

# **PMG Buyer's Guide**

Petroleum Handling Equipment for Industrial and Commercial Applications



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# **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.



### 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



### **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



### Graco Gear

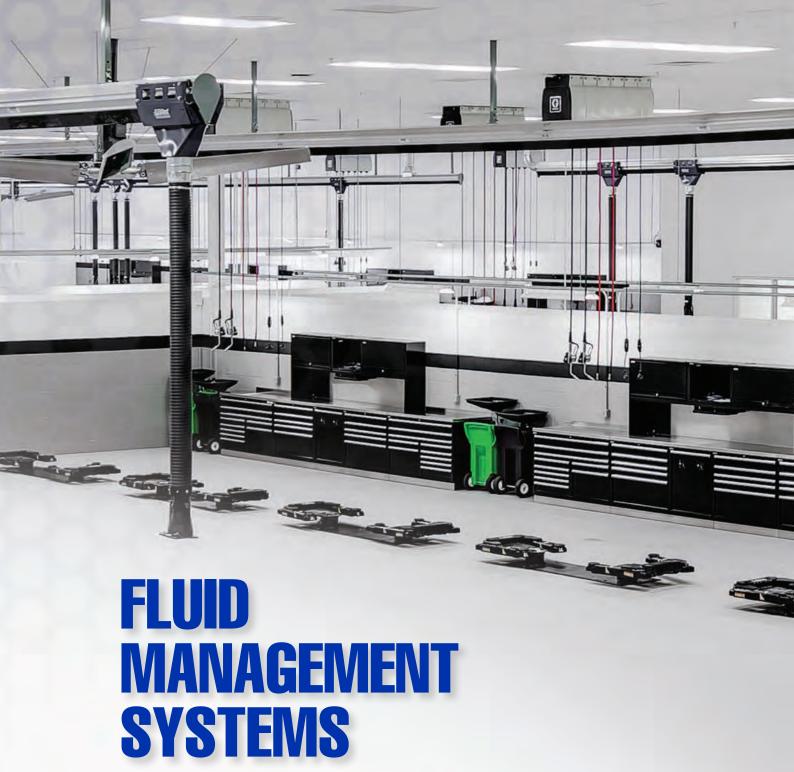
Graco Gear is your one-stop shop for branded merchandise and other tools that will help you build customer relationships.

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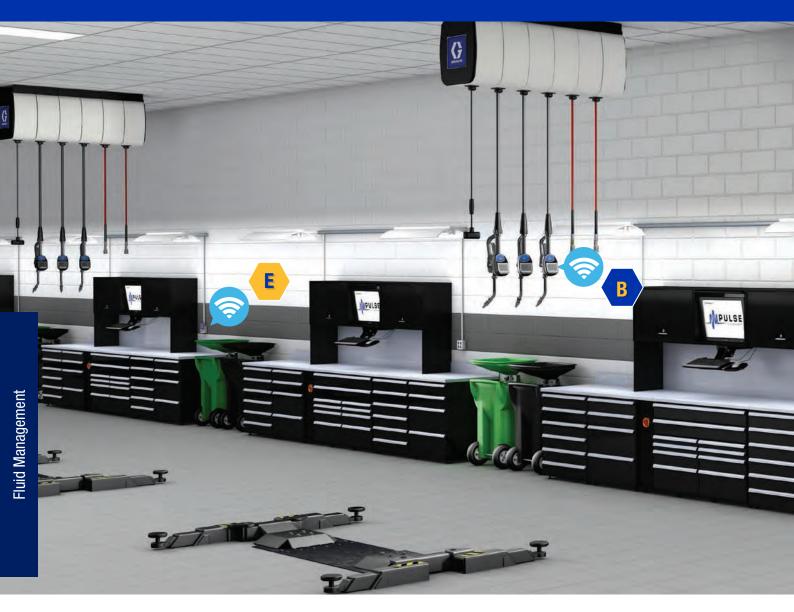
Call **800-533-9655** to speak with a Graco representative, or visit **www.graco.com** for more information.



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Pulse<sup>™</sup> Fluid Management simplifies how forward-thinking shops track and manage bulk fluids in real time - adding more transparency and accountability to drive productivity and profitability.



### **Benefits of Pulse Fluid Management**



Transparency. Monitor every drop, every time – automatically – and minimize shrinkage, rounding and discrepancies.



Scalability. Add Pulse into almost any environment quickly, and even retrofit applications or multiple buildings within the same facility.



Accountability. Track issues to the source via advanced technology, including automated alerts and customizable reports.



 $\label{lem:accurate billing.} \textbf{Accurate billing.} \ \textbf{Automatically assign}$ every ounce of fluid directly to a work order to simplify billing and maximize profit margins.



Integration. Capture data, integrate it with popular DMSs and share it with other stakeholders quickly.



Simplicity. Avoid surprises, interruptions and delays. Fluids are tracked and recorded instantly and automatically.

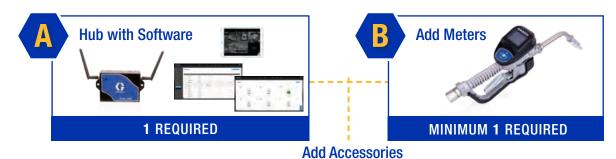


Portability. Pair with mobile dispense units and drums easily to reduce extra steps and hassles for technicians.



Inventory management. Monitor fluid inventory and schedule refills to minimize delays and excessive costs.









### Pulse Hub



There's no software to install. Simply connect the Pulse Hub to a power source and access your local network to get started. The self-contained device includes everything necessary for users to access monitoring and reporting tools instantly from any network-connected PC, tablet or smartphone.



ec	echnical Specifications				
Weight		1.0 lb (454 gm)			
Power Supply					
Input Power To Hub		100-240 VAC line voltage (0.05 A)			
		5 VDC (0.5 amps)			
Warranty		Two years electronics			



Part Number Description		Description
	24Z978	Hub for non-European installation with global power adapter
	25D454	Hub for European (EU) installation with global power adapter



### **Pulse Software**

Pulse Fluid Management software is focused on simple intuitive design with powerful information at your fingertips. Get a quick consolidated view of all dispenses for the entire shop via specifically designed web page and easy-to-use software. Track tank levels at a glance. Generate customizable reports and automated e-mail alerts to share critical information with other key decision-makers. For further efficiency and automation, Pulse software can be integrated with your DMS through Pulse standard integrations or our generic third-party interface.

#### Features and Benefits

- No software to install Pulse Hub generates a local web page
- Responsive web design Use any-size screen, from a PC to a phone
- Consolidated dispense queue Find everything you need in one convenient table
- Advanced reporting Create and schedule automated reports to track history and fluid usage
- Informative and preventive alerts The software offers over two dozen alert activities
- Automatic software updates Software notifies you when updates are ready to install







### **Dealer Management System (DMS) Integrations**

Gain even more efficiencies by interfacing Pulse with your existing DMS. Provides billing and workflow improvements by automatically sharing fluid dispense records.

#### Features and Benefits

- Ease of use Interface is invisible to the technician
- Security Validate work orders
- · Automation Ensures that all dispenses are billed
- Custom Integrate to DMS/business system
- Detailed reporting Each job performed is recorded with information returned to DMS

#### **How It Works**

The interface to business systems or DMS provides two important basic functions:







Dealertrack dr





















### **Pulse Dispense Meter**

The dispense meter is durable and easy to use, giving technicians everything they need at their fingertips. PINs and other data can be entered in moments via a larger, more intuitive display. NFC tags can be used for immediate PIN entry and faster access to work orders.

GRACO





High-contrast display for lowand bright-light conditions.

### Faster PIN Entry

Built-in NFC reader and simple, efficient controls.

#### Wireless Communication

Communicates dispense information with Hub.

### Ergonomic Design

Lower button placement.



Choose from rigid, flexible or gear lube extensions with automatic flush-mount nozzle design.

### Long Battery Life

Uses four off-the-shelf AA batteries easy to replace.

### Long-Life Valve Design

Cartridge design for long life and easier repair.

### **Protective Trigger Guard**

Prevents accidental dispenses.

hnical Specifications		
Flow Range*	0.25 to 18 gpm (0.9 to 68 lpm)	
Maximum Working Pressure	1,500 psi (103.4 bar)	
Units of Measure (factory set to quarts)	Pints, quarts, gallons, liters	
Weight	5.3 lbs (2.4 kg)	
Inlet	1/2 in NPT or 3/4 in NPT	
Outlet	3/4 in straight thread O-ring boss	
Dimensions (without extension)		
Length	13 in (33 cm)	
Width	3.75 in (9.5 cm)	
Height	5.75 in (14.6 cm)	
Maximum Recorded Dispense	999.99 units	
Operating Temperature Range	4°F to 158°F (-16°C to 70°C)	
Storage Temperature Range	-40°F to 158°F (-40°C to 70°C)	
Battery**	4 AA alkaline or lithium batteries	
RF Frequency Band	2,400 to 2,483.5 MHz	
Maximum RF Transmit Power	8 dBm	
Wetted Parts	Aluminium, stainless steel, PBT, nitrile rubber, zinc-plated carbon steel, nickel-plated carbon steel	
Fluid Compatibility	Anti-freeze, gear oil, crankcase oil, ATF, windshield wash (up to 50% alcohol-based solutions)	
Meter Accuracy <sup>†</sup>	+/- 0.5 percent	
Warranty	Five year structural, 3 years electronics, 1 year wear components	

<sup>\*</sup>Tested in 10W motor oil. Flow rates vary with fluid pressure, temperature and viscosity.

