)	500 ft (152 m)	1 to 3	12.1 gpm (46 lpm)	3/8 NPT(F)	1-1/2 NPT(F)	1/2 NPT(F)	40-180 psi (2.8-12 bar)	56
<b>Fire-Ball 425, 3:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	> 35,000 gal (132,000 l)	Up to 250 ft (76 m)	3 to 4	28.7 gpm (109 lpm)	1/2 NPT(F)	1-1/2 NPT(F)	3/4 NPT(F)	40-180 psi (2.8-12 bar)	61
<b>Fire-Ball 425, 6:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	> 35,000 gal (132,000 l)	Up to 500 ft (152 m)	3 to 4	17.1 gpm (65 lpm)	1/2 NPT(F)	1-1/2 NPT(F)	3/4 NPT(F)	40-180 psi (2.8-12 bar)	61
<b>Fire-Ball 425, 10:1</b> 	<ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	> 35,000 gal (132,000 l)	Up to 750 ft (228.6 m)	3 to 4	11.7 gpm (44 lpm)	1/2 NPT(F)	1-1/2 NPT(F)	3/4 NPT(F)	40-180 psi (2.8-12 bar)	61



Pump Family and Fluid Pressure Ratio	Typical Applications	Annual Usage	Line Length	Simultaneous Dispense Points	Air Inlet	Fluid Inlet	Fluid Outlet	Air Operation Range	Reference Page
 <b>NXT High Flo, 3.5:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul>	> 35,000 gal (132,000 l)	Up to 250 ft (76 m)	4 to 5	3/4 NPT(F)	1-1/2 NPT(F)	1 NPT(F)	20-100 psi (1.4-7 bar)	73
 <b>NXT High Flo, 4.5:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul>	> 35,000 gal (132,000 l)	Up to 450 ft (137 m)	4 to 5	3/4 NPT(F)	1-1/2 NPT(F)	1 NPT(F)	20-100 psi (1.4-7 bar)	73
 <b>NXT High Flo, 6:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul>	> 35,000 gal (132,000 l)	Up to 500 ft (152 m)	4 to 5	3/4 NPT(F)	2 NPT(F)	2 NPT(F)	20-75 psi (1.4-5.2 bar)	73
 <b>NXT Dura-Flo, 6:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul>	> 35,000 gal (132,000 l)	Up to 500 ft (152 m)	2 to 4	3/4 NPT(F)	2 NPT(F)	1-1/2 NPT(F)	20-100 psi (1.4-7 bar)	75
 <b>NXT Dura-Flo, 10:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul>	> 35,000 gal (132,000 l)	Up to 750 ft (228.6 m)	2 to 4	3/4 NPT(F)	2 NPT(F)	1-1/2 NPT(F)	20-100 psi (1.4-7 bar)	76
 <b>NXT Dura-Flo, 12:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul>	> 35,000 gal (132,000 l)	Up to 1000 ft (305 m)	2 to 4	3/4 NPT(F)	2 NPT(F)	1-1/2 NPT(M)	20-100 psi (1.4-7 bar)	76
 <b>NXT Dura-Flo, 23:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul>	> 35,000 gal (132,000 l)	Up to 1000 ft (305 m)	2 to 4	3/4 NPT(F)	2 NPT(F)	1-1/2 NPT(M)	20-75 psi (1.4-5.2 bar)	76

Pump Family and Fluid Pressure Ratio	Typical Applications	Maximum Output Flow Rate	Maximum Fluid Output Pressure	Hydraulic Inlet	Hydraulic Outlet	Fluid Inlet	Fluid Outlet	Maximum Hydraulic Inlet Pressure	Reference Page
 <b>Dyna-Star 1:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	3 gpm (11 lpm)	1500 psi (102 bar)	3/8 NPT(F)	3/4 NPT(F)	1-1/2 NPT(F)	1/2 NPT(F)	1500 psi (102 bar)	80
 <b>Dyna-Star 1/4:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	10 gpm (38 lpm)	375 psi (25.1 bar)	3/8 NPT(F)	3/4 NPT(F)	1-1/2 NPT(F)	1/2 NPT(F)	1500 psi (102 bar)	80
 <b>Power-Star 1:1</b>	<ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul>	12 gpm (45 lpm)	1500 psi (102 bar)	3/4 NPT(F)	1-1/4 NPT(F)	1-1/2 NPT(F)	1/2 NPT(F)	1500 psi (102 bar)	82



**5 Year Warranty!**

## Durable and Hardworking

Stay ahead of the competition with LD Series pumps. These affordable and full-featured pumps are designed for lower-volume applications. LD pumps are fine-tuned for a compact, flexible and durable solution.

### Three Inch Air Motor

Provides more power to create better flow.

### Engineered for Durability

Patented cup and plate design eliminates the need for O-rings that wear out faster, for a more durable, longer-lasting solution.

### Modular Air Valve

Air inlet and exhaust locations are easy to configure with just four bolts for simple, hassle-free installations.

### Pilot Valves

Patented self-cleaning design increases reliability in dirty air environments and minimizes pressure drop with rapid changeovers for reduced stalling and smoother flow.

### Built-In Thermal Relief and Inlet Strainer

Built-in thermal relief protects your equipment from thermal expansion, and an inlet strainer is built in to protect pump from contaminants.

## Typical Applications

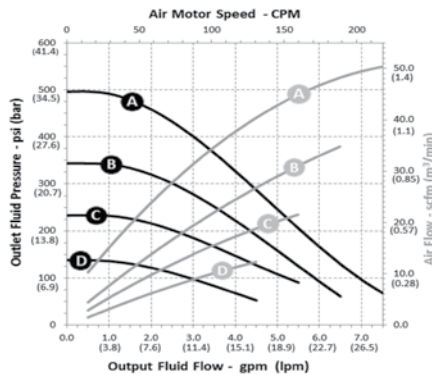
- Automotive dealerships
- Fast lube centers
- Service shops

## Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

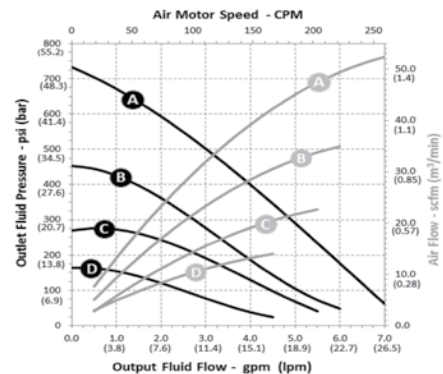
## Pump Performance

### LD Series 3:1 Pumps



**Inlet Air Pressures:**  
**A** = 150 psi (10.3 bar)  
**B** = 100 psi (6.9 bar)  
**C** = 70 psi (4.8 bar)  
**D** = 40 psi (2.8 bar)  
**Test Fluid:** ISO 46 Hydraulic Oil

### LD Series 5:1 Pumps



**Inlet Air Pressures:**  
**A** = 150 psi (10.3 bar)  
**B** = 100 psi (6.9 bar)  
**C** = 70 psi (4.8 bar)  
**D** = 40 psi (2.8 bar)  
**Test Fluid:** ISO 46 Hydraulic Oil



## Technical Specifications

	LD Series 3:1	LD Series 5:1
Fluid Pressure Ratio	3:1	5:1
Air Motor Effective Diameter	3 in (76.2 mm)	3 in (76.2 mm)
Maximum Fluid Working Pressure	450 psi (31 bar / 3.1 MPa)	750 psi (51.7 bar / 5.17 MPa)
Approximate Free Flow Rate @ 100 psi	7.8 gal/min (30 liters/min)	6.7 gal/min (25 liters/min)
Output per Cycle	131 cc	102 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	18 scfm @ 2.8 gpm (0.51 m <sup>3</sup> /min @ 10.6 lpm)	18 scfm @ 2.1 gpm (0.51 m <sup>3</sup> /min @ 8.0 lpm)
Air Inlet	1/4 in	1/4 in
Fluid Inlet	1 in	1 in
Fluid Outlet	1/2 in	1/2 in
Air Operation Range	20 psi to 150 psi (1.37 bar to 10.3 bar)	20 psi to 150 psi (1.37 bar to 10.3 bar)
Maximum Recommended Pump Speed	120 cpm	180 cpm
Cycles per Gallon (liter)	29 (7.7)	37 (9.8)
Wetted Parts	Zinc plated carbon, steel, aluminum, nitrile, polyurethane, nickel plated aluminum	Zinc plated carbon, steel, aluminum, nitrile, polyurethane, nickel plated aluminum
Sound Pressure Level	72.9 dB(A)	72.9 dB(A)
Sound Power Level	82 dB(A)	82 dB(A)
Approximate Weight	7 lb (3.2 kg)	7.7 lb (3.5 kg)
Instruction Manual	3A1334	3A1334

## Ordering Information

### LD Series 3:1 Pumps

Part Number	Description
24G576	3:1 Universal oil pump with bung adapter (24F918)
24G579	3:1 Oil pump with cut-to-length PVC downtube (16F878) and bung adapter (24F918)
24G582	3:1 Oil pump with 55 gal (200 liter) downtube (16F886) and bung adapter (24F918)
24G585	3:1 Oil pump with 275 gal (1,040 liter) steel downtube (16F885) and bung adapter (24F918)

### LD Series 5:1 Pumps

Part Number	Description
24G588	5:1 Universal oil pump with bung adapter (24F918)
24G591	5:1 Oil pump with cut-to-length PVC downtube (16F878) and bung adapter (24F918)
24G594	5:1 Oil pump with 55 gal (200 liter) steel downtube (16F886) and bung adapter (24F918)
24G597	5:1 Oil pump with 275 gal (1,040 liter) steel downtube (16F885) and bung adapter (24F918)

# LD Series 3:1 Oil Pump Packages



## Ordering Information

### Mobile Oil Packages – Cart

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24H751	24H750	24H753	24H752	24H775	24H774	24H777	24H776
Ratio	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576	24G576	24G576	24G576	24G576
Suction Tube Size	200 L	200 L	200 L	200 L	200 L	200 L	200 L	200 L
Pump Downtube	16F886	16F886	16F886	16F886	16F886	16F886	16F886	16F886
Meter Type	Manual	Manual	Preset	Preset	Manual	Manual	Preset	Preset
Meter Part Number	25C903	25C904	256216	255277	25C903	25C904	256216	255277
Meter Extension	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible
Hose Kit	24J495	24J495	24J495	24J495	24H865	24H865	24H865	24H865
Hose Reel Type	LDX	LDX	LDX	LDX	-	-	-	-
Hose Size	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft	-	-	-	-
Hose Reel	HEM004	HEM004	HEM004	HEM004	-	-	-	-
55 gal Cart	24F915	24F915	24F915	24F915	24F915	24F915	24F915	24F915
Instruction Manual	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335

Oil Pumps and Packages

Package 24H775 installed on a 55 gallon drum (not included in package).







## Ordering Information

### Mobile Oil Packages – Dolly

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	25C551	25C553	25C550	25C552
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Container Size	16 gal (120 lb)	16 gal (120 lb)	55 gal (400 lb)	55 gal (400 lb)
Pump Downtube	16F878	16F878	16F886	16F886
Meter Type	Manual	Preset	Manual	Preset
Meter Part Number	25C903	256216	25C903	256216
Meter Extension	Rigid	Rigid	Rigid	Rigid
Hose Kit	24H865	24H865	24H865	24H865
Portable Base	131184	131184	129645	129645
Instruction Manual	3A1335	3A1335	3A1335	3A1335

## Ordering Information

### Wall Mount Oil Packages

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24H689	24H695
Ratio	3:1	3:1
Pump Part Number	24G576	24G576
Suction Tube Size	55 gal drum	275 gal tote
Suction Hose Kit	24F935	24H666
Hose Kit	-	24H859
Wall Mount Bracket	24F910	24F910
Instruction Manual	3A1335	3A1335



Package 24H695 installed on a 275 gallon tote (not included in package).