\*\*Battery required to meet life expectancy: Energizer® Alkaline E91.

<sup>†</sup>At 2.5 gpm (9.5 lpm), at 70°F (21°C), with 10W oil and 1 gallon dispensed. May require calibration; out-of-box accuracy is +/- 1.25 percent.













### **Ordering Information**

8 gpm (30 lpm) Meters				Part Number		
Fluid	Extension	Nozzle	Size (in)	NPT	BSPP	BSPT
Oil -	Flexible	Automatic Quick-Close	Quick-Close  Manual 1/2	25M319	25M334	25M349
OII	Rigid			25M317	25M332	25M347
Anti-Freeze -	Flexible	Manual		25M320	25M335	25M350
AIIII-FIEEZE	Rigid	Anti-Freeze		25M318	25M333	25M348
Gear Lube	Gear Lube	Manual		25M326	25M341	25M356
Windshield Wash	Rigid	None		25M328	25M343	25M358

### 18 gpm (68 lpm) Meters

	Flexible	Manual High-Flow	1/2	25M324	25M339	25M354
Oil / Anti-Freeze	Rigid			25M323	25M338	25M353
Oii / Aiiti-Freeze	Flexible	Manual High-Flow	3/4	25M330	25M345	25M360
	Rigid			25M329	25M344	25M359

### **NFC Tags**

Part Number	Description
131462	NFC tags for user identification with meter. 25-pack, blue.

### **Pulse Meter Filter Kits**

Part Number Description		Description
	25D906	Filter kit includes filters/strainers (15M308) and O-rings (155332)

### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
() GRACO	17S659	Red
G GRACO	17S660	Blue
O GRACO	17S661	Green
O GRACO	17S662	Yellow
O GRACO	17S663	White

### **Swivel Covers / Impact Protection**

	Part Number	Description		
	15T366	Black swivel cover (standard colour with meter)		
	15T367	Red swivel cover		
	15T368	Blue swivel cover		
	15T369	Green swivel cover		
	15T370	Yellow swivel cover		
8	131226	Pulse / SD meter boot		















### Pulse Tank Level Monitor (TLM)

Measure your largest tanks accurately with minimal effort. The monitor's ultrasonic sensor records the tank level and can be configured to e-mail a daily report to key stakeholders detailing tank volumes, low- or high-level warnings and more.



### Simple Wireless Setup

Automatic network identification.

### Long Battery Life

Allows for remote installations. Uses four off-the-shelf AA batteries - easy to replace.

### Built-In Display

Real-time level visible from built-in display.

### Supports Multiple Tank Shapes

Ability to input strapping table for any tank shape.

### Tough Exterior

Sealed enclosure to accommodate outdoor usage.

### Compact Design

Easily fits into more spaces.

### **On-Demand Readings**

Ability to take reading at any time.



### **Ordering Information**

Part Number	Description
25M449	Tank Level Monitor (TLM)

#### **Technical Specifications** Ultrasonic Tank Depth Measurement range 5 in to 30 ft (12.7 cm to 9.14 m) (Not for use in pressurized tanks) Fluid Level Measurement Accuracy +/- 1.8 in (4.57 cm) 1.5 in and 2 in threaded NPT connector (Adapter for BSPP and BSPT thread options available) Mounting Weight (with batteries installed) 1.25 lb (567 g) RF Frequency Band 2,400 to 2,483.5 MHz Operating Temperature Range -22°F to 185°F (-30°C to 85°C) (Display will not function below 32°F [0°C]) Storage Temperature Range -40°F to 185°F (-40°C to 85°C) **Batteries** Four AA alkaline Enclosure IPX5 **RF** Communication 2,400 to 2,483.5 MHz **Vertical Tanks** Maximum Volume 999,999 gal (999,999 l) Maximum Height 30 ft (9.14 m) Cylindrical Tanks Maximum Volume 999,999 gal (999,999 l) Maximum Height 30 ft (9.14 m) Maximum Length 30 ft (9.14 m) Maximum Width 30 ft (9.14 m) Fluid Compatibility Automatic transmission fluid, anti-freeze, window wash, coolant, waste water Warranty Two years electronics















Pulse Pump Air Control (PAC)
Prevent unauthorized access to fluid inventory. Pump air supply is shut off automatically after the dispense, preventing spills and expensive cleanup if a broken line occurs. Pump operation is enabled only when a dispense has been activated from the meter.



### Easy Installation

Built-in mounting bracket.

### Simple Wireless Setup

Automatic network identification.

### High-Volume Air Valve

Supports a variety of pumps.

### Multiple Thread Options

NPT and BSPP air valve options.



### Compact Design

Allows for mounting directly on pump or in tight spaces.

### Rugged Exterior

Sealed enclosure to protect internal components.

### Multiple Wiring Options

NEMA 5-15 plug or flying leads.



### **Ordering Information**

Part Number	Description
24Z728	NPT with NEMA 5-15 plug (North America)
24Z676	NPT with flying leads
24Z677	BSPP with flying leads

### **Technical Specifications**

Minimum Operating Pressure	36 psi (0.25 MPa, 2.5 bar)
Maximum Operating Pressure	145 psi (1.0 MPa, 10 bar)
Maximum Air Flow	93 SCFM (2.6 m³/min)
Power Supply	100–240 VAC line voltage, 24 VDC solenoid
Power Cord	
Model 24Z676, 24Z677	6 ft SJ00W, 3-wire, 18-gauge cable with flying leads
Model 24Z728	Power cord with integrated NEMA 5-15 plug
Current	25 to 60 mA
RF Frequency Band	2,400-2,483.5 MHz
Connection Ports Size (inlet, ou	tlet, exhaust)
Model 24Z676, 24Z728	3/8 in NPT
Model 24Z677	3/8 BSPP
Operating Temperature Range	14°F to 122°F (-10°C to 50°C)
Storage Temperature Range	-40°F to 185°F (-40°C to 85°C)
Weight	2.44 lbs (1.11 kg)
Dimensions	
Length	9.5 in (241.3 mm)
Width	2.25 in (57.2 mm)
Height	3.75 in (95.3 mm)
Warranty	Two years electronics







#### **Pulse Extender**

The Pulse wireless network can easily be expanded to accommodate large shops or a large number of devices. Simply plug the Extender into wall power to extend the network.

### Expands Pulse Network

Supports 20 devices and extends the network range.

#### Simple Wireless Setup

Automatic network identification.

### Integrated Electrical Plug

Simply plugs into wall.

### Compact Design

Place conveniently in standard electrical outlet locations.



Гес	hnical Specifications	
	Operating Temperature	32°F to 158°F (0°C to 70°C)
	Power Input	Universal AC input (85 VAC to 265 VAC)
	Length	2.87 in (7.3 cm)
	Width	1.97 in (5.0 cm)
	Height	1.37 in (3.5 cm)
	Weight	2.50 oz (70.9 g)
	Warranty	Two years electronics

### **Ordering Information**

Part Number	Description
17F885	Extender for US (Type A)
17F886	Extender for Europe (EU) (Type C)
17F887	Extender for United Kingdom (UK) (Type G)
17F888	Extender for Australia (Type I)

#### **Pulse Remote Extender**

The Pulse wireless network can easily be expanded to accommodate devices in secondary on-site buildings. Connect the Remote Extender to wall power and local network via Ethernet or Wi-Fi to extend the network.

Pulse"

Remote

Extender

יוטום



### Expands Pulse Network

Supports 20 devices and extends the network range.

### Simple Wireless Setup

Automatic network identification.

### Multiple Network **Connection Options**

Utilizes local network Ethernet or Wi-Fi to communicate back to Hub.

### Compact Design

Easy to place even in tight spaces.

### **Electrical Power**

Includes plug-in power adapter.



#### Connections Ethernet or Wi-Fi Ethernet 10/100Base-T Wi-Fi 802.11 b/g/n Operating Temperature 32°F to 104°F (0°C to 40°C) 3 in (7.62 cm) Length Width 3 in (7.62 cm) Height 1 in (2.54 cm) Warranty Two years electronics

### **Ordering Information**

Part Number	Description
17F878	Remote Extender for non-European installation with global power adapter
17F879	Remote Extender for European (EU) installation with global power adapter

















### **Ordering Information**

### **Pulse Roll-Around Package**

Pulse Fluid Management wireless technology allows you to control your mobile drums and dispenses by providing security for expensive drums of synthetic and semi-synthetic fluids. Each package contains everything you need to manage your drums in existing Pulse installations. Drum not included.

Package	Extensions	Package Includes					
Number	Extensions	Meter	Pump	Downtube	Drum Cart	Air Regulator	Hose
25D948	8 GPM, Rigid	25M317					
25D952	8 GPM, Flexible	25M319	24G576	16F878	24F915	24H420	24H865
25D953	8 GPM, Gear Lube	25M326					



### **Ordering Information**

### Oil Bar

Part Number	Description
25D121	Oil Bar Console
25D130	Oil Bar Dispense Kit
25N415	Oil Bar Pulse Dispense Meter



#### Oil Bar

Components ordered separately. For complete unit, order console (25D121), dispense kit (25D130) (one per meter) and Pulse meters (25N415) as needed.

#### **Accessories**

Nam	Part Number	Description
	249440	Console bracket

**Pulse<sup>™</sup> Fluid Management** 

### **Pulse Demo Kit**

Pulse demo case with everything needed to show customers how Pulse will save them time, gain them more billable hours and maximize their fixed operation's profitability.

Part Number	Description
25D625	Includes Pulse Hub (24Z978), Pulse Dispense Meter, Pulse TLM (25M449), Pulse PAC (24Z728), Pulse NFC Tag, case and protective foam



### **Wired Fluid Control**











### Ordering Information

### **Pulse Output Meters**

Part Number	Description
236763	Electronic pulse meter (quarts)
236764	Electronic pulse meter (liters)
215474	Mechanical pulse meter (quarts)
244342	Meter pulse converter, used when upgrading old-style modular fluid commander to electronic allows use of 215474/215475 with the EFC.

### **Air Solenoid Valves**

Part Number	Description
215407	Air solenoid valve, 150 psi (10 bar) (1/2 npsm (f) conduit ports for wiring; 1/4 in NPT(F) air ports, adapted to 3/8 (f) IN, 3/8 (m) OUT) operates on 24V DC and 110 VAC. Automatically shuts-off air inlet to pump when pre-set dispensed amount is reached. Materials of construction: brass, SST, Buna.
105474	Air solenoid valve (bare) 150 psi (10 bar), same as 215407 but without wire connectors or adapters. 1/2 in npsm (f) conduit ports for wiring; 1/4 in NPT(F) air ports.150 psi (10.3 bar) max. working pressure.

### **Fluid Solenoid Valves**

	Part Number	Description
	215487	Fluid solenoid valve, 1/2 in NPT(F) 3,000 psi (207 bar) operates on 24V DC. Automatically shuts-off fluid when pre-set dispensed amount is reached. Includes tube, valve, pin connector, wire plug connector and adapter.
514150 Fluid solenoid valve for anti-freeze, 150 psi max. (10 bar), 1/2 in NPT(F), same as features as 215487.		Fluid solenoid valve for anti-freeze, 150 psi max. (10 bar), 1/2 in NPT(F), same as features as 215487.
	110025	Bare fluid solenoid valve, 1/2 in NPT(F) 3,000 psi, same features as 215487 above, but without wiring connectors or adapters.

### **Ready-Light Kits**

Part Number	Description
218588	Ready-light kit, signals operator when dispensing can begin. Includes "ready to dispense" indicator light (239019), strainer (240417), fluid solenoid valve (215487) and hardware.
238996	Ready-light with junction box (no solenoid or strainer)
239019	Ready-to-dispense indicator light only
113859	Lamp for indicator only

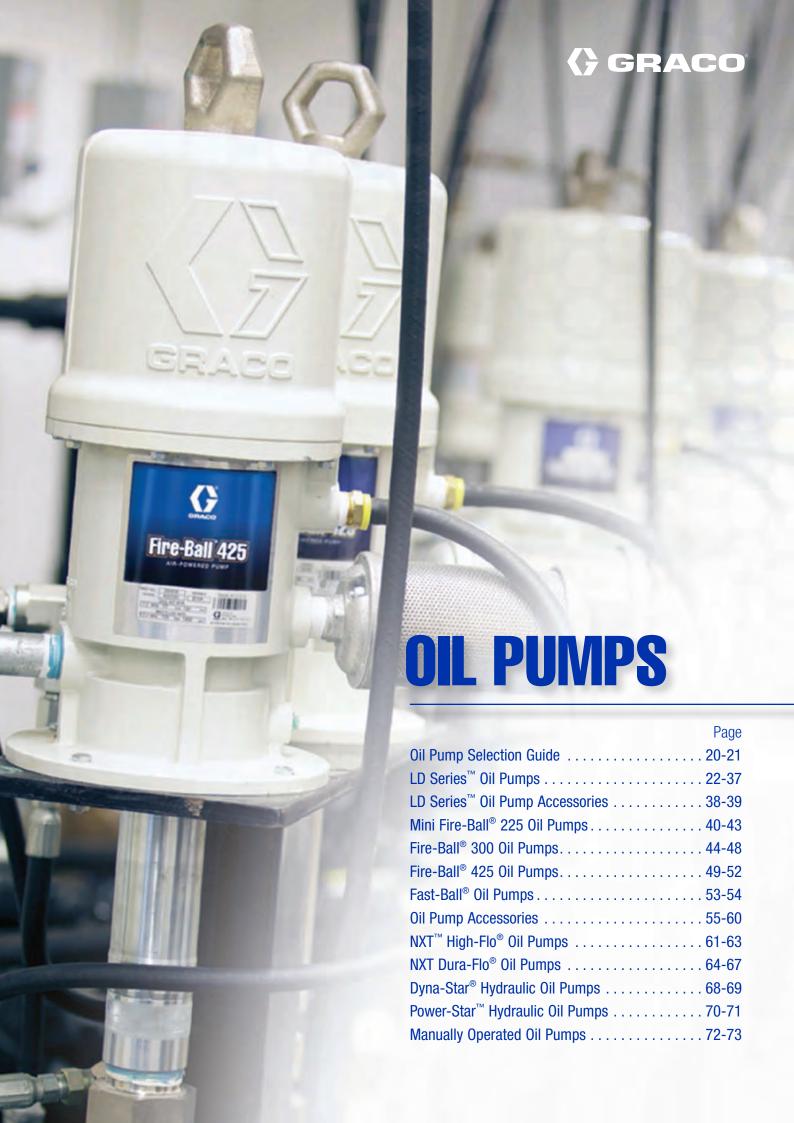
### **Installation Components**

Part Number	Description
111620	Check valve
223179	Fluid filter kit (for bare electronic meter)
186472	Wall-mounting bracket
108458	Fluid shut-off valve
237893	Thermal relief kit for 900 psi (62 bar), relieves excess heat-induced pressure from dispense system. Male and female ends allow for simple installation.

### Connecting Cables for Connecting Solenoids and Consoles, 90-volt, 2-wire, 18-gauge

Part Number	Description
215481	100 ft (30.5 m) pre-connected at both ends





# **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
Fast Ball, 1:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	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)	54
LD, 3:1	Automotive dealerships     Fast lube centers     Lube trucks     Lubricant transfer     Service shops	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)	22
LD, 5:1	Automotive dealerships     Fast lube centers     Lube trucks     Lubricant transfer     Service shops	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)	22
Mini Fireball 225, 3:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	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)	40
Fireball 300, 5:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	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)	44
Fireball 425, 3:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	> 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)	49
Fireball 425, 6:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	> 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)	49
Fireball 425, 10:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	> 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)	49



# **Oil Pump Selection Guide**

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
NXT High Flo, 3.5:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 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)	61
NXT High Flo, 4.5:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 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)	61
NXT High Flo, 6:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 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)	61
NXT Dura-Flo, 6:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 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)	63
NXT Dura-Flo, 10:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 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)	64
NXT Dura-Flo, 12:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 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)	64
NXT Dura-Flo, 23:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 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)	64

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
Dyna-Star 1:1	Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops	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)	68
Dyna-Star 1/4:1	Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops	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)	68
Power-Star 1:1	Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops	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)	70



### **LD Series Oil Pumps**











### **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**

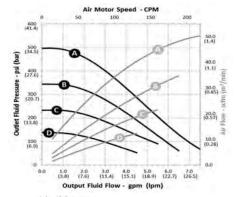
- Automotive dealerships
- · Fast lube centers
- Service shops

### Typical Fluids Handled

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

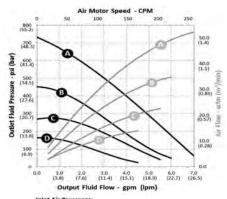
### **Pump Performance**

### **LD Series 3:1 Pumps**



# A = 150 psi (10.3 bar B = 190 psi (6.9 bar) C = 70 psi

### **LD Series 5:1 Pumps**



A = 150 psi (10.3 bar) B = 100 psi (6.9 bar) C = 70 psi (4.8 bar)





# **LD Series Oil Pumps**

hnical 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 m³/min @ 10.6 lpm)	18 scfm @ 2.1 gpm (0.51 m³/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, aluminium, nitrile, polyurethane, nickel plated aluminium	Zinc plated carbon, steel, aluminium, nitrile polyurethane, nickel plated aluminium
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 steel 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 steel 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)		





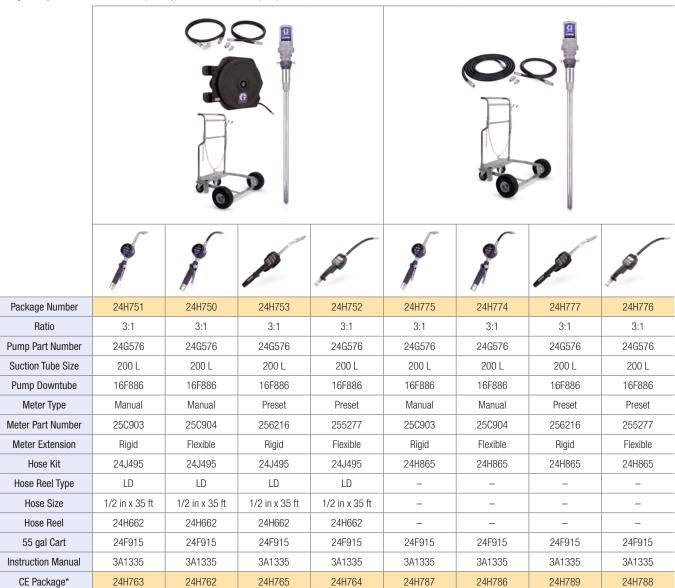




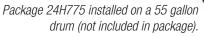
**Ordering Information** 

### **Mobile Oil Packages – Cart**

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.