### Stationary Oil Packages

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



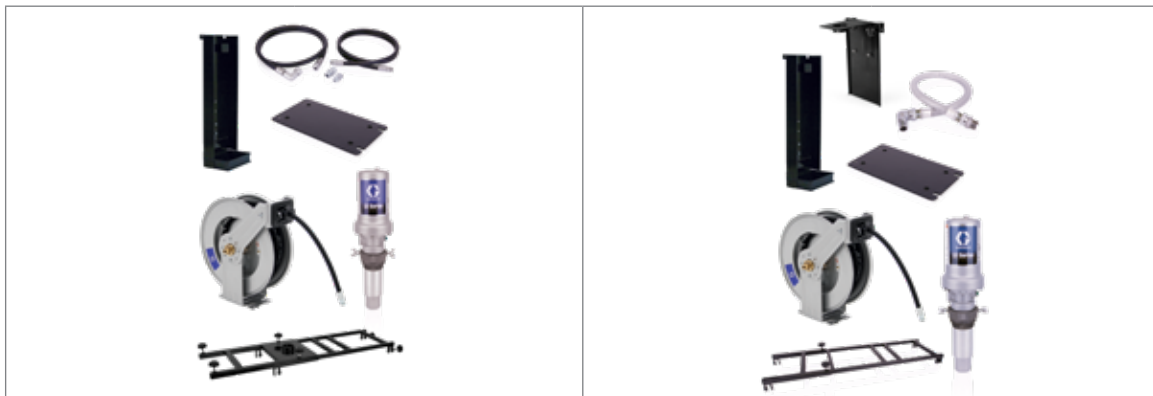
Package Number	24H800	24H799	24H802	24H801
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Suction Tube Size	Universal	Universal	Universal	Universal
Pump Downtube	16F878	16F878	16F878	16F878
Meter Type	Manual	Manual	Preset	Preset
Meter Part Number	25C903	25C904	256216	255277
Meter Extension	Rigid	Flexible	Rigid	Flexible
Hose Kit	24H859	24H859	24H859	24H859
Instruction Manual	3A1335	3A1335	3A1335	3A1335



## Ordering Information

### Stationary Oil Packages – Tote

Standard packages include LD Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



				
Package Number	24H702	24H704	24H726	24H728
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Suction Tube Size	275 gal (1,040 l)	275 gal (1,040 l)	275 gal (1,040 l)	275 gal (1,040 l)
Pump Downtube	16F885	16F885	24H669	24H669
Mounting Position	Top	Top	Drain	Drain
Reel Type	LDX	LDX	LDX	LDX
Hose Reel Part Number	HEM004	HEM004	HEM004	HEM004
Hose Size	1/2 in x 35 ft	1/2 in x 35 ft	1/2 in x 35 ft	1/2 in x 35 ft
Reel Bracket Kit	24K285	24K285	24K285	24K285
Meter Type	Manual	Preset	Manual	Preset
Meter Part Number	25C903	256216	25C903	256216
Meter Extension	Rigid	Rigid	Rigid	Rigid
Hose Kit	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose
Hose Kit Part Number	24J495	24J495	24J495	24J495
Top Mount Tote Bracket	24F930	24F930	24F931	24F931
Tote Mount Pump Bracket	–	–	24F920	24F920
Meter Tray	24F914	24F914	24F914	24F914
Instruction Manual	3A1335	3A1335	3A1335	3A1335

Oil Pumps and Packages

## Ordering Information

### Deluxe Stationary Oil Packages – Tote

Deluxe packages include SDX Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24K838	24K842
Ratio	3:1	3:1
Pump Part Number	24G576	24G576
Suction Tube Length	275 gal (1,040 l)	275 gal (1,040 l)
Pump Downtube	16F885	16F885
Reel Type	SDX	SDX
Hose Reel Part Number	SDM6HB	SDM6HB
Meter Type	Preset	Manual
Meter Part Number	256216	25C904
Meter Extension	Rigid	Flexible
Hoses and Fittings	24J495	24J495
Top Mount Tote Bracket	24F930	24F930
SDX Reel/IBC Tote Bracket	24K285	24K285
Meter Tray	24F914	24F914
Instruction Manual	3A1335	3A1335





## Ordering Information

### Tank Mount Oil Packages

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24J776	24J733	24J734	24K836
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Hose Reel Type	LDX	SDX	SDX	SDX
Hose Reel	HEM004	SDM6HB	SDM6HB	SDM6HB
Meter Type	Manual	Manual	Preset	Manual
Meter Part Number	25C903	25C903	256216	25C904
Meter Extension	Rigid	Rigid	Rigid	Flexible
Inlet Kit	25U371	218549	218549	218549
Instruction Manual	3A1335	3A1335	3A1335	3A1335

# LD Series 3:1 Oil Pump Packages



## Ordering Information

### Deluxe Tank Mount Oil Packages

Deluxe packages include SDX hose reel, air and fluid hoses with fittings, and mini air regulator.



Package Number	24K777	24K797	24K799	24K834
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Hose Reel Type	SDX	SDX	SDX	SDX
Hose Size	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 35 ft
Hose Reel	SDM6HB	SDM6HB	SDM6HB	SDM33B
Meter Type	Preset	Manual	Manual	Manual
Meter Part Number	256216	25C903	25C904	25C903
Meter Extension	Rigid	Rigid	Flexible	Rigid
Air and Fluid Hoses with Fittings	24J495	24J495	24J495	24J495
Mini Air Regulator with Gauge	24H420	24H420	24H420	24H420
Instruction Manual	3A1335	3A1335	3A1335	3A1335



## Ordering Information

### Mobile Oil Packages – Cart

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24H916	24H915	24H918	24H917	24H941	24H940	24H943	24H942
Ratio	5:1	5:1	5:1	5:1	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588	24G588	24G588	24G588	24G588
Suction Tube Size	200 L	200 L	200 L	200 L	200 L	200 L	200 L	200 L
Pump Downtube	16F886	16F886	16F886	16F886	16F886	16F886	16F886	16F886
Meter Type	Manual	Manual	Preset	Preset	Manual	Manual	Preset	Preset
Meter Part Number	25C903	25C904	256216	255277	25C903	25C904	256216	255277
Meter Extension	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible
Hose Kit	24J495	24J495	24J495	24J495	24H865	24H865	24H865	24H865
Hose Reel Type	LDX	LDX	LDX	LDX	-	-	-	-
Hose Size	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft	-	-	-	-
Hose Reel	HEM004	HEM004	HEM004	HEM004	-	-	-	-
55 gal Cart	24F915	24F915	24F915	24F915	24F915	24F915	24F915	24F915
Instruction Manual	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335

Oil Pumps and Packages



Package 24H941 installed on a 55 gallon drum (not included in package).

# LD Series 5:1 Oil Pump Packages



## Ordering Information

### Mobile Oil Packages – Dolly

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	25C555	25C557	25C554	25C556
Ratio	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588
Container Size	16 gal (120 lb)	16 gal (120 lb)	55 gal (400 lb)	55 gal (400 lb)
Pump Downtube	16F878	16F878	16F886	16F886
Meter Type	Manual	Preset	Manual	Preset
Meter Part Number	25C903	256216	25C903	256216
Meter Extension	Rigid	Rigid	Rigid	Rigid
Hose Kit	24H865	24H865	24H865	24H865
Portable Base	131184	131184	129645	129645
Instruction Manual	3A1335	3A1335	3A1335	3A1335





## Ordering Information

### Wall Mount Oil Packages

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24H836	24H842
Ratio	5:1	5:1
Pump Part Number	24G588	24G588
Suction Tube Size	55 gal drum	275 gal tote
Suction Hose Kit	24F935	24H666
Hose Kit	-	24H859
Wall Mount Bracket	24F910	24F910
Instruction Manual	3A1335	3A1335



Package 24H842 installed on a 275 gallon tote (not included in package).

Oil Pumps and Packages

### Stationary Oil Packages

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24H965	24H964	24H967	24H966
Ratio	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588
Suction Tube Size	Universal	Universal	Universal	Universal
Pump Downtube	16F878	16F878	16F878	16F878
Meter Type	Manual	Manual	Preset	Preset
Meter Part Number	25C903	25C904	256216	255277
Meter Extension	Rigid	Flexible	Rigid	Flexible
Hose Kit	24H859	24H859	24H859	24H859
Instruction Manual	3A1335	3A1335	3A1335	3A1335

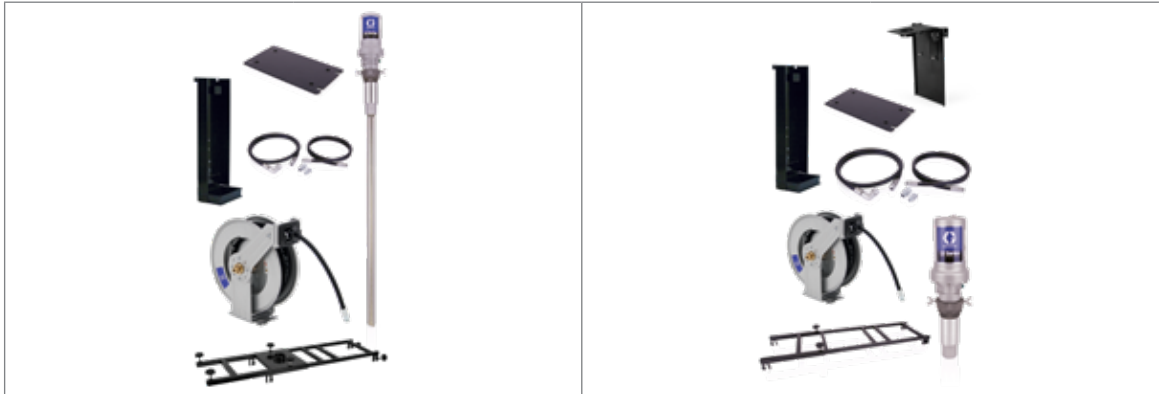
# LD Series 5:1 Oil Pump Packages



## Ordering Information

### Stationary Oil Packages – Tote

Standard packages include LD Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24H868	24H870	24H892	24H894
Ratio	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588
Suction Tube Size	275 gal (1,040 l)	275 gal (1,040 l)	275 gal (1,040 l)	275 gal (1,040 l)
Pump Downtube	16F885	16F885	24H669	24H669
Mounting Position	Top	Top	Drain	Drain
Reel Type	LDX	LDX	LDX	LDX
Hose Reel Part Number	HEM004	HEM004	HEM004	HEM004
Hose Size	1/2 in x 35 ft	1/2 in x 35 ft	1/2 in x 35 ft	1/2 in x 35 ft
Reel Bracket Kit	24K285	24K285	24K285	24K285
Meter Type	Manual	Preset	Manual	Preset
Meter Part Number	25C903	256216	25C903	256216
Meter Extension	Rigid	Rigid	Rigid	Rigid
Hose Kit	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose	6 ft x 3/8 in air hose / 6 ft x 1/2 in fluid hose
Hose Kit Part Number	24J495	24J495	24J495	24J495
Top Mount Tote Bracket	24F930	24F930	24F931	24F931
Tote Mount Pump Bracket	–	–	24F920	24F920
Meter Tray	24F914	24F914	24F914	24F914
Instruction Manual	3A1335	3A1335	3A1335	3A1335



## Ordering Information

### Deluxe Stationary Oil Packages – Tote

Deluxe packages include SDX Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24K839	24K843
Ratio	5:1	5:1
Pump Part Number	24G588	24G588
Suction Tube Length	275 gal (1,040 l)	275 gal (1,040 l)
Pump Downtube	16F885	16F885
Reel Type	SDX	SDX
Hose Reel Part Number	SDM6HB	SDM6HB
Hose Reel Bracket	24K285	24K285
Meter Type	Preset	Manual
Meter Part Number	256216	25C904
Meter Extension	Rigid	Flexible
Hoses and Fittings	24J495	24J495
Top Mount Tote Bracket	24F930	24F930
Meter Tray	24F914	24F914
Instruction Manual	3A1335	3A1335

Oil Pumps and Packages

## Ordering Information

### Oil Packages – Tank Mount

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



Package Number	24J777	24J735	24J736	24K837
Ratio	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588
Reel Type	LDX	SDX	SDX	SDX
Hose Reel Part Number	HEM004	SDM6HB	SDM6HB	SDM6HB
Meter Type	Manual	Manual	Preset	Manual
Meter Part Number	25C903	25C903	256216	25C904
Meter Extension	Rigid	Rigid	Rigid	Flexible
Inlet Kit	25U371	218549	218549	218549
Instruction Manual	3A1335	3A1335	3A1335	3A1335





## Ordering Information

### Deluxe Oil Packages – Tank Mount



Deluxe packages include SDX hose reel, air and fluid hoses with fittings, and mini air regulator.