\*CE packages include 2-way vented valve (BSP: 125041 / NPT: 110223) and air regulator (BSP: 24H419 / NPT: 24H420).













### **Ordering Information**

### Mobile Oil Packages - Dolly

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.













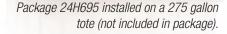
### **Ordering Information**

### **Wall Mount Oil Packages**

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.







### **Stationary Oil Packages**

Package Number

Ratio

Suction Tube Size

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.



<sup>\*</sup>CE packages include 2-way vented valve (BSP: 125041 / NPT: 110223) and air regulator (BSP: 24H419 / NPT: 24H420).









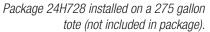
Ordering Information

### **Stationary Oil Packages - Tote**

Standard packages include LD Series hose reel. Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.

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)				
Pump Downtube	16F885	16F885	24H669	24H669	
Mounting Position	Тор	Тор	Drain	Drain	
Reel Type	LD	LD	LD	LD	
Hose Reel Part Number	24H662	24H662	24H662	24H662	
Hose Size	1/2 in x 35 ft				
LD Reel Bracket Kit	24F932	24F932	24F932	24F932	
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	24H495	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	
CE Package*	24H714	24H716	24H738	24H740	

<sup>\*</sup>CE packages include 2-way vented valve (BSP: 125041 / NPT: 110223) and air regulator (BSP: 24H419 / NPT: 24H420).













Ordering Information

### **Deluxe Stationary Oil Packages - Tote**

Deluxe packages include SD Series hose reel. Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.















### **Ordering Information**

### **Tank Mount Oil Packages**

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.













### **Deluxe Tank Mount Oil Packages**

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











#### **Ordering Information**

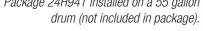
### Mobile Oil Packages - Cart

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.



\*CE packages include 2-way vented valve (BSP: 125041 / NPT: 110223) and air regulator (BSP: 24H419 / NPT: 24H420).















### Mobile Oil Packages - Dolly

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.













### Ordering Information

### **Wall Mount Oil Packages**

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.



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	
CE Package*	24H839	24H845	

<sup>\*</sup>CE packages include 2-way vented valve (BSP: 125041 / NPT: 110223) and air regulator (BSP: 24H419 / NPT: 24H420).



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

### **Stationary Oil Packages**

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.

			A STATE OF THE PARTY OF THE PAR	A STATE OF THE PARTY OF THE PAR
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	250903	250904	256216	255277
Meter Extension	Rigid	Flexible	Rigid	Flexible
Hose Kit	24H859	24H859	24H859	24H859
Instruction Manual	3A1335	3A1335	3A1335	3A1335
CE Package*	24H977	24H976	24H979	24H978

<sup>\*</sup>CE packages include 2-way vented valve (BSP: 125041 / NPT: 110223) and air regulator (BSP: 24H419 / NPT: 24H420).





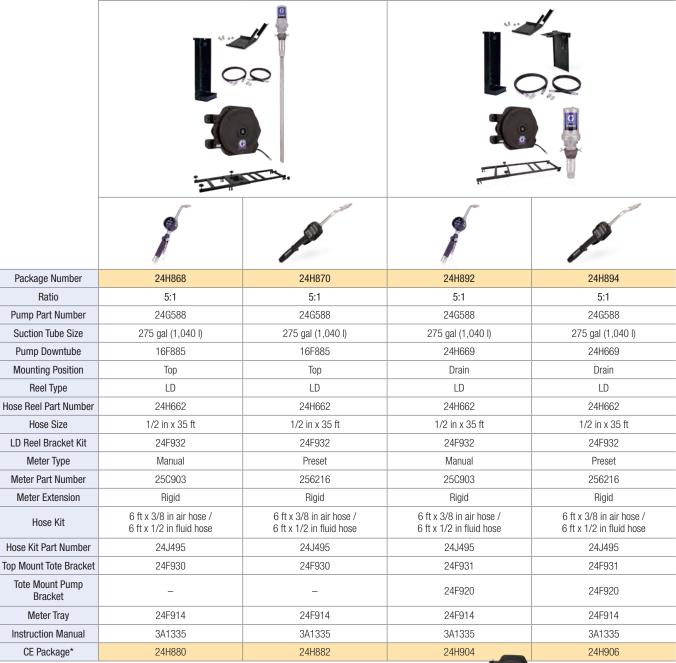




#### **Ordering Information**

### Stationary Oil Packages – Tote

Standard packages include LD Series hose reel. Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.



<sup>\*</sup>CE packages include 2-way vented valve (BSP: 125041 / NPT: 110223) and air regulator (BSP: 24H419 / NPT: 24H420).

Package 24H894 installed on a 275 gallon tote (not included in package).









Ordering Information

### **Deluxe Stationary Oil Packages – Tote**

Deluxe packages include SD Series hose reel. Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.





	•	24K843	
Package Number	24K839		
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	SD	SD	
Hose Reel Part Number	HPM65B	HPM65B	
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	

Package 24K839 installed on a 275 gallon tote (not included in package).











### Oil Packages - Tank Mount

Air regulator (part 24H420 - ordered separately) must be used for LD pump thermal relief function.





# **LD Series 5:1 Oil Pump Packages**





#### **Ordering Information**

#### **Deluxe Oil Packages - Tank Mount**

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





# **LD Series Oil Pump Accessories**









## Ordering Information

## **Air Regulators**

(M) (A)	Part Number	Description
	24H420	Mini air pressure regulator with gauge, 1/4 in NPT x 3/8 in NPT, self-relieving

#### **Carts**

7	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
3	131184	Drum dolly for 120 lb (54 kg) drum
3	129645	Drum dolly for 400 lb (182 kg) drum

#### **Downtubes**

1	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
000	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

#### **Suction Kits**

	Part Number	Description
1 /	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)









# **LD Series Oil Pump Accessories**

## Ordering Information

## **Mounting Hardware**

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

### **Tote Mount Accessories**

124	Part Number	Description	
	24F914	Meter drip tray for mounting to the side of IBC tote	
×10	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)	
2 11	24F930	op 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 SD Series hose reel to IBC tote mounting bracket 24F930 (24F930 bracket sold separately)	



# Mini Fire-Ball® 225 Oil Pumps









### 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 aluminium 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, aluminium and chrome on key components for longer life.

#### **Typical Applications**

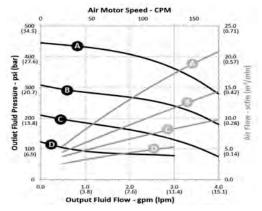
- · Automotive dealerships
- Fast lube centers
- · Service shops
- · Heavy-duty dealerships
- · Fleet services facilities
- In-plant
- · Lube trucks
- Mining

#### Typical Fluids Handled

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

#### **Pump Performance**

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









# Mini Fire-Ball 225 Oil Pumps



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 m³/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, aluminium, Rulon®				
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		3:1 Universal oil pump	
248097 3:1 Universal oil pump with suction tube (15C502) and bung adapter (2223)		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





<sup>\*\*</sup>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 systems. Use 3/8 in (9.5 mm) air regulator (109075) as required; must be ordered separately.



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



### **Bulk Oil Dispensing Packages**



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



10

Fire-Ball 300

# Fire-Ball 300 5:1 Oil Pumps









## 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 aluminium 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, aluminium and chrome on key components for longer life.

### Typical Applications

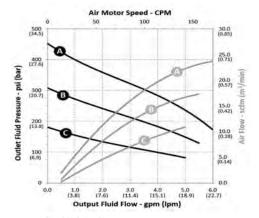
- · Automotive dealerships
- · Fast lube centers
- · Service shops
- · Heavy-duty dealerships
- · Fleet services facilities
- In-plant
- · Lube trucks
- Mining

### Typical Fluids Handled

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

### **Pump Performance**

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









# Fire-Ball 300 Oil Pumps

Fechnical 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 m³/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, aluminium, 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**



<sup>\*</sup>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.



<sup>\*\*</sup>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.





# Fire-Ball 300 5:1 Oil Pump Packages



Ordering Information

## **Bulk Oil Dispensing Packages**











	Ţ			
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	pel Size 1/2 in x 35 ft 1/2		1/2 in x 50 ft	1/2 in x 50 ft
Reel Type	SD	SD	SD	SD
Hose Reel	HPM33B	HPM65B	HPM65B	HPM65B
Type of Meter	SD	SD	SD	SD
Manual/Preset	Manual	Manual	Preset	Manual
Meter	255350	255350	255200	255350
90° Swivel	-	_	-	157416
Air Filter	-	-	_	106148
Drain Valve	-	-	-	127711
Hose	-	220598	220598	222063
Thermal Relief Valve	-	-	_	237893
				<u> </u>

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

218549

Hose Reel Inlet Kit

(Not Included)

Package 224534 installed on a

218549

bulk tank (not included in package).