Package Number	24K796	24K798	24K800	24K835
Ratio	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588
Reel Type	SDX	SDX	SDX	SDX
Hose Size	1/2 in x 50 ft (12.7 mm x 15 m)	1/2 in x 50 ft (12.7 mm x 15 m)	1/2 in x 50 ft (12.7 mm x 15 m)	1/2 in x 35 ft (12.7 mm x 10.6 m)
Hose Reel Part Number	SDM6HB	SDM6HB	SDM6HB	SDM33B
Meter Type	Preset	Manual	Manual	Manual
Meter Part Number	256216	25C903	25C904	25C903
Meter Extension	Rigid	Rigid	Flexible	Rigid
Air and Fluid Hoses with Fittings	24J495	24J495	24J495	24J495
Mini Air Regulator with Gauge	24H420	24H420	24H420	24H420
Instruction Manual	3A1335	3A1335	3A1335	3A1335

## Ordering Information


### Air Regulators

	Part Number	Description
	24H420	Mini air pressure regulator with gauge, 1/4 in NPT x 3/8 in NPT, self-relieving
	133215	Mini air filter-regulator with gauge, 1/4 in NPT, self-relieving, semi-auto drain


### Carts

	Part Number	Description
	24F915	Drum cart with pneumatic wheels for 55 gallon drums, includes chain for securing drum to cart


### LD Drum Dollies

	Part Number	Description
	131183	Drum dolly for 35 lb (16 kg) drum
	131184	Drum dolly for 120 lb (54 kg) drum
	129645	Drum dolly for 400 lb (182 kg) drum


### Downtubes

	Part Number	Description
	16F878	Universal cut to length PVC downtube
	16F886	Drum length steel downtube
	16F885	Tote length steel downtube

### Drum Covers

	Part Number	Description
	24F904	Cover for 35 lb (16 kg) pails
	24F905	Cover for open-head 120 lb drums
	24F906	Cover for open-head 400 lb drums


### Hose and Fitting Kits

	Part Number	Description	Kit Includes			
			Fluid Hose	Air Hose	Swivel	Union Fitting
	24H865	15 ft LD pump fluid hose kit	1/2 in x 15 ft	3/8 in x 6 ft	157705	156684
	24H859	6 ft LD pump fluid hose kit	1/2 in x 6 ft	3/8 in x 6 ft	157705	156684





## Ordering Information







### Suction Kits

	Part Number	Description
	24F935	LD oil pump suction hose kit for 55 gal (200 L) drum. Includes 55 gal (200 L) drum length metal downtube, bung adapter, foot valve and 6 ft of 1 in suction hose
	24H666	LD oil pump suction hose kit for 275 gal (1,040 L) drum. Includes 275 gal (1,040 L) tote length metal downtube, bung adapter, foot valve and 6 ft of 1 in suction hose
	24H669	LD oil pump suction hose kit and adapter for mounting pump to the side of IBC tote and dispensing from drain. Includes 1 in x 3 ft suction hose, 1 in elbow fitting and union fitting (160022)

### Mounting Hardware

	Part Number	Description
	24F910	LD Series pump wall mounting bracket
	24F918	Bung adapter

### Tote Mount Accessories

	Part Number	Description
	24F914	Meter drip tray for mounting to the side of IBC tote
	24F932	LD Series reel bracket for mounting reel to IBC top mount tote bracket (24F930 and 24F920)
	24F931	Tote mounting bracket to mount reel on top of IBC tote (pump mounting bracket is not included)
	24F930	Top of tote mounting bracket. For mounting LD Series pump in top of IBC tote.
	24F920	Bracket for mounting LD Series pump on the side of IBC tote
	24K285	Bracket for mounting SDX Series hose reel to IBC tote mounting bracket 24F930 (24F930 bracket sold separately)



**7 Year  
Warranty!**

## Perfect for Medium Pressure, Low-Volume Applications

You can't afford downtime, especially when your shop is small. The Mini Fire-Ball 225 is designed with fewer moving parts, which means less wear and tear and reduced downtime, allowing you to run a more profitable business.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

Oil Pumps and Packages

### Typical Applications

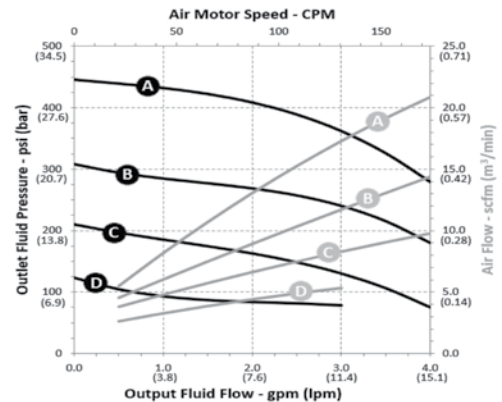
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

### Pump Performance

#### Mini Fire-Ball 225 3:1 Pumps



**Inlet Air Pressures:**  
**A** = 150 psi (10.3 bar)  
**B** = 100 psi (6.9 bar)  
**C** = 70 psi (4.8 bar)  
**D** = 40 psi (2.8 bar)  
**Test Fluid :**  
 No. 10 Weight Oil



## Technical Specifications

Fluid Pressure Ratio	3:1
Air Motor Effective Diameter	2.25 in (57.2 mm)
Maximum Fluid Working Pressure	540 psi (37 bar / 3.7 MPa)
Approximate Free Flow Rate @ 100 psi	8.3 gal/min (32 liters/min)
Output per Cycle	87 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	9 scfm @ 1.9 gpm (0.25 m <sup>3</sup> /min @ 7.2 lpm)
Air Inlet	3/8 in NPT(F)
Fluid Inlet	1-1/2 in NPT(F)
Fluid Outlet	1/2 in NPT(F)
Air Operation Range	40 psi to 180 psi (2.8 bar to 12 bar)
Maximum Recommended Pump Speed	100 cpm
Cycles per Gallon (Liter)	43.5 (11.5)
Wetted Parts	Steel, Buna-N, polyurethane, aluminum, Rulon <sup>®</sup>
Sound Pressure Level	77.8 dB(A)
Sound Power Level	85.6 dB(A)
Approximate Weight	16 lb (7.3 kg)
Instruction Manual	309868

## Ordering Information

### Mini Fire-Ball 225 3:1 Pumps

Part Number	Description
246775	3:1 Universal oil pump
248097	3:1 Universal oil pump with suction tube (15C502) and bung adapter (222308)

# Mini Fire-Ball 225 3:1 Oil Pump Packages



## Ordering Information

### Oil Packages



Package Number	246903*	246904*	246906*	246907**	248230**
Ratio	3:1	3:1	3:1	3:1	3:1
Package Type	Portable	Cover-mounted	Cover-mounted	Bung-mounted	Bung-mounted
Maximum Container Size	16 gal (60 l)	16 gal (60 l)	55 gal (200 l)	55 gal (200 l)	275 gal (1,040 l)
Pump	248097	248097	248097	248097	246775
Meter Type	Manual	-	-	-	-
Meter Part Number	25M413	-	-	-	-
Meter Extension	Rigid	-	-	-	-
Dispense/ Hose Fitting Kit	237075	222063	222063	222063	222062
Fluid Hose Size	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 1.5 ft (12.7 mm x 0.46 m)
Air Hose Size	-	3/8 in x 6 ft (9.5 mm x 1.8 m)	3/8 in x 6 ft (9.5 mm x 1.8 m)	3/8 in x 6 ft (9.5 mm x 1.8 m)	3/8 in x 1.5 ft (9.5 mm x 0.46 m)
Air Regulator	224512	224512	224512	-	-
Pump Shim	17C270	17C270	17C270	-	-
Cover	24R350	24R350	200326	-	-
Caster Base	203622	-	-	-	-
Instruction Manual	307884	307883	307883	307883	309868

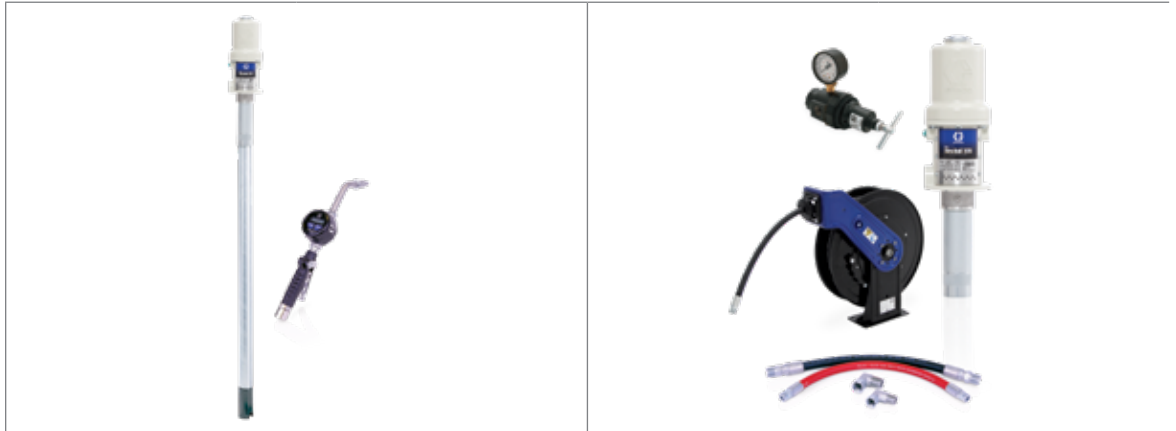
\*Order low-level shut-off (203688) (1-1/2 in NPT) separately for metered dispense systems.

\*\*Order low-level shut-off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) air regulator (109075) as required; must be ordered separately.



## Ordering Information

### Bulk Oil Dispensing Packages



Package Number	248623*	248622*	24F205	24F206
Ratio	3:1	3:1	3:1	3:1
Pump	248097	248097	246775	246775
Bung Adapter	-	-	222308	222308
Reel Size	1/2 in x 50 ft (12.7 mm x 15.2 m)	1/2 in x 35 ft (12.7 mm x 11 m)	1/2 in x 50 ft (12.7 mm x 15.2 m)	1/2 in x 50 ft (12.7 mm x 15.2 m)
Reel Type	SDX	SDX	SDX	SDX
Hose Reel	SDM6HB	SDM33B	SDM6HB	SDM6HB
Meter Type	EM8	EM8	Mechanical	EM8
Manual/Preset	Manual	Manual	Manual	Manual
Meter	25C903	25C903	24V034	25C903
Installation Kit	-	-	222062	222062
Air Regulator	-	-	109075	109075
Instruction Manual	309868, 312668, 313431	309868, 312668, 313431	309868, 313431	309868, 313431

\*Order (218549) (1/2 in x 24 in) hose kit separately.