218549

218549

# Fire-Ball 300 5:1 Oil Pump Packages









## **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 (2001) closed-head	55 gal (2001) 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		
CE Package	241050	241051	241052		

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







# Fire-Ball 425 Oil Pumps



# Fire-Ball 425 Oil Pump Packages

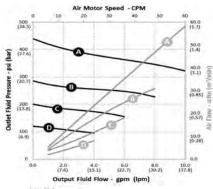




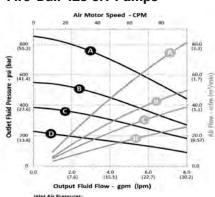


### **Pump Performance**

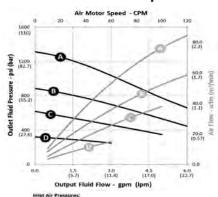
#### Fire-Ball 425 3:1 Pumps



#### Fire-Ball 425 6:1 Pumps



#### Fire-Ball 425 10:1 Pumps





	Outpu
iot d	ur Pressur
<b>(a)</b>	= 150 pel
1	(20.3 bar) = 100 ps)
0	(6.9 bar) = 70 psi
<u></u>	(4.0 bar)
۳	(2.8 bar)
Te	et fluid :

3:1	6:1	10:1	
4.25 in (107.9 mm)	4.25 in (107.9 mm)	4.25 in (107.9 mm)	
540 psi (37 bar / 3.7 MPa)	1,100 psi (76 bar / 7.6 MPa)	1,800 psi (124 bar / 12.4 MPa)	
12 gal/min (57 liters/min)	6 gal/min (42 liters/min)	4 gal/min (30 liters/min)	
631 cc	261 cc	189 cc	
43 scfm @ 13.4 gpm (1.23 m³/min @ 50.6 lpm)	44 scfm @ 6.7 gpm (1.25 m³/min @ 25.4 lpm)	45 scfm @ 4.0 gpm (1.27 m³/min @ 15.2 lpm) 1/2 in NPT(F) 1-1/2 in NPT(F)	
1/2 in NPT(F)	1/2 in NPT(F)		
1-1/2 in NPT(F)	1-1/2 in NPT(F)		
3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)	
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)	
66 cpm	78 cpm	60 cpm	
6 (1.6)	14.5 (3.8)	20 (5.3)	
Steel, polyurethane, aluminium, nitrile	Steel, polyurethane, aluminium, nitrile	Steel, polyurethane, aluminium, nitrile	
82 dB(A)	79.5 dB(A)	78 dB(A)	
46 lb (20.9 kg)	35 lb (15.9 kg)	29 lb (13.2 kg)	
308485	308608	308655	
	4.25 in (107.9 mm) 540 psi (37 bar / 3.7 MPa) 12 gal/min (57 liters/min) 631 cc 43 scfm @ 13.4 gpm (1.23 m³/min @ 50.6 lpm) 1/2 in NPT(F) 1-1/2 in NPT(F) 3/4 in NPT(F) 40 psi to 180 psi (2.8 bar to 12 bar) 66 cpm 6 (1.6) Steel, polyurethane, aluminium, nitrile 82 dB(A) 46 lb (20.9 kg)	4.25 in (107.9 mm)  540 psi (37 bar / 3.7 MPa)  12 gal/min (57 liters/min)  631 cc  43 scfm @ 13.4 gpm (1.23 m³/min @ 50.6 lpm)  1/2 in NPT(F)  1-1/2 in NPT(F)  3/4 in NPT(F)  40 psi to 180 psi (2.8 bar to 12 bar)  66 cpm  6 (1.6)  Steel, polyurethane, aluminium, nitrile  82 dB(A)  4.25 in (107.9 mm)  4.25 in (107.9 mm)  1,100 psi (76 bar / 7.6 MPa)  6 gal/min (42 liters/min)  6 gal/min (42 liters/min)  142 in NPT (9  44 scfm @ 6.7 gpm (1.25 m³/min @ 25.4 lpm)  1/2 in NPT(F)  1/2 in NPT(F)  1-1/2 in NPT(F)  3/4 in NPT(F)  40 psi to 180 psi (2.8 bar to 12 bar)  66 cpm  78 cpm  6 (1.6)  14.5 (3.8)  Steel, polyurethane, aluminium, nitrile  82 dB(A)  79.5 dB(A)  35 lb (15.9 kg)	

# 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



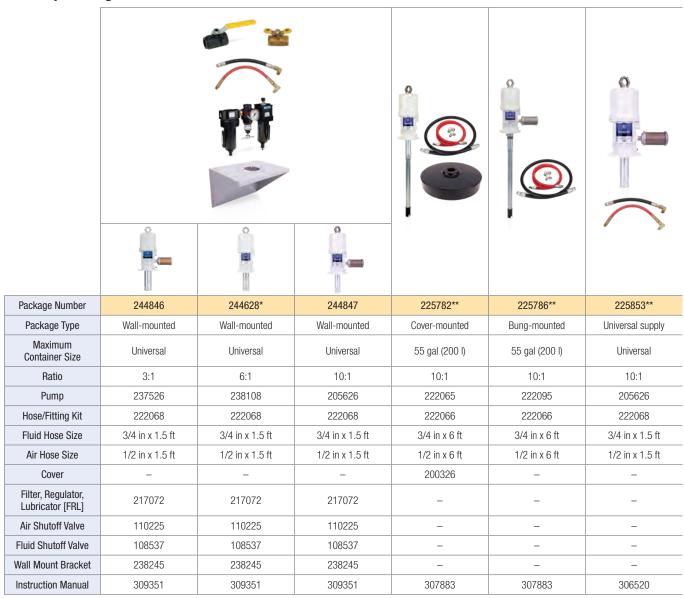




# Fire-Ball 425 Oil Pump Packages

#### **Ordering Information**

#### **Oil Pump Packages**



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

<sup>\*\*</sup>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.

# **Fire-Ball 425 Oil Pump Packages**







## 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
CE Package	241056	241057

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







# **Fast-Ball 1:1 Oil Pumps**



# Lube trucks

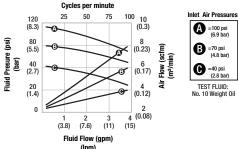
· Fleet services facilities

#### Mining

In-plant

#### Typical Fluids Handled

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





# Fast-Ball 1:1 Oil Pumps







chnical 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) 151 cc				
Output per Cycle					
Approximate Air Use and Flow @ 100 psi (80 cpm)	7 scfm @ 3.1 gpm (0.20 m³/min @ 11.7 lpm)				
Air Inlet	1/4 in NPT(F)				
Fluid Inlet	1-1/2 in NPT(F) 3/4 in NPT(F)				
Fluid Outlet					
Air Operation Range	40 psi to 80 psi (2.7 bar to 12.5 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 Packages**





# **Oil Pump Accessories Guide**

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		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	-	_	-	

<sup>\*</sup>Required

## Ordering Information

## **Bleed-Type Air Shut-Off Valves**

O	0	G
-	10/	100
1	-	1

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**

			Compatible			Includes		
	Part Number	Description	Pumps	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
	210880		Fire-Ball 300 5:1 Fire-Ball 425 10:1

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

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



# Ordering Information

### Downtube – Universal

f	Part Number	Description
	150502	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**

394	Part Number	Description	Includes		
	rait Number	Description	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
The state of the s	240718	3/8 in inlet, 60 mesh strainer, which prevents foreign material from entering dispense lines
in 18	238433	40 mesh replacement element for 240417, 3 count
	238434	40 mesh replacement element for 240417, 25 count
	238431	60 mesh (standard) replacement element for 240417, 3 count
	238432	60 mesh (standard) replacement element for 240417, 25 count
	238429	100 mesh replacement element for 240417, 3 count



## Ordering Information

#### Fluid Y-Strainers

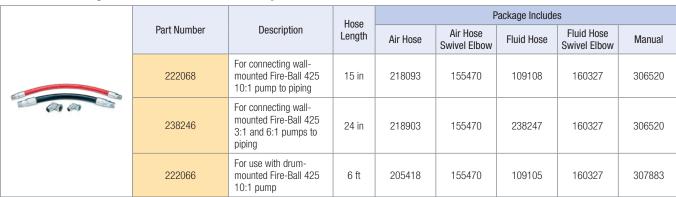


Part Number	Description
110877	1/2 in NPT inlet/outlet strainer, which filters material before entering the pump
110906	1/2 in NPT inlet/outlet strainer, replacement screen
101078	3/4 in NPT inlet/outlet strainer, which filters material before entering the pump
180199	3/4 in NPT inlet/outlet strainer,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





### 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.

8	Part Number	Inlet
po de	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	
Part Number		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





## Ordering Information

### **Suction Tubes**



Part Number	Container Size	Type of Mount   Compatible Pumps		Includes		
rait Nullibei	Container Size	Type of Mount Compatible	Compatible Fumps	Extension Size	Extension	Foot Spacer
238592	16 gal (60 l)	Cover-mounted	E 1 D 11 4 4	14-1/2 in	191126	110127
238593	55 gal (200 l)	Cover-mounted	Fast-Ball 1:1 Mini Fire-Ball 225 3:1	21-3/4 in	191128	110127
238595	55 gal (200 l)	Bung-mounted	Fire-Ball 300 5:1 Fire-Ball 425 10:1	26 in	191130	110127
238596	275 gal (1,100 l)	Bung-mounted	1110 Dall 423 10.1	36 in	191131	110127

#### **Thermal Relief Valve Kits**



Part Number	Pressure Rating	Compatible Pumps		Inclu	ıdes	
Fait Nullibei	Fressure nating	Compannie Fumps	Valve	Bung Adapter	Swivel	6 ft 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 Fire-Ball 425 6:1	112174	191075	155494	238370
248296	900 psi (62 bar)	Fire-Ball 300 5:1 Fire-Ball 425 6:1	102527	-	-	109163
237601	600 psi (41 bar)	Fire-Ball 425 3:1	113053	191075	155494	238370
240429	1,600 psi (110 bar)	Fire-Ball 425 10:1	102527	191075	155494	238370
248324	1,600 psi (110 bar)	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 300 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)