**7 Year  
Warranty!**

## Ideal for Medium-Sized Shops with High-Pressure Oil Transfer

Install the Fire-Ball 300 in high-pressure, medium-volume oil dispense applications such as automotive dealerships, fast lube centers and service shops. A three inch differential air motor ensures smooth pumping, and the smooth double-acting pump design provides reliable fluid flow and accurate dispense.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

Oil Pumps and Packages

### Typical Applications

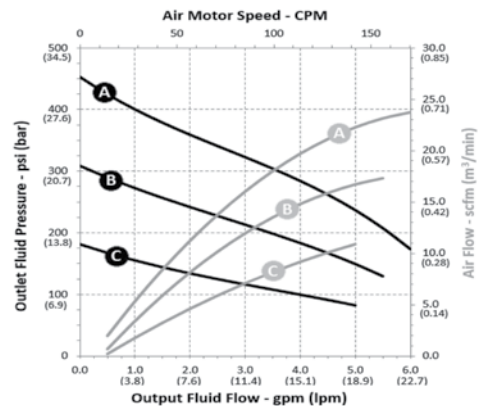
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

### Pump Performance

#### Fire-Ball 300 5:1 Pumps



Inlet Air Pressures:

- A = 100 psi (6.9 bar)
- B = 70 psi (4.8 bar)
- C = 40 psi (2.8 bar)

Test Fluid :  
ISO 46 Oil



## Technical Specifications

Fluid Pressure Ratio	5:1
Air Motor Effective Diameter	3 in (76.2 mm)
Maximum Fluid Working Pressure	900 psi (62 bar / 6.2 MPa)
Approximate Free Flow Rate @ 100 psi	12.1 gal/min (46 liters/min)
Output per Cycle	133 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	16 scfm @ 2.8 gpm (0.45 m <sup>3</sup> /min @ 10.6 lpm)
Air Inlet	3/8 in NPT(F)
Fluid Inlet	1-1/2 in NPT(F)
Fluid Outlet	1/2 in NPT(F)
Air Operation Range	40 psi to 180 psi (2.8 bar to 12 bar)
Maximum Recommended Pump Speed	70 cpm
Cycles per Gallon (Liter)	28.4 (7.5)
Wetted Parts	Steel, polyurethane, aluminum, Buna-N
Sound Pressure Level	77.8 dB(A)
Sound Power Level	85.6 dB(A)
Approximate Weight	17 lb (7.7 kg)
Instruction Manual	306518

## Ordering Information

### Fire-Ball 300 5:1 Pumps

Part Number	Description
203876	5:1 Universal oil pump
203872	5:1 Oil pump, 16 gal (120 lb) drum size, for cover mount
203857	5:1 Oil pump, 55 gal (400 lb) drum size, for cover mount
204254	5:1 Oil pump, 55 gal (400 lb) drum size, bung mount
222087	5:1 Oil pump, 275 gal (1,040 lb) tank size, bung mount

# Fire-Ball 300 5:1 Oil Pump Packages



## Ordering Information

### Oil Pump Packages



Package Number	225728*	225094**	225642**	225640**	225931**	225852**
Ratio	5:1	5:1	5:1	5:1	5:1	5:1
Package Type	Portable	Cover-mounted	Cover-mounted	Bung-mounted	Bung-mounted	Universal
Maximum Container Size	16 gal (60 l)	16 gal (60 l)	55 gal (200 l)	55 gal (200 l)	275 gal (1,040 l)	Universal
Pump	203872	203872	203857	204254	222087	203876
Meter Type	Manual	–	–	–	–	–
Meter Part Number	25M413	–	–	–	–	–
Meter Extension	Rigid	–	–	–	–	–
Dispense/ Hose Fitting Kit	237075	222063	222063	222063	222063	222062
Fluid Hose Size	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 1.5 ft (12.7 mm x 0.46 m)
Air Hose Size	–	3/8 in x 6 ft (9.5 mm x 1.8 m)	3/8 in x 6 ft (9.5 mm x 1.8 m)	3/8 in x 6 ft (9.5 mm x 1.8 m)	3/8 in x 6 ft (9.5 mm x 1.8 m)	3/8 in x 1.5 ft (9.5 mm x 0.46 m)
Air Regulator	224512	224512	224512	–	–	–
Cover	24R350	24R350	200326	–	–	–
Caster Base	203622	–	–	–	–	–
Bung Adapter	–	–	–	222308	222308	–
Instruction Manual	307884	307883	307883	307883	307883	306520

\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) installation kit (224512) as required.

\*\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) air regulator (109075) as required; must be ordered separately.



## Ordering Information

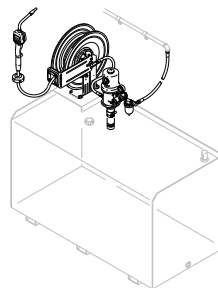
### Bulk Oil Dispensing Packages



Package Number	241633*	224541*	244038*	224534*
Ratio	5:1	5:1	5:1	5:1
Dispensing Location	-	-	-	Bench/Top Tank
Pump	203876	203876	203876	203876
Regulator/Gauge	109075	109075	109075	109075
Nipple	156849	156849	156849	156849
Bung Adapter	222308	222308	222308	222308
Reel Size	1/2 in x 35 ft	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft
Reel Type	SDX	SDX	SDX	SDX
Hose Reel	SDM33B	SDM6HB	SDM6HB	SDM6HB
Type of Meter	SD	SD	SD	SD
Manual/Preset	Manual	Manual	Preset	Manual
Meter	25M404	25M404	26C384	25M404
90° Swivel	-	-	-	157416
Air Filter	-	-	-	106148
Drain Valve	-	-	-	127711
Hose	-	220598	220598	222063
Thermal Relief Valve	-	-	-	237893
Hose Reel Inlet Kit (Not Included)	218549	218549	218549	218549

\*Order (218549) (1/2 in x 24 in) hose reel inlet kit separately.

Package 224534 installed on a bulk tank (not included in package).



## Ordering Information

### Lube Truck Packages



Package Number	222086*	206655*	204264*
Ratio	5:1	5:1	5:1
Package Type	Lube truck	Lube truck	Lube truck
Maximum Container Size	16 gal (60l) open-head	55 gal (200l) closed-head	55 gal (200l) closed-head
Pump	203872	203857	204254
Dispense/ Hose Fitting Kit	222063	222063	222063
Fluid Hose Size	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)
Cover	222060	207367	–
Pump Clamp	–	–	204095
Hold Down Kit	222061	207361	207361
Bung Adapter	–	–	224579
Instruction Manual	307883	307883	307883

\*Order 3/8 in (9.5 mm) air regulator and gauge (109075) separately.





**10 Year  
Warranty!**

## The Pump of Choice for Your Most Demanding High-Volume Applications

The Fire-Ball 425 features a 4.25 inch air motor to supply the power you need for long pipe runs and higher-volume dispensing. An ideal choice for applications where multiple dispenses happen at the same time.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated “dirty” air environments for long life without repair.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

#### Typical Applications

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

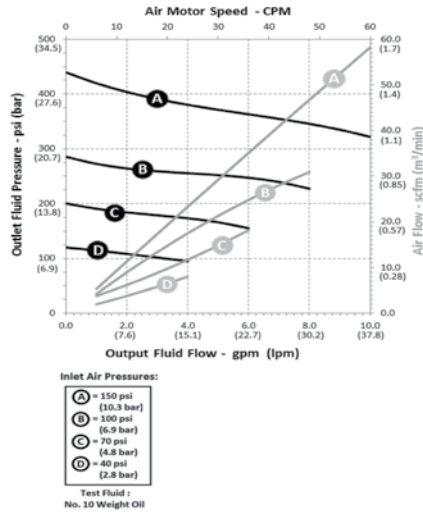
#### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

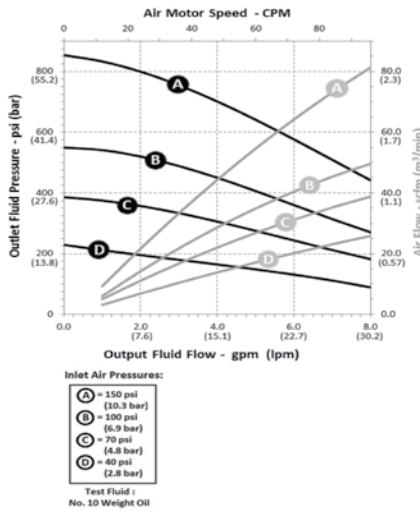


## Pump Performance

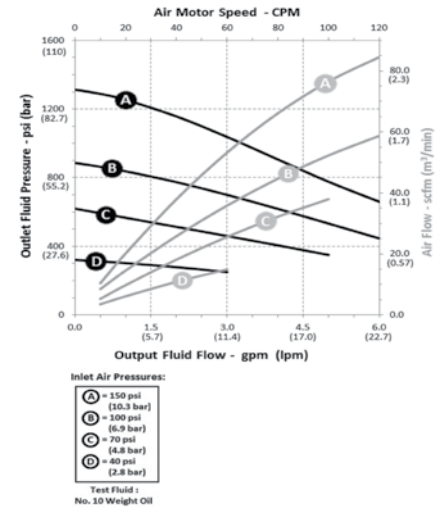
### Fire-Ball 425 3:1 Pumps



### Fire-Ball 425 6:1 Pumps



### Fire-Ball 425 10:1 Pumps



## Technical Specifications

	3:1	6:1	10:1
Fluid Pressure Ratio	3:1	6:1	10:1
Air Motor Effective Diameter	4.25 in (107.9 mm)	4.25 in (107.9 mm)	4.25 in (107.9 mm)
Maximum Fluid Working Pressure	540 psi (37 bar / 3.7 MPa)	1,100 psi (76 bar / 7.6 MPa)	1,800 psi (124 bar / 12.4 MPa)
Approximate Free Flow Rate @ 100 psi	28.7 gal/min (109 liters/min)	17.1 gal/min (65 liters/min)	11.7 gal/min (44 liters/min)
Output per Cycle	631 cc	261 cc	189 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	43 scfm @ 13.4 gpm (1.23 m <sup>3</sup> /min @ 50.6 lpm)	44 scfm @ 6.7 gpm (1.25 m <sup>3</sup> /min @ 25.4 lpm)	45 scfm @ 4.0 gpm (1.27 m <sup>3</sup> /min @ 15.2 lpm)
Air Inlet	1/2 in NPT(F)	1/2 in NPT(F)	1/2 in NPT(F)
Fluid Inlet	1-1/2 in NPT(F)	1-1/2 in NPT(F)	1-1/2 in NPT(F)
Fluid Outlet	3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)
Air Operation Range	40 psi to 180 psi (2.8 bar to 12 bar)	40 psi to 180 psi (2.8 bar to 12 bar)	40 psi to 180 psi (2.8 bar to 12 bar)
Maximum Recommended Pump Speed	66 cpm	78 cpm	60 cpm
Cycles per Gallon (Liter)	6 (1.6)	14.5 (3.8)	20 (5.3)
Wetted Parts	Steel, polyurethane, aluminum, nitrile	Steel, polyurethane, aluminum, nitrile	Steel, polyurethane, aluminum, nitrile
Sound Pressure Level	82 dB(A)	79.5 dB(A)	78 dB(A)
Approximate Weight	46 lb (20.9 kg)	35 lb (15.9 kg)	29 lb (13.2 kg)
Instruction Manual	308485	308608	308655

## Ordering Information

### Fire-Ball 425 Pumps

Part Number	Description
237526	3:1 Universal oil pump
238108	6:1 Universal oil pump
205626	10:1 Universal oil pump
222065	10:1 Oil pump, 55 gal (400 lb) drum size, cover mount
222095	10:1 Oil pump, 55 gal (400 lb) drum size, bung mount



## Ordering Information

### Oil Pump Packages



Package Number	244846	244628*	244847	225782**	225786**	225853**
Package Type	Wall-mounted	Wall-mounted	Wall-mounted	Cover-mounted	Bung-mounted	Universal supply
Maximum Container Size	Universal	Universal	Universal	55 gal (200 l)	55 gal (200 l)	Universal
Ratio	3:1	6:1	10:1	10:1	10:1	10:1
Pump	237526	238108	205626	222065	222095	205626
Hose/Fitting Kit	222068	222068	222068	222066	222066	222068
Fluid Hose Size	3/4 in x 1.5 ft	3/4 in x 1.5 ft	3/4 in x 1.5 ft	3/4 in x 6 ft	3/4 in x 6 ft	3/4 in x 1.5 ft
Air Hose Size	1/2 in x 1.5 ft	1/2 in x 1.5 ft	1/2 in x 1.5 ft	1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 1.5 ft
Cover	-	-	-	200326	-	-
Filter, Regulator, Lubricator [FRL]	217072	217072	217072	-	-	-
Air Shutoff Valve	110225	110225	110225	-	-	-
Fluid Shutoff Valve	108537	108537	108537	-	-	-
Wall Mount Bracket	238245	238245	238245	-	-	-
Instruction Manual	309351	309351	309351	307883	307883	306520

\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense systems.

\*\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense. Use 1/2 in (12.7 mm) air regulator (104266) and air pressure gauge (100960) as required; must be ordered separately.

## Ordering Information

### Lube Truck Packages



Package Number	206656*	222067*
Ratio	10:1	10:1
Package Type	Lube truck	Lube truck
Maximum Container Size	55 gal (200 l) closed-head	55 gal (200 l) closed-head
Pump	222065	222095
Dispense/ Hose Fitting Kit	222066	222066
Fluid Hose Size	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm x 1.8 m)
Offset Cover	207367	–
Pump Clamp	–	204095
Hold Down Kit	207361	207361
Bung Adapter	–	224579
Instruction Manual	307883	307883

\*Order 1/2 in (12.7 mm) air regulator (104266) and gauge (100960) separately.



**5 Year  
Warranty!**

## Used for Low-Volume Transfer of Petroleum-Base Lubricants

This air-operated piston pump is ideal for pumping petroleum and synthetic-based oils and provides a continuous duty flow rate of up to 5 gpm.



### High-Quality Air Motor

Differential air motor ensures smooth pumping.

### Fewer Repairs

In-line design with fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Reliable Fluid Flow

Double-acting pump provides reliable fluid flow.

### Durable

Rated for continuous duty in challenging applications.

### Typical Applications

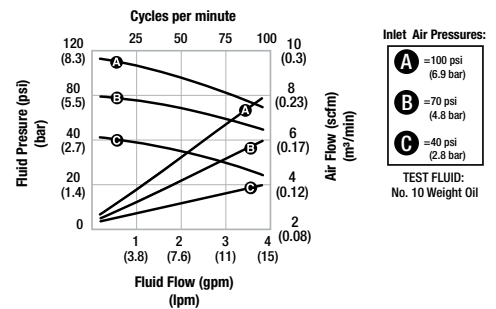
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

### Pump Performance

#### Fast-Ball 1:1 Pumps



# Fast-Ball 1:1 Oil Pumps



## Technical Specifications

Fluid Pressure Ratio	1:1
Air Motor Effective Diameter	1.4 in (35.6 mm)
Maximum Fluid Working Pressure	180 psi (12.5 bar / 1.25 MPa)
Approximate Free Flow Rate @ 100 psi	5 gal/min (19 liters/min)
Output per Cycle	151 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	7 scfm @ 3.1 gpm (0.20 m <sup>3</sup> /min @ 11.7 lpm)
Air Inlet	1/4 in NPT(F)
Fluid Inlet	1-1/2 in NPT(F)
Fluid Outlet	3/4 in NPT(F)
Air Operation Range	40 psi to 180 psi (2.8 bar to 12.4 bar)
Maximum Recommended Pump Speed	100 cpm
Cycles per Gallon	25 cpg
Cycles per Liter	6.6 cpl
Wetted Parts	CS, polyurethane
Sound Pressure Level	74.9 dB(A)
Sound Power Level	83.5 dB(A)
Approximate Weight	8 lb to 14 lb (3 kg to 7 kg)
Instruction Manual	307906

## Ordering Information

### Pumps



Pump Number	222103	222104	222051
Ratio	1:1	1:1	1:1
Type of Package	Bung-mounted	Bung-mounted	Universal
Container Size	55 gal (200 l)	275 gal (1,040 l)	Universal
Bung Adapter	222308	222308	—
Instruction Manual	307906	307906	307906

### Pump Packages



Package Number	222602	239702
Ratio	1:1	1:1
Type of Package	Non-metered dispense	Metered dispense
Container Size	55 gal (200 l)	55 gal (200 l)
Pump	222103	222103
Dispense Kit	218115	239703
Regulator Assembly	218316	218316
Hose	109125	—
Hose Length	6 ft (1.8 m)	—
Bung Adapter	222308	222308
Instruction Manual	307637	307637



Use the quick-reference guide below to determine the part and accessory options available for our most popular oil pumps.



## Oil Pump Mounting and Accessory Guide


Pump	Fast-Ball 1:1	Mini Fire-Ball 225 3:1	Fire-Ball 300 5:1	Fire-Ball 425 3:1	Fire-Ball 425 6:1	Fire-Ball 425 10:1
Bung Adapter	222308	222308	222308	–	–	222308
Connection Hose Kit	222118 (18 in / 4537 cm) 222119 (72 in / 182.8 cm)	222062 (18 in / 45.7 cm) 222063 (72 in / 182.8 cm)	222062 (18 in / 45.7 cm) 222063 (72 in / 182.8 cm)	238246 (24 in / 60.9 cm)	238246 (24 in / 60.9 cm)	222068 (18 in / 4537 cm) 222066 (72 in / 182.8 cm)
Wall Mounting Bracket	203987	203987	203987	238245	238245	203987
Thermal Relief Kit*	–	235998	237893	237601	240429	240429
Air Regulator and Gauge	110147	109075	109075	104266 / 100960	104266 / 100961	104266 / 100962
Air Filter	110146	106148	106148	106149	106149	106149
Air Lubricator	110148	214847	214847	214848	214848	214848
Filter, Regulator, Lubricator, and Gauge	110149	110150	110150	217072	217072	217072
Airline Shutoff Valve	110223	110224	110224	110225	110225	110225
Fluid Shutoff Valve	108537	108458	108458	108537	108537	108537
Fluid Outlet Filter	240417	240417	240417	101078	–	–
Low-Level Cutoff	203688	203688	203688	203688	203688	203688
Suction Hose Kit	236054	236054	236054	–	–	–

\*Required



# Oil Pump Accessories

## Ordering Information


### Bleed-Type Air Shut-Off Valves

	Part Number	Description
	110223	1/4 in NPT
	110224	3/8 in NPT
	110225	1/2 in NPT
	110226	3/4 in NPT


### Bung Adapters

	Part Number	Description	Compatible Pumps	Includes				
				Double Tap bushing	Bushing Sleeve	1 ft x 3/8 in Hose	90° 3/8 in Adapter	Thumb Screw
	222308	Allows direct mounting of all universal length and extended pumps to standard 2 NPT drum bung	Fast-Ball 1:1 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1	-	-	-	-	-
	187754	Acetal bung adapter	All pumps	-	-	-	-	100220
	176684	Bung adapter for suction kit 203992	-	-	-	-	-	100220
	238125	For mounting universal pumps to tanks	Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1	191075	172405	238370	155494	-


### Carts

	Part Number	Compatible Container Size
	203650	5 gal (20 l) 10 gal (40 l) 16 gal (60 l)
	222243	120 lb (55 kg)
	111470	55 gal (200 l)

### Clamps


	Part Number	Description	Compatible Pumps
	203156	Used to hold pump securely to the edge of an open top drum	Fast-Ball 1:1 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 6:1 Fire-Ball 425 10:1

### Dispense Kits for Mini Fire-Ball and Fire-Ball 300 Pumps


	Part Number	Description	Hose Length	Includes		
	237075	Use with portable lubricators powered by Fire-Ball 300 Pump	6 ft	Fluid Hose	Manual SD Gear Lube Valve	Manual
				220591	255349	307884

## Ordering Information


### Downtube – Universal

	Part Number	Description
	15C502	1-1/2 in ID tube marked for standard container lengths from 20 in to 41 in (.51 m to 1.04 m)


### Drum Covers

	Part Number	Container Size	Compatible Pumps
	200326	55 gal (200 l)	Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1
	24R350	16 gal (60 l)	Fast-Ball 1:1 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 3:1, 6:1, 10:1
	222058	5 gal (20 l)	Fast-Ball 1:1 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1, 15:1
160754	55 gal (200 l) 16 gal (60 l) 5 gal (20 l)	Bung-mounted pumps	


### Drum Elevator

	Part Number	Description	Includes		
			Cover Support	Drum Elevator	Air Control Kit
241663	Air-powered elevator to speed up 55 gal (200 l) drum changes	207562	204385	207561	

### Fluid Shut-Off Valves

	Part Number	Description
	108458	1/2 in NPT
	108537	3/4 in NPT
	110314	1 in NPT


### Fluid T-Strainers

	Part Number	Description
	240417	1/2 in inlet, 60 mesh strainer, which prevents foreign material from entering dispense lines
	240418	3/8 in inlet, 60 mesh strainer, which prevents foreign material from entering dispense lines
	238433	40 mesh replacement element, 3 count
	238434	40 mesh replacement element, 25 count
	238431	60 mesh (standard) replacement element, 3 count
	238432	60 mesh (standard) replacement element, 25 count
238429	100 mesh replacement element, 3 count	



# Oil Pump Accessories

## Ordering Information


### Fluid Y-Strainers

	Part Number	Description
	110877	1/2 in NPT inlet/outlet strainer, which filters material before entering the pump
	110906	1/2 in NPT inlet/outlet strainer, replacement screen
	101078	3/4 in NPT inlet/outlet strainer, which filters material before entering the pump
	180199	3/4 in NPT inlet/outlet strainer, replacement screen
	110878	1 in NPT inlet/outlet strainer, which filters material before entering the pump
	110907	1 in NPT inlet/outlet strainer replacement screen

### Hose and Fitting Kits for Mini Fire-Ball 225 and Fire-Ball 300 5:1


	Part Number	Description	Connection Length	Includes			
				Air Hose	Air Hose Swivel Elbow	Fluid Hose	Fluid Hose Swivel Elbow
	222062	For connecting wall-mounted pumps to piping	18 in	204560	155494	220598	155470
	222063	Use with drum-mounted pumps	6 ft	203320	155494	220591	155470

### Hose and Fitting Kits for Fire-Ball 425 Pumps



	Part Number	Description	Hose Length	Package Includes				
				Air Hose	Air Hose Swivel Elbow	Fluid Hose	Fluid Hose Swivel Elbow	Manual
	222068	For connecting wall-mounted Fire-Ball 425 10:1 pump to piping	15 in	218093	155470	109108	160327	306520
	238246	For connecting wall-mounted Fire-Ball 425 3:1 and 6:1 pumps to piping	24 in	218903	155470	238247	160327	306520
	222066	For use with drum-mounted Fire-Ball 425 10:1 pump	6 ft	205418	155470	109105	160327	307883

## Ordering Information

### Low-Level Cutoffs for Fast-Ball and Fire-Ball Pumps


	Part Number	Description
	203688	1-1/2 in NPT cutoff, which prevents air from entering pump when fluid supply from pump is exhausted

### Portable Bases


	Part Number	Description	Compatible Container Size
	205054	Band dolly	5 gal (20 l)
	204144	Band dolly	10 gal (40 l) 16 gal (60 l)
	203622	Caster base	5 gal (20 l) 10 gal (40 l) 16 gal (60 l)

### Runaway Valve


Prevents pump damage by automatically closing the air line to stop the pump when a runaway pump condition occurs due to an empty barrel or hose leak.