# **NXT High-Flo Pumps**

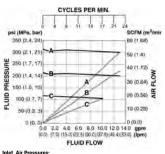






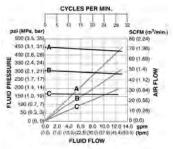
#### **Pump Performance**

### **NXT 3.5:1 High-Flo Pumps**



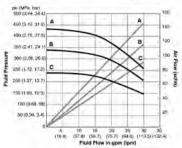


### **NXT 4.5:1 High-Flo Pumps**





### **NXT 6:1 High-Flo Pumps**





chnical Specifications			
Fluid Pressure Ratio	3.5:1	4.5:1	6:1
Air Motor Effective Diameter	7.5 in (191 mm)	7.5 in (191 mm)	10.375 in (264 mm)
Maximum Fluid Working Pressure	350 psi (24 bar / 2.4 MPa)	450 psi (31 bar / 3.1 MPa)	500 psi (34 bar / 3.4 MPa)
Output per Cycle	2,000 cc	1,500 cc	2,000 cc
Air Inlet	3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)
Fluid Inlet	1-1/2 in NPT(F)	1-1/2 in NPT(F)	2 in NPT(F)
Fluid Outlet	1 in NPT(F)	1 in NPT(F)	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 75 psi (1.4 bar to 5.2 bar)
Maximum Recommended Pump Speed	60 cpm	60 cpm	60 cpm
Cycles per Gallon (Liter)	1.9 (0.5)	2.5 (0.67)	1.9 (0.5)
Wetted Parts	Stainless steel, PTFE, leather, UHMWPE, carbon steel	Stainless steel, PTFE, leather, UHMWPE, carbon steel	Stainless steel, PTFE, leather, UHMWPE, carbon steel
Sound Pressure Level	77 dB(A)	77 dB(A)	80 dB(A)
Sound Power Level	87 dB(A)	87 dB(A)	90 dB(A)
Approximate Weight	99 lb (44.9 kg)	99 lb (44.9 kg)	178 lb (80.7 kg)
Instruction Manuals	System – 312862 Pump – 311211 Pump Lower – 311690 Motor – 311238	System – 312862 Pump – 311211 Pump Lower – 311690 Motor – 311238	System – 312862 Pump – 311831 Pump Lower – 311832 Motor – 311238









## Ordering Information

## Oil Pump Packages with DataTrak

Package Number with DataTrak	247888	247889	247892	247893
Ratio	3.5:1	4.5:1	6:1	6:1
Mounting	255143 (Wall)	255143 (Wall)	255143 (Wall)	218742 (Stand)
Pump with DataTrak and Thermal Relief Kit	24D590	24D591	24D594	24D594
Output per Cycle	2,000 cc	1,500 cc	2,000 cc	2,000 cc
Output at 60 CPM	31.5 gpm (119.2 lpm)	23.2 gpm (87.8 lpm)	31.5 gpm (119.2 lpm)	31.5 gpm (119.2 lpm)
Motor Size	NXT 3400	NXT 3400	NXT 6500	NXT 6500
Maximum Fluid Pressure	350 psi (24.1 bar)	450 psi (31 bar)	500 psi (35.2 bar)	500 psi (35.2 bar)
Maximum Air Input Pressure	100 psi (6.9 bar)	100 psi (6.9 bar)	75 psi (5.2 bar)	75 psi (5.2 bar)
System Manual	312862	312862	312862	312862
Pump Manual	311211	311211	311831	311831
Pump Lower Manual	311690	311690	311832	311832
Motor Manual	311238	311238	311238	311238
Pump Inlet Size	1-1/2 in NPT	1-1/2 in NPT	2 in NPT	2 in NPT
Pump Outlet Size	1 in NPT	1 in NPT	2 in NPT	2 in NPT
4 ft x 3/4 in Air Hose	110048	110048	110048	110048
6 ft x 1 in Fluid Hose	115042	115042	247969	247969
Instruction Manual	309351	309351	307883	306520

# Oil Pump Packages without DataTrak

Package Number without DataTrak	24D602	24D603	24D606	24D607
Ratio	3.5:1	4.5:1	6:1	6:1
Mounting	255143 (Wall)	255143 (Wall)	255143 (Wall)	218742 (Stand)
Pump without DataTrak and Thermal Relief Kit	24D596	24D597	24D600	24D600
Output per Cycle	2,000 cc	1,500 cc	2,000 cc	2,000 cc
Output at 60 CPM	31.5 gpm (119.2 lpm)	23.2 gpm (87.8 lpm)	31.5 gpm (119.2 lpm)	31.5 gpm (119.2 lpm)
Motor Size	NXT 3400	NXT 3400	NXT 6500	NXT 6500
Maximum Fluid Pressure	350 psi (24.1 bar)	450 psi (31 bar)	500 psi (35.2 bar)	500 psi (35.2 bar)
Maximum Air Input Pressure	100 psi (6.9 bar)	100 psi (6.9 bar)	75 psi (5.2 bar)	75 psi (5.2 bar)
System Manual	312862	312862	312862	312862
Pump Manual	311211	311211	311831	311831
Pump Lower Manual	311690	311690	311832	311832
Motor Manual	311238	311238	311238	311238
Pump Inlet Size	1-1/2 in NPT	1-1/2 in NPT	2 in NPT	2 in NPT
Pump Outlet Size	1 in NPT	1 in NPT	2 in NPT	2 in NPT
4 ft x 3/4 in Air Hose	110048	110048	110048	110048
6 ft x 1 in Fluid Hose	115042	115042	247969	247969
Instruction Manual	309351	309351	307883	306520

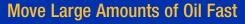


# **NXT<sup>™</sup> Dura-Flo® Pumps**









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.



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)



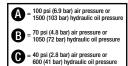






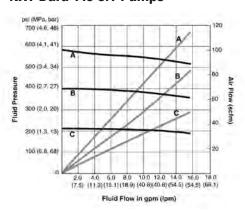
#### **Pump Performance**

#### Inlet Pressures

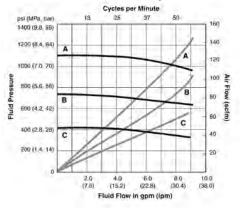


TEST FLUID: No. 10 Weight Oil

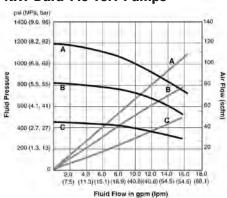
### **NXT Dura-Flo 6:1 Pumps**



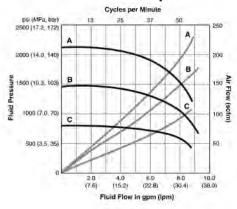
#### **NXT Dura-Flo 12:1 Pumps**



#### **NXT Dura-Flo 10:1 Pumps**



#### **NXT Dura-Flo 23:1 Pumps**



# **NXT Dura-Flo Pumps**







nnical 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 – 31182 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



# **Dyna-Star® Hydraulic Pumps**









#### **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)

chnical 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	Anti-freeze 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	Aluminium, 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







# **Dyna-Star Hydraulic Pumps**



### 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 I) drums
204574	For 16 gal (60 l) drums
222058	For 5 gal (20 I) 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.

18	Part Number	Description
	236865	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

# **Power-Star™ Hydraulic Pumps**







# 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

G Power-Star

- · Fleet services facilities
- In-plant
- Lube trucks
- Mining

#### Typical Fluids Handled

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

echnical 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	





# **Power-Star Hydraulic Pumps**



### 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 I) drums		
204574	For 16 gal (60 l) drums	
222058	For 5 gal (20 I) 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	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



# **Manually Operated Pumps**









Ordering Information

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

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



<sup>\*</sup>Hydraulic; can be used for gear oil dispensing.





## **Manually Operated Pumps**



#### **Ordering Information**

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

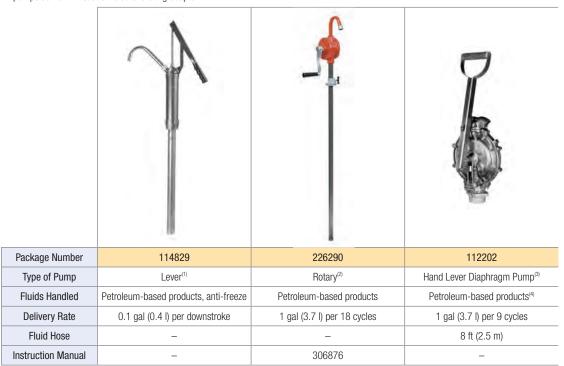
Mounts on top of standard 5 gal (20 I) pail (pail not included). Dispenses 1.6 oz to 1.9 oz. (47.3 ml to 56.2 ml) per stroke.



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.





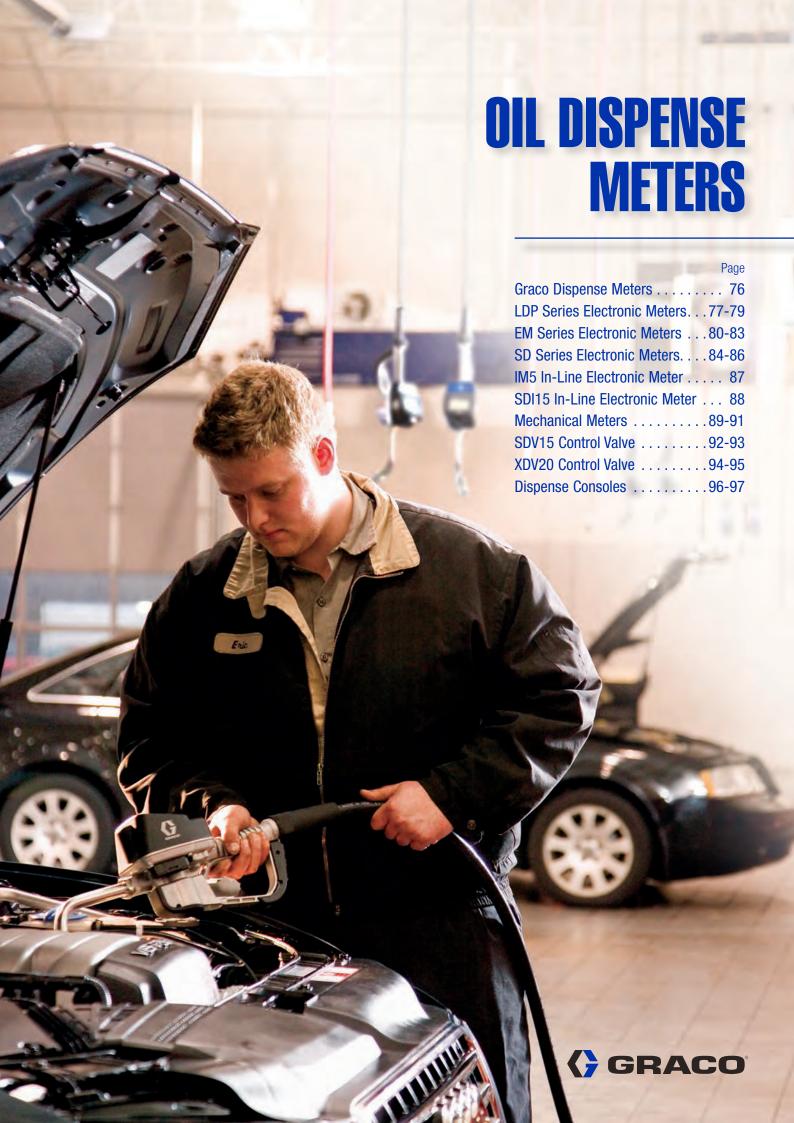
<sup>1</sup> Telescopic suction tube mounts 2 in NPT bung opening of 16 gal (60 l) or 55 gal (200 l) drum. Package includes bung adapter and spout outlet

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

<sup>3</sup> A double-action high-volume pump for gasoline and similar petroleum products. Fits 30 gal (113 l) to 55 gal (200 l) drum. Complete with an 8 ft (2.4 m) hose with 3/4 in fittings and aluminium telescoping suction pipe
4 This package is recommended for gasoline, diesel, heating oil and petroleum products, but NOT recommended for water-based fluids, solvents or weak acids

Notes	





# **Graco Dispense Meters**

	Fluid	Manual/ Preset	Maximum Working Pressure	Maximum Flow Rate	Intended Use	Warranty	Reference Pages
LDP Series Electronic Meters	Petroleum- and synthetic-based oils (motor, gear and ATF)     Anti-freeze	Manual/ Preset	1,000 psi (69 bar)	5 gpm (19 lpm)	Indoor	5 years overall (2 years electronics)	77-79
EM Series Electronic Meters	Petroleum- and synthetic-based oils (motor, gear and ATF)     Anti-freeze	Manual	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	5 years overall (3 years electronics)	80-83
SD Series Electronic Meters	<ul> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Anti-freeze</li> </ul>	Manual/ Preset	1,500 psi (103.4 bar)	14 gpm (53 lpm)	Indoor/ Limited Outdoor	7 years overall (3 years electronics)	84-86
IM5 In-Line Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Anti-freeze Windshield wash fluid	Manual	500 psi (34 bar)	5 gpm (19 lpm)	Indoor/ Outdoor	5 years overall (2 years electronics)	87
SDI15 In-Line Meters	<ul> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Anti-freeze</li> <li>Diesel exhaust fluid</li> </ul>	Manual	1,500 psi (103.4 bar)	15 gpm (56.8 lpm)	Indoor	7 years overall (3 years electronics)	88
Mechanical Meters	Petroleum- and synthetic-based oils (motor, gear and ATF)     Anti-freeze	Manual/ Preset	1,500 psi (103.4 bar)	8 gpm (30 lpm)	Indoor/ Outdoor	5 years	89-91
SDV15 Control Valves	Petroleum- and synthetic-based oils (motor, gear and ATF)     Anti-freeze	N/A	1,500 psi (103.4 bar)	15 gpm (56.8 lpm)	Indoor/ Outdoor	7 years	92-93
XDV20 Control Valves	Petroleum- and synthetic-based oils (motor, gear and ATF)     Anti-freeze	N/A	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	7 years	94-95









## **LDP Series Electronic Preset Meters**

#### **Perfect for Lower-Volume Service Applications**

For use in small service shops, fast lubes and low-volume in-plant applications.



Fluid Swivel

BSPT.

1/2 inch fluid inlet with

choice of NPT, BSPP or

#### Easy-to-Read LCD Screen

Keeps dispenses precise.

#### **Operator Controls**

Displays in quarts, pint, gallons or liters. Durable switches for long life.



Choose from rigid or flexible extensions with automatic thermal compensating nozzle.

#### Rugged Meter Body

Superior impact resistance and long life.

#### Comfortable Handle

Ergonomically designed for operator comfort. Two-finger trigger with latching on preset models.

#### **Typical Applications**

- Automotive dealerships
- Fast lube centers
- · Service shops
- Fleet services facilities
- In-plant

#### Typical Fluids Handled

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

#### **Technical Specifications**

Flow Range*	0.1 gpm to 5 gpm (0.4 lpm to 19 lpm)
Maximum Working Pressure	1,000 psi (69 bar)
Units of Measure	Quarts, pints, gallons, liters (factory set to quarts)
Accuracy**	+/- 0.5%
Inlet	1/2 in NPT
Outlet	1/2 in NPT
Maximum Totalizer	999,999 gallons or liters
Maximum Recorded Dispense	999.9 units
Maximum Preset Volume	999.9 units (LDP5 only)
Operating Temperature Range	32°F to 120°F (0°C to 48.8°C)
Storage Temperature Range	-30°F to 120°F (-34.4°C to 48.8°C)
Outdoor Use	No
Battery	9 volt alkaline
Battery Life	One year
Wetted Parts	SST, nitrile rubber, zinc, CS, LCP
Meter Pressure Loss*	90 psi (6.2 bar) @ 5 gpm (19 lpm)
Dimensions (without extension)	11 in L x 3.25 in W x 3.25 H (28 cm L x 8.3 cm W x 8.3 cm H)
Weight	3 lb (1.36 kg)
Warranty	Five years overall, two years electronics
Instruction Manual	312668

<sup>\*</sup>Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet and nozzle type.



<sup>\*\*</sup>At 2.5 gpm (9.5 lpm) @ 70°F (21°C) with 10 wt. oil and 1 gal (3.8 l) dispensed. May require recalibration. Out-of-box accuracy ±1.25%. Not recommended for in-line installation.

## **LDP Series Electronic Preset Meters**











#### Ordering Information

#### **LDP Series LDP5 Preset Meters**

Automatic nozzle included

	Extension	Inlet in (mm)		Part Number		Package	Includes
	Extension	iniet iii (iiiiii)	NPT	BSPT	BSPP	Trigger Guard	Swivel Cover
A	Flexible		258694	24F886	24F892	Yes	Yes
	Rigid	1/2 (13)	256216	24F884	24F890	Yes	Yes
	Flexible		255277	24F883	24F889	No	No

#### **Nozzle Extension Kits**

Extension	Fluid	Nozzle Description	Part Number
	Oil/Anti-freeze	Automatic, thermally compensating	239949
Rigid	Gear lube	Automatic, thermally compensating	239950
	Gear lube	Automatic	238887
Flexible	Oil/Anti-freeze	Automatic, thermally compensating	239951
North Only	Oil/Anti-freeze/Gear lube	Automatic, thermally compensating	239829
Nozzle Only	Oil/Anti-freeze/Gear lube	Automatic	238371



# Oil Dispense Meters and Control Valves







## **LDP Series Electronic Preset Meters**



#### **EM5/PM5 to LD Series Upgrade Kits**

	Part Number	Description
F	257350	EM5 to LDM5
P	257351	PM5 to LDP5

#### **Accessories**

Part Number	Description
240416	Inlet swivel
114017	Inlet filter, 80 mesh
 240453	Valve repair kit

#### **Protective Boots with Trigger Guards**

Part Number	Description
247759	Black
243835	Red
243836	Blue
243837	Green
247760	Yellow

#### **Swivel Covers**

	Part Number	Description
ORAÇO	191294	Black
GRACO	191287	Red
GRACO	191288	Blue
CRACO	191289	Green
Critical	191295	Yellow

#### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
() GRACO	17\$659	Red
Q GRACO	17S660	Blue
O GRACO	17S661	Green
O GRACO	17S662	Yellow
O GRACO	17S663	White

## **EM Series**<sup>™</sup> **Electronic Manual Dispense Meters**











## Low-Flow and High-Flow Manual Meters

Building on the heritage of Graco's first electronic meter, the EM Series features a robust design at an affordable price. Weather-rated and shock-resistant construction protects the electronics from intense high-pressure cleaning and mechanical vibration common in industrial applications.