	Part Number	Inlet
	224040	3/4 in NPT(fbe)

### Sealed Bung Adapters

	Part Number	Fire-Ball Length	Adapter Inside Diameter	Compatible Pumps
	204076	Full length	2.140 in	Mini Fire-Ball 225 3:1
	224579	Universal length	2.159 in	All except Mini Fire-Ball 225 3:1


### Suction Kits

	Part Number	Description	Includes		
			Bung Adapter	Bushing Pipe	6 ft Hose
	236054	Allows use of Fast-Ball, Mini-Fire-Ball and Fire-Ball universal pumps to work with barrels	188845	101496	109105


# Oil Pump Accessories

## Ordering Information


### Suction Tubes

	Part Number	Container Size	Type of Mount	Compatible Pumps	Includes		
					Extension Size	Extension	Foot Spacer
	238592	16 gal (60 l)	Cover-mounted	Fast-Ball 1:1 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1	14-1/2 in	191126	110127
	238593	55 gal (200 l)	Cover-mounted		21-3/4 in	191128	110127
	238595	55 gal (200 l)	Bung-mounted		26 in	191130	110127
	238596	275 gal (1,100 l)	Bung-mounted		36 in	191131	110127


### Thermal Relief Valve Kits

	Part Number	Pressure Rating	Compatible Pumps	Includes			
				Valve	Bung Adapter	Swivel	Hose
	235998	600 psi (41 bar)	Mini Fire-Ball 225 3:1	112174	191075	155494	238370
	237893	900 psi (62 bar)	Fire-Ball 300 5:1	102527	191075	155494	238370
	248296	900 psi (62 bar)	Fire-Ball 300 5:1	102527	–	–	109163
	237601	600 psi (41 bar)	Fire-Ball 425 3:1	112174	191075	155494	238370
	240429	1,600 psi (110 bar)	Fire-Ball 425 6:1 Fire-Ball 425 10:1	102527	191075	155494	238370
	248324	1,600 psi (110 bar)	Fire-Ball 425 6:1 Fire-Ball 425 10:1	113053	–	–	109163

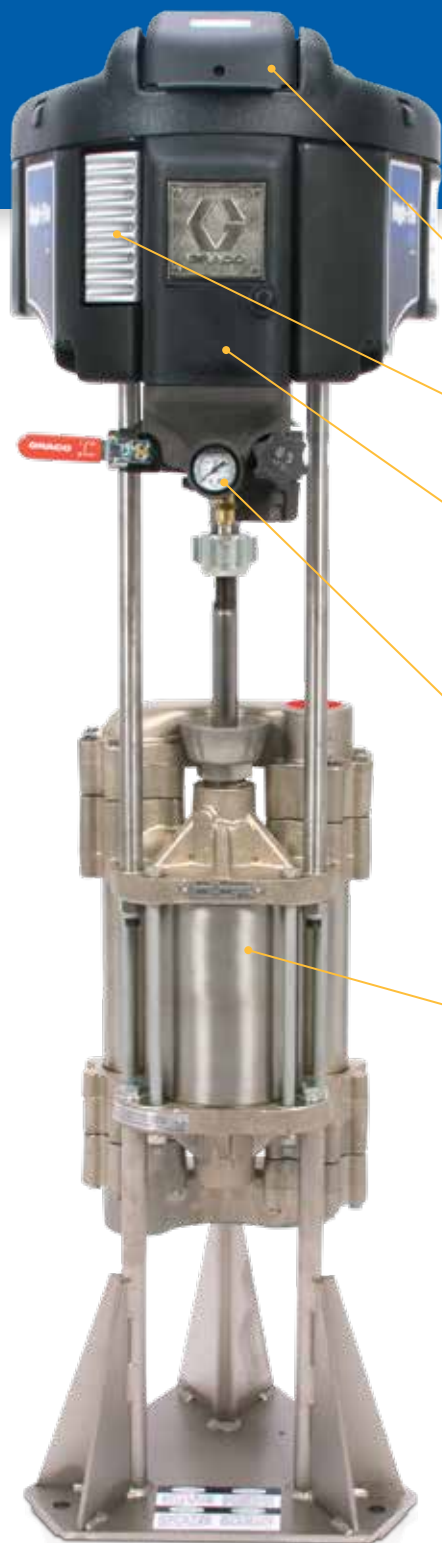
### Tools for Working on Fire-Ball Air Motors

	Part Number	Description
	207579	Padded pliers
	171818	Poppet gauge
	168085	Insert tool

### Wall-Mounting Brackets

	Part Number	Description	Compatible Pumps
	203987	Clamps onto universal pump tube	Fast-Ball 1:1 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1
	238245	Mounts directly to pump flange	Fire-Ball 425 3:1, 6:1, 10:1
	236778	Provides mounting to wall surface by flange	Fire-Ball 425 3:1





## Move Large Amounts of Oil Fast

Tested to outperform and outlast all other pumps on the market – with its long-life design and intuitive, easy-to-use controls – the NXT High-Flo pump is the best value for the money. Fewer parts, faster repairs and long-lasting durability.

### Optional DataTrak™ Control

Intuitive, easy-to-use DataTrak control gives you pump diagnostics, material usage tracking and pump runaway protection.

### NXT Air Motor

Modular design for easier maintenance with rugged body armor that won't rust or dent.

### Modular Air Valves

Easy-to-repair valve eliminates stalling and contains de-icing controls.

### Integrated Air Controls

Easy-turn, lockable regulator is front-mounted for easy access. Compact and modular with built-in filtration.

### Piston Valve with Floating Piston Seal

For maximum pressure balance over a range of material viscosities.

#### Typical Applications

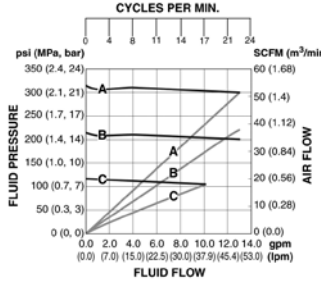
- Fleet service facilities
- In-plant
- Mining

#### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

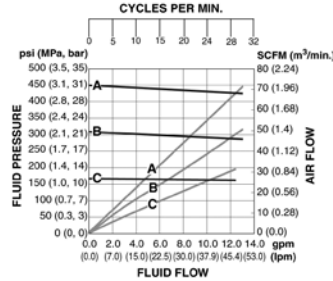
## Pump Performance

### NXT 3.5:1 High-Flo Pumps



Inlet Air Pressures:  
**A** = 100 psi (6.9 bar)  
**B** = 70 psi (4.8 bar)  
**C** = 40 psi (2.8 bar)  
 TEST FLUID:  
 No. 10 Weight Oil

### NXT 4.5:1 High-Flo Pumps



Inlet Air Pressures:  
**A** = 100 psi (6.9 bar)  
**B** = 70 psi (4.8 bar)  
**C** = 40 psi (2.8 bar)  
 TEST FLUID:  
 No. 10 Weight Oil

## Technical Specifications

Fluid Pressure Ratio	3.5:1	4.5:1
Air Motor Effective Diameter	7.5 in (191 mm)	7.5 in (191 mm)
Maximum Fluid Working Pressure	350 psi (24 bar / 2.4 MPa)	450 psi (31 bar / 3.1 MPa)
Output per Cycle	2,000 cc	1,500 cc
Air Inlet	3/4 in NPT(F)	3/4 in NPT(F)
Fluid Inlet	1-1/2 in NPT(F)	1-1/2 in NPT(F)
Fluid Outlet	1 in NPT(F)	1 in NPT(F)
Air Operation Range	20 psi to 100 psi (1.4 bar to 7 bar)	20 psi to 100 psi (1.4 bar to 7 bar)
Maximum Recommended Pump Speed	60 cpm	60 cpm
Cycles per Gallon (Liter)	1.9 (0.5)	2.5 (0.67)
Wetted Parts	Stainless steel, PTFE, leather, UHMWPE, carbon steel	Stainless steel, PTFE, leather, UHMWPE, carbon steel
Sound Pressure Level	77 dB(A)	77 dB(A)
Sound Power Level	87 dB(A)	87 dB(A)
Approximate Weight	99 lb (44.9 kg)	99 lb (44.9 kg)
Instruction Manuals	System – 312862 Pump – 311211 Pump Lower – 311690 Motor – 311238	System – 312862 Pump – 311211 Pump Lower – 311690 Motor – 311238

## Ordering Information

### Oil Pump Packages with DataTrak

Package Number with DataTrak	247888	247889
Ratio	3.5:1	4.5:1
Mounting	255143 (Wall)	255143 (Wall)
Pump with DataTrak and Thermal Relief Kit	24D590	24D591
Output per Cycle	2,000 cc	1,500 cc
Output at 60 CPM	31.5 gpm (119.2 lpm)	23.2 gpm (87.8 lpm)
Motor Size	NXT 3400	NXT 3400
Maximum Fluid Pressure	350 psi (24.1 bar)	450 psi (31 bar)
Maximum Air Input Pressure	100 psi (6.9 bar)	100 psi (6.9 bar)
System Manual	312862	312862
Pump Manual	311211	311211
Pump Lower Manual	311690	311690
Motor Manual	311238	311238
Pump Inlet Size	1-1/2 in NPT	1-1/2 in NPT
Pump Outlet Size	1 in NPT	1 in NPT
4 ft x 3/4 in Air Hose	110048	110048
6 ft x 1 in Fluid Hose	115042	115042
Instruction Manual	309351	309351

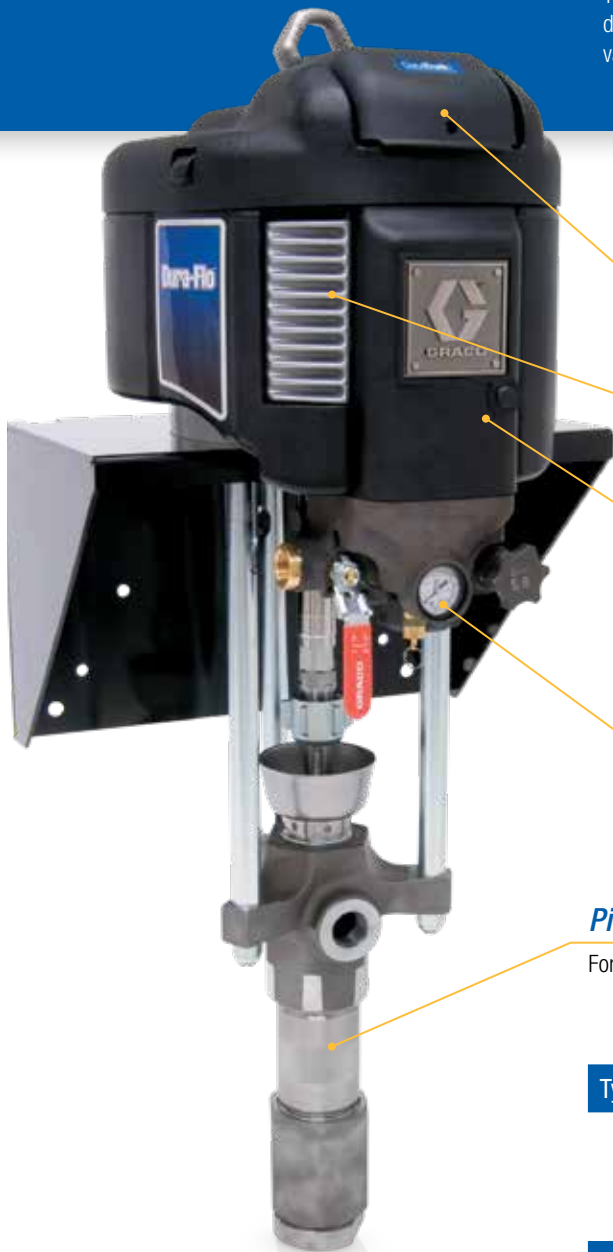
### Oil Pump Packages without DataTrak

Package Number without DataTrak	24D602	24D603
Ratio	3.5:1	4.5:1
Mounting	255143 (Wall)	255143 (Wall)
Pump without DataTrak and Thermal Relief Kit	24D596	24D597
Output per Cycle	2,000 cc	1,500 cc
Output at 60 CPM	31.5 gpm (119.2 lpm)	23.2 gpm (87.8 lpm)
Motor Size	NXT 3400	NXT 3400
Maximum Fluid Pressure	350 psi (24.1 bar)	450 psi (31 bar)
Maximum Air Input Pressure	100 psi (6.9 bar)	100 psi (6.9 bar)
System Manual	312862	312862
Pump Manual	311211	311211
Pump Lower Manual	311690	311690
Motor Manual	311238	311238
Pump Inlet Size	1-1/2 in NPT	1-1/2 in NPT
Pump Outlet Size	1 in NPT	1 in NPT
4 ft x 3/4 in Air Hose	110048	110048
6 ft x 1 in Fluid Hose	115042	115042
Instruction Manual	309351	309351



## Move Large Amounts of Oil Fast

Tested to outperform and outlast all other pumps on the market – with its long-life design and intuitive, easy-to-use controls – the NXT Dura-Flo pump is the best value for the money. Fewer parts, faster repairs and long-lasting durability.



### Optional DataTrak™ Control

Intuitive, easy-to-use DataTrak control gives you pump diagnostics, material usage tracking and pump runaway protection.

### NXT Air Motor

Modular design for easier maintenance with rugged body armor that won't rust or dent.

### Modular Air Valves

Easy-to-repair valve eliminates stalling and contains de-icing controls.

### Integrated Air Controls

Easy-turn, lockable regulator is front-mounted for easy access. Compact and modular with built-in filtration.

### Piston Valve with Floating Piston Seal

For maximum pressure balance over a range of material viscosities.

#### Typical Applications

- Fleet service facilities
- In-plant
- Mining

#### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)



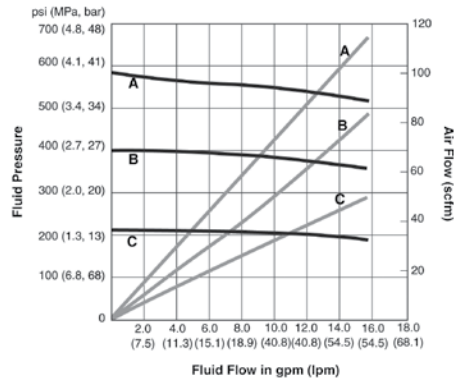
## Pump Performance

### Inlet Pressures:

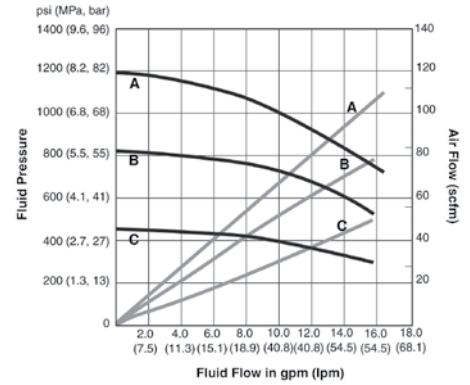
- A** = 100 psi (6.9 bar) air pressure or 1500 (103 bar) hydraulic oil pressure
- B** = 70 psi (4.8 bar) air pressure or 1050 (72 bar) hydraulic oil pressure
- C** = 40 psi (2.8 bar) air pressure or 600 (41 bar) hydraulic oil pressure

TEST FLUID: No. 10 Weight Oil

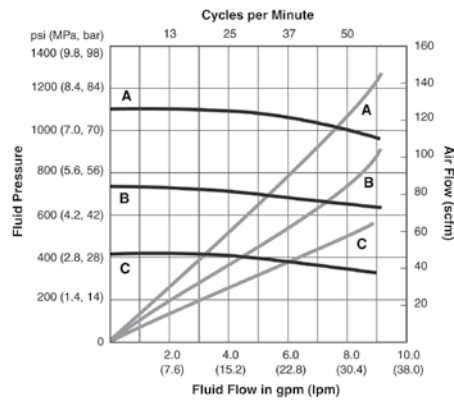
### NXT Dura-Flo 6:1 Pumps



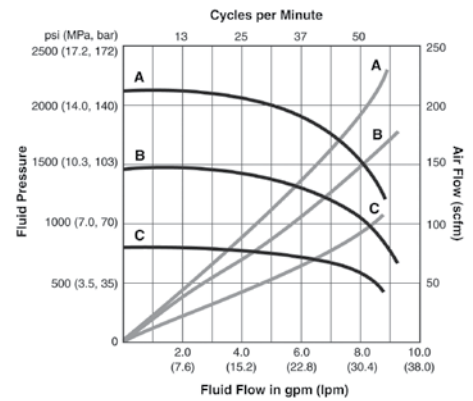
### NXT Dura-Flo 10:1 Pumps



### NXT Dura-Flo 12:1 Pumps



### NXT Dura-Flo 23:1 Pumps





## Technical Specifications

Fluid Pressure Ratio	6:1	10:1	12:1	23:1
Air Motor Effective Diameter	7.5 in (191 mm)	10.375 in (264 mm)	7.5 in (191 mm)	10.375 in (264 mm)
Maximum Fluid Working Pressure	620 psi (43 bar / 4.3 MPa)	1,180 psi (81 bar / 8.1 MPa)	1,190 psi (82 bar / 8.2 MPa)	1,725 psi (119 bar / 11.9 MPa)
Output per Cycle	1,000 cc	1,000 cc	580 cc	580 cc
Air Inlet	3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)
Fluid Inlet	2 in NPT(F)	2 in NPT(F)	2 in NPT(F)	2 in NPT(F)
Fluid Outlet	1-1/2 in NPT(F)	1-1/2 in NPT(F)	1-1/2 in NPT(F)	1-1/2 in NPT(F)
Air Operation Range	20 psi to 100 psi (1.4 bar to 7 bar)	20 psi to 100 psi (1.4 bar to 7 bar)	20 psi to 100 psi (1.4 bar to 7 bar)	20 psi to 75 psi (1.4 bar - 5.2 bar)
Maximum Recommended Pump Speed	60 cpm	60 cpm	60 cpm	60 cpm
Cycles per Gallon (Liter)	3.8 (1.0)	3.8 (1.0)	6.5 (1.72)	6.5 (1.72)
Wetted Parts	Stainless steel, CS, chrome, zinc, nickel, Buna-N, tungsten carbide, nylon, UHMWPE, leather, PTFE, PEEK	Stainless steel, CS, chrome, zinc, nickel, Buna-N, tungsten carbide, nylon, UHMWPE, leather, PTFE, PEEK	Stainless steel, CS, chrome, zinc, nickel, tungsten carbide, ductile iron, acetal	Stainless steel, CS, chrome, zinc, nickel, tungsten carbide, ductile iron, acetal
Sound Pressure Level	77 dB(A)	80 dB(A)	77 dB(A)	80 dB(A)
Sound Power Level	87 dB(A)	90 dB(A)	87 dB(A)	90 dB(A)
Approximate Weight	113 lb (51.3 kg)	132 lb (59.9 kg)	92 lb (41.7 kg)	102 lb (46.3 kg)
Instruction Manuals	System – 312862 Pump – 311833 Pump Lower – 311717 Motor – 311238	System – 312862 Pump – 311833 Pump Lower – 311717 Motor – 311238	System – 312862 Pump – 311826 Pump Lower – 311825 Motor – 311238	System – 312862 Pump – 311826 Pump Lower – 311825 Motor – 311238



Ordering Information

Oil Pump Packages with DataTrak

Package Number with DataTrak	247890	247894	247891	247895
Ratio	6:1	10:1	12:1	23:1
Mounting	255143 (Wall)	255143 (Wall)	255143 (Wall)	255143 (Wall)
Pump with DataTrak and Thermal Relief Kit	24D592	24D595	24D593	–
Output per Cycle	1,000 cc	1,000 cc	580 cc	580 cc
Output at 60 CPM	17.4 gpm (65.9 lpm)	17.4 gpm (65.9 lpm)	9.2 gpm (34.8 lpm)	9.2 gpm (34.8 lpm)
Motor Size	NXT 3400	NXT 6500	NXT 3400	NXT 6500
Maximum Fluid Pressure	620 psi (42.7 bar)	1,180 psi (81.3 bar)	1,190 psi (82.1 bar)	1,725 psi (118.9 bar)
Maximum Air Input Pressure	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)	75 psi (5.2 bar)
System Manual	312862	312862	312862	312862
Pump Manual	311833	311833	311826	311826
Pump Lower Manual	311717	311717	311825	311825
Air Motor Manual	311238	311238	311238	311238
Pump Inlet Size	2 in NPT	2 in NPT	2 in NPT	2 in NPT
Pump Outlet Size	1-1/2 in NPT	1-1/2 in NPT	1-1/2 in NPT	1-1/2 in NPT
4 ft x 3/4 in Air Hose	110048	110048	110048	110048
6 ft x 1 in Fluid Hose	115042	115042	115042	115042
Instruction Manual	312862	312862	312862	312862

Oil Pump Packages without DataTrak

Package Number without DataTrak	24D604	24D608	24D605
Ratio	6:1	10:1	12:1
Mounting	255143 (Wall)	255143 (Wall)	255143 (Wall)
Pump without DataTrak and Thermal Relief Kit	24D598	24D601	24D599
Output per Cycle	1,000 cc	1,000 cc	580 cc
Output at 60 CPM	17.4 gpm (65.9 lpm)	17.4 gpm (65.9 lpm)	9.2 gpm (34.8 lpm)
Motor Size	NXT 3400	NXT 6500	NXT 3400
Maximum Fluid Pressure	620 psi (42.7 bar)	1,180 psi (81.3 bar)	1,190 psi (82.1 bar)
Maximum Air Input Pressure	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
System Manual	312862	312862	312862
Pump Manual	311833	311833	311826
Pump Lower Manual	311717	311717	311825
Air Motor Manual	311238	311238	311238
Pump Inlet Size	2 in NPT	2 in NPT	2 in NPT
Pump Outlet Size	1-1/2 in NPT	1-1/2 in NPT	1-1/2 in NPT
4 ft x 3/4 in Air Hose	110048	110048	110048
6 ft x 1 in Fluid Hose	115042	115042	115042
Instruction Manual	312862	312862	312862





## Field-Proven, Energy-Efficient

Hydraulic Dyna-Star pumps provide reliable, quiet, ice-free performance at maximum pressure and low-flow rates and are up to three times more energy efficient than comparable compressed-air systems.

### Built-In Reliability

Self-lubricating vertical design for long life and reliable operation in high vibration environments.

### Quiet Hydraulic Motor

No need for add-on mufflers.

### High-Efficiency Motor

Uses less hydraulic oil.

### Typical Applications

- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

## Technical Specifications

Fluid Pressure Ratio	1:1	1:1	1/4:1	1:1 Stainless Steel
Pump Number	224741	224742	236753	237653
Applications	Oil dispensing	Oil dispensing	Bulk oil transfer	Antifreeze dispensing
Drum Size	Universal	55 gal (200 l) Bung- or cover-mounted	Universal	Universal
Maximum Input Pressure	1,500 psi (102 bar)	1,500 psi (102 bar)	1,500 psi (102 bar)	1,000 psi (70 bar)
Maximum Fluid Input Volume	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)
Maximum Output Flow Rate	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)	10 gpm (37.9 lpm)	3 gpm (11.4 lpm)
Maximum Recommended CPM	60	60	60	60
Maximum Fluid Output Pressure	1,500 psi (102 bar)	1,500 psi (102 bar)	375 psi (25.1 bar)	1,500 psi (102 bar)
Hydraulic Supply Inlet	3/8 in NPT	3/8 in NPT	3/8 in NPT	3/8 in NPT
Hydraulic Return Outlet	3/4 in NPT	3/4 in NPT	3/4 in NPT	3/4 in NPT
Fluid Outlet	1/2 in NPT	1/2 in NPT	1/2 in NPT	1/2 in NPT
Fluid Inlet	1-1/2 in NPT	1-1/2 in NPT	1-1/2 in NPT	3/4 in NPT
Maximum Incoming Fluid Temp.	130°F (54°C)	130°F (54°C)	130°F (54°C)	130°F (54°C)
Wetted Parts	Steel, copper, leather	Steel, copper, leather	Aluminum, steel, nitrile, polyurethane	Steel, copper, leather
Sound Pressure Level	77 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)
Approximate Weight	24 lb (10.9 kg)	24 lb (10.9 kg)	48 lb (21.8 kg)	24 lb (10.9 kg)
Instruction Manual	308155	308155	308390	308155






## Ordering Information

### Dyna-Star Hydraulic Pumps

Part Number	Description
224741	1:1 Universal oil pump
224742	1:1 Oil pump for 55 gal (400 lb) drum size, bung- or cover- mounted
236753	1/4:1 Universal oil pump
237653	1:1 Universal stainless steel oil pump



### Accessories

#### Drum Covers


	Part Number	Description
	200326	For 55 gal (200 l) drums
	204574	For 16 gal (60 l) drums
	222058	For 5 gal (20 l) pails
	160754	For 5 gal (20 l), 16 gal (60 l) and 55 gal (200 l) bung-mounted pumps

#### Hydraulic Fluid Controls

Required for each pump.

	Part Number	Description
	236864	Dyna-Star fluid controls [1,500 psi (102 bar); 3 gpm (11.4 lpm)]. Includes manifold with pressure-reducing valve, flow-control valve, pressure gauge, shut-off ball valves, and 3 ft (0.9 m) supply and return hoses. Instruction manual 308395.
	237904	1:1 Dyna-Star thermal relief valve, 1,600 psi (110 bar)

#### Wall-Mounting Brackets

	Part Number	Description
	203987	For stubby/universal 1:1 Dyna-Star pump
	236778	For stubby/universal 1/4:1 Dyna-Star pump

## Field Proven, Energy Efficient

Hydraulic Power-Star pumps provide reliable, quiet, ice-free performance at maximum pressure and low flow rates and are up to three times more energy efficient than comparable compressed-air systems.



### Built-In Reliability

Self-lubricating vertical design for long life and reliable operation in high vibration environments.

### Quiet Hydraulic Motor

No need for add-on mufflers.

### High-Efficiency Motor

Uses less hydraulic oil.

### Typical Applications

- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)

### Technical Specifications

Fluid Pressure Ratio	1:1
Pump Number	236754
Applications	Bulk oil transfer
Drum Size	Universal
Maximum Input Pressure	1,500 psi (102 bar)
Maximum Fluid Input Volume	12 gpm (45.4 lpm)
Maximum Output Flow Rate	12 gpm (45.4 lpm)
Maximum Recommended CPM	60
Maximum Fluid Output Pressure	1,500 psi (102 bar)
Hydraulic Supply Inlet	3/4 in NPT
Hydraulic Return Outlet	1-1/4 in NPT
Fluid Outlet	1/2 in NPT
Fluid Inlet	1-1/2 in NPT
Maximum Incoming Fluid Temp.	130°F (54°C)
Wetted Parts	Iron, steel, stainless steel, nitrile, polyurethane
Sound Pressure Level	78 dB(A)
Approximate Weight	100 lb (45.4 kg)
Instruction Manual	308391




## Ordering Information

### Power-Star Hydraulic Pumps

Part Number	Description
236754	1:1 Universal oil pump


### Accessories

#### Drum Covers


	Part Number	Description
	200326	For 55 gal (200 l) drums
	204574	For 16 gal (60 l) drums
	222058	For 5 gal (20 l) pails
	160754	For 5 gal (20 l), 16 gal (60 l) and 55 gal (200 l) bung-mounted pumps

#### Hydraulic Fluid Controls

Required for each pump.

	Part Number	Description
	236865	Power-Star fluid controls [1,500 psi (102 bar); 12 gpm (45.4 lpm)]. Includes manifold with pressure-reducing valve, flow-control valve, pressure gauge, shut-off ball valves, and 3 ft (0.9 m) supply and return hoses. Instruction manual 308395.

#### Wall-Mounting Bracket

	Part Number	Description
	236778	For stubby/universal 1/4:1 Power-Star pump

## Ordering Information

### 16 Gallon (60 l) Metered and Non-Metered Dispensing Packages

Designed for manual dispensing of fluid oil from bulk containers to point of application.



Package Number	225880	225376	225384	225380	225378*
Fluids Handled	ATF	Gear lube	Gear lube	Gear lube	Gear lube
Package Type	Portable	Portable	Portable	Stationary	Portable
Pump Part Number	204867	204867	204867	204867	204867
Meter Dispense Kit	239707	239705	239705	-	-
Dispense Kit	-	-	-	214658	214658
Fluid Hose	-	-	6 ft x 1/2 in	6 ft x 1/2 in	6 ft x 1/2 in
Drum Cover	204574	204574	204574	204574	204574
Portable Base	203622	203622	-	-	203622
Cart	-	-	203650	-	-
Instruction Manual	306436	306436	306436	306436	306436

\*Hydraulic; can be used for gear oil dispensing.

## Ordering Information

### Pail-Dispensing Package for 5 gal (20 l) Pails

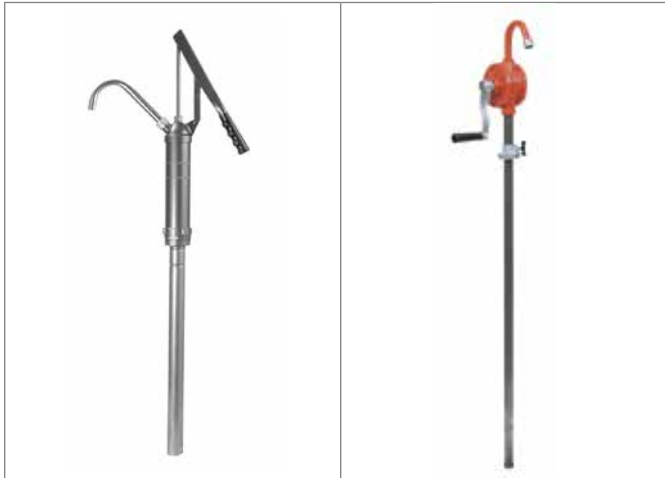
Mounts on top of standard 5 gal (20 l) pail (pail not included). Dispenses 1.6 oz to 1.9 oz. (47.3 ml to 56.2 ml) per stroke.



Package Number	226289
Fluids Handled	Gear lube
Fluid Hose	4 ft (1.2 m)
Instruction Manual	306875

### Pumping Bulk Lubricants from 16 gal (60 l) or 55 gal (200 l) Drums\*

All pumps come with suction tube and bung adapter.



Package Number	114829	226290
Type of Pump	Lever <sup>(1)</sup>	Rotary <sup>(2)</sup>
Fluids Handled	Petroleum-based products, antifreeze	Petroleum-based products
Delivery Rate	0.1 gal (0.4 l) per downstroke	1 gal (3.7 l) per 18 cycles
Fluid Hose	–	–
Instruction Manual	–	306876

\*Drums not included.

1 Telescopic suction tube mounts 2 in NPT bung opening of 16 gal (60 l) or 55 gal (200 l) drum. Package includes bung adapter and spout outlet

2 Package has adjustable 2 in NPT bung mounting to allow use with either 16 gal (60 l) or 55 gal (200 l) drum. Package includes bung adapter and spout outlet



## AMERICAS

### MINNESOTA

Worldwide Headquarters  
Graco Inc.  
88-11th Avenue N.E.  
Minneapolis, MN 55413

### MAILING ADDRESS

P.O. Box 1441  
Minneapolis, MN 55440-1441  
Tel: 800-275-5574 Fax: 612-623-6777

## EUROPE

### BELGIUM

Graco BVBA  
Industrieterrein-Oude Bunders  
Slakweidestraat 31  
B-3630 Maasmechelen,  
Belgium  
Tel: 32 89 770 700 Fax: 32 89 770 777

## ASIA PACIFIC

### AUSTRALIA

Graco Australia Pty Ltd.  
Suite 17, 2 Enterprise Drive  
Bundoora, Victoria 3083  
Australia  
Tel: 61 3 9468 8500 Fax: 61 3 9468 8599

### CHINA

Graco Fluid Equipment (Shanghai) Co., Ltd.  
Building 7, No.1-2  
Wenshui Road 299,  
Jing'an District  
Shanghai 200436  
P.R.China  
Tel: 86 21 649 50088 Fax: 86 21 649 50077

### INDIA

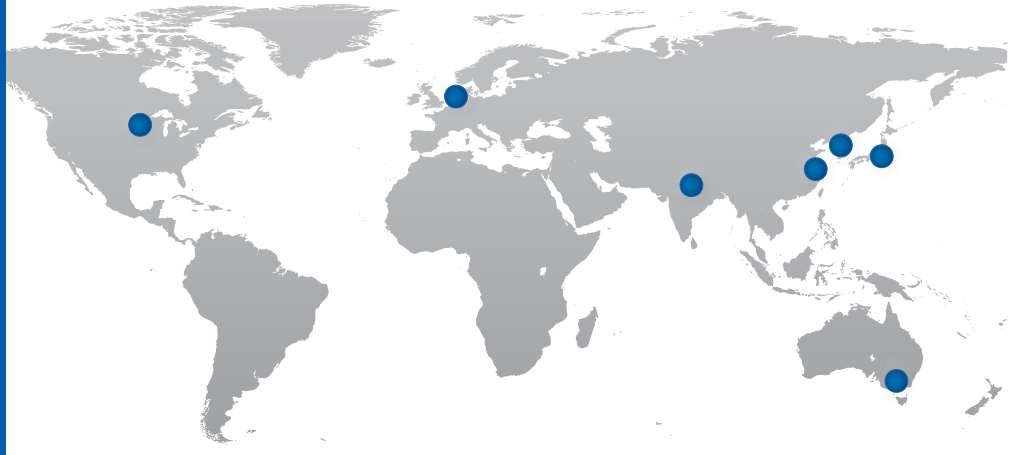
Graco Hong Kong Ltd.  
India Liaison Office  
Room 443, Level 4  
Augusta Point, Golf Course Road  
Gurgaon, Haryana, India 122001  
Tel: 91 124 435 4208 Fax: 91 124 435 4001

### JAPAN

Graco K.K.  
1-27-12 Hayabuchi  
Tsuzuki-ku  
Yokohama City, Japan 2240025  
Tel: 81 45 593 7300 Fax: 81 45 593 7301

### KOREA

Graco Korea Inc.  
Shinhan Bank Building  
4th Floor #1599  
Gwanyang-Dong, Dongan-Ku,  
Anyang-si, Korea 431-060  
Tel: 82 31 476 9400 Fax: 82 31 476 9801



# Graco's got you covered

## Facilities Worldwide for Global Support



### Quality First

At Graco, we pride ourselves on providing best-in-class products. Engineered solutions are manufactured in our own facilities, with the highest standards in the industry. We provide you with world-class customer support and expertise to help solve your lubrication challenges.



### Global Reach

Graco has facilities across the globe to provide you with the products and service *you* need, where *you* live. Plus, Graco has dedicated field experts in all areas of the world to support the products we sell.



### Product Capabilities

Graco has a broad range of products to provide solutions that meet your needs. Our products are engineered and tested to perform in the harshest environments so you can be certain your equipment is protected and working at peak performance.

©2023 Graco Inc. 303245 Rev. AK B/23 All other brand names or marks are used for identification purposes and are trademarks of their respective owners. All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice. For more information on Graco's intellectual property, see [www.graco.com/patent](http://www.graco.com/patent) or [www.graco.com/trademarks](http://www.graco.com/trademarks).

Contact us today!

Call **800-533-9655** to speak with a Graco representative,  
or visit **[www.graco.com](http://www.graco.com)** for more information.