#### Twist-Close Nozzle Prevents Leaking

Multiple extensions available including rigid, flexible and gear lube.

#### **High-Flow Rates**

Capable of up to 20 gpm.

#### Long Battery Life

Features upgraded electronics and easily replaceable AAA batteries.

#### Prevent Accidental Dispenses

Easy-to-hold locking handle.

#### **Proven in Harsh Conditions**

Sealed electronics (IP69K) are protected against direct pressure washing and dust.

#### Legacy Valve

1/2 and 3/4 inch inlets, compatible with oil, ATF, anti-freeze and gear lube.

#### **Typical Applications**

- Automotive dealerships
- · Service and fast lube centers
- Lube trucks
- Mining
- · Heavy-duty dealerships
- · Fleet service facilities
- In-plant

#### Typical Fluids Handled

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

hnical Specifications	EM8	EM20		
Flow Range	0.25 to 8 gpm (0.95 to 30.3 lpm)	0.25 to 20 gpm (0.95 to 75.7 lpm)		
Maximum Operating Pressure	1,500 psi (102 bar)			
Unit of Measure	Quarts, gallor	ns, pints, liters		
Accuracy/Repeatability	±0.	5%		
Inlet	1/2 npt 1/2 bspp 1/2 bspt	1/2 npt or 3/4 npt 1/2 bspp and 3/4 bspp 1/2 bspt and 3/4 bspt		
Outlet	3/4 straight thread O-ring boss	7/8 straight thread O-ring boss		
Maximum Totalizer	19,999 units			
Maximum Recorded Dispense	19,999 units			
Operating Temperature Range	-22°F to 180°F (-30°C to 82°C)			
Storage Temperature Range	-40°F to 185°F (-40°C to 85°C)			
Outdoor Use	Yes – IP69k as p	per DIN 40050-9		
Battery	2 (AAA) alkaline o	or 2 (AAA) lithium		
Wetted Parts	Aluminium, stainless steel, carbon s	teel, acetal, nitrile rubber, Geolast™		
Meter Pressure Loss*	30 psi @ 6 gpm	85 psi @ 12 gpm		
Dimensions	13 in L x 3.5 in W x 5.25 in H (33 cm L x 9 cm W x 13.3 cm H)			
Weight	3 lbs (1.36 kg)	3.1 lbs (1.39 kg)		
Warranty	Five years overall, three years electronics and 1 year wear parts			
Instruction Manual	3A5588			

<sup>\*</sup> Tested in 10W oil at 70°F (21°C). Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type. Geolast is a registered trademark of Advanced Elastomer Systems











# **EM Series Electronic Manual Dispense Meters**

## Ordering Information

		Extension Inlet in		Part Number		
		EXTENSION	Inlet in (mm)	NPT	BSPT	BSPP
		Flexible	1/2 (13)	25C904	25C912	25C908
EM8		Rigid		25C903	25C911	25C907
		Gear		25C905	25C913	25C909
		Flexible	1/2 (13)	25C915	25C921	25C927
EM20		I IGAIDIG	3/4 (19)	25C918	25C924	25C930
	Rigid	Digid	1/2 (13)	25C916	25C922	25C928
		3/4 (19)	25C919	25C925	25C931	

		Inlot in (mm)	Part Number		
		Inlet in (mm)	NPT	BSPT	BSPP
EM8		1/2 (13)	25D433	25D435	25D434
EM20	Ä	1/2 (13)	25D436	25D438	25D939
EM		3/4 (19)	25D437	25D440	25D441



## **EM Series**<sup>™</sup> **Electronic Manual Dispense Meters**











## **High-Flow In-Line Meter**

Graco's IM20 in-line meter is weather-rated and shock-resistant, protecting the electronics from intense, high-pressure cleaning and mechanical vibration common in industrial applications.



Simple operator control. Measures in quarts, gallons, pints and liters.

#### Easy Battery Replacement

Long-lasting, replaceable AAA batteries.



#### Sealed Electronics

IP69K-rated meter. Electronics are safe from pressure washing and dusty environments.

#### Tracks Totals in Two Modes

Reset total for a periodic dispense history and non-reset total for the meter's total dispense history.

#### **Typical Applications**

- · Automotive dealerships
- · Service and fast lube centers
- Lube trucks
- Mining
- · Heavy-duty dealerships
- Fleet service facilities
- In-plant

#### Typical Fluids Handled

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

chnical Specifications	
Flow Range*	0.25 to 20 gpm (0.95 to 75.7 lpm)
Maximum Working Pressure	1,500 psi (102 bar)
Unit of Measure	Quarts, pints, gallons, liters (factory set to quarts)
Accuracy/Repeatability	±0.5%
Inlet/Outlet	3/4 NPT
Maximum Totalizer	19,999 units
Maximum Recorded Dispense	19,999 units
Operating Temperature Range	-22°F to 180°F (-30°C to 82°C)
Storage Temperature Range	-40°F to 185°F (-40°C to 85°C)
Outdoor Use	Yes – IP69k as per DIN 40050-9
Battery	2 (AAA) alkaline or (2) AAA lithium
Wetted Parts	Aluminium, stainless steel, carbon steel, acetal, nitrile rubber, Geolast™
Meter Pressure Loss*	35 psi @ 12 gpm
Dimensions	4.2 in L x 3.4 in W x 3.2 in H (10.7 cm L x 8. cm W x 8.1 cm H)
Weight	1 lb. 4 oz. (0.57 kg)
Warranty	Seven year overall, three years electronics
Instruction Manual	3A5588

<sup>\*</sup>Tested in 10W oil at 70°F (21°C). Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type. Geolast is a registered trademark of Advanced Elastomer Systems.

#### Ordering Information

Part Number Description  25C841 IM20 high-flow, high-pressure in-line meter	
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# **EM Series Electronic Manual Dispense Meters**



#### Ordering Information

#### **Accessories**

Part Number	Description	
25D934	Electronic control replacement	
129876	Black impact guard for EM8 or EM20	
25D936	Battery kit: includes AAA batteries, Torx screws and bezel seal	
100896	3/4 NPT(M) x 1/2 NPT(F) adapter	

#### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
() GRACO	17S659	Red
Q GRACO	17\$660	Blue
O GRACO	17S661	Green
O GRACO	17S662	Yellow
O GRACO	17S663	White



## **SD Series Electronic Meters**









## For Standard and Heavier-Duty Applications

Designed to perform in larger dealerships, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.



Manual or preset options. Screen contrast adjusts for reading in all lighting conditions with easy setup and navigation.

#### **Durable Cast Body**

Solid construction to stand up to harsh environments and provide years of trouble-free performance.

#### **Connection Swivel**

1/2 and 3/4 inch fluid inlet options meet standard and high-flow requirements, choice of NPT, BSPP and BSPT threads.

#### **Typical Applications**

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

#### Typical Fluids Handled

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



#### Fluid Extension Kits

Choose from rigid or flexible extensions with automatic quick-close flush-mount nozzle design that re-seats after each dispense to prevent dirt contamination.

#### Long Battery Life

Uses four off-the-shelf AA batteries.

#### **Balanced Triggering**

SDM5/SDP5 - 0.1 apm to 5 apm (0.4 lpm to 19 lpm)

Four-finger pressure balance triggering for superior comfort and ergonomics. Features trigger locks on SDP5 and SDP15 preset models.

reormioar opeomoations	
Flow Range*	

Flow Range*	SDM3/SDP3 – 0.1 gpm to 3 gpm (0.4 ipm to 19 ipm) SDM15/SDP15 – 0.1 gpm to 14 gpm (0.4 ipm to 53 ipm)	
Maximum Working Pressure	1,500 psi (103.4 bar)	
Units of Measure	Pints, quarts, gallons, liters (factory set to quarts)	
Accuracy**	+/- 0.5%	
Inlet	3/4 in–14 NPT or 1/2 in–14 NPT	
Outlet	3/4 in–16 straight thread O-ring Boss	
Maximum Totalizer	999,999 gallons or liters	
Maximum Recorded Dispense	999.9 units	
Maximum Pre-Set Volume	999.9 units	
Operating Temperature Range	4°F to 158°F (-20°C to 70°C)	
Storage Temperature Range	-40°F to 158°F (-40°C to 70°C)	
Outdoor Use	Limited	
Battery	4 AA alkaline or 4 AA lithium	
Battery Life***	One year	
Wetted Parts	Aluminium, sst, pbt/pc, nitrile rubber, cs	
Meter Pressure Loss*	180 psi (12 bar) @ 14 gpm (53 lpm)	
Dimensions (without extension)	13 in L x 3.75 in W x 5.75 in H (33 cm x 9.5 cm x 14.6 cm)	
Weight	5 lb (2.3 kg)	
Warranty	Seven years overall, three years electronics	
Instruction Manual	312865	

<sup>\*</sup>Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet and nozzle type.



<sup>\*\*</sup>At 2.5 gpm (9.5 lpm) @ 70°F (21°C) with 10 wt. oil and 1 gal (3.8 l) dispensed. May require re-calibration. Out-of-box accuracy ±1.25%.

<sup>\*\*\*</sup>Average shop use with alkaline batteries (included); 30-35% longer life with lithium AA.

# $\Diamond$



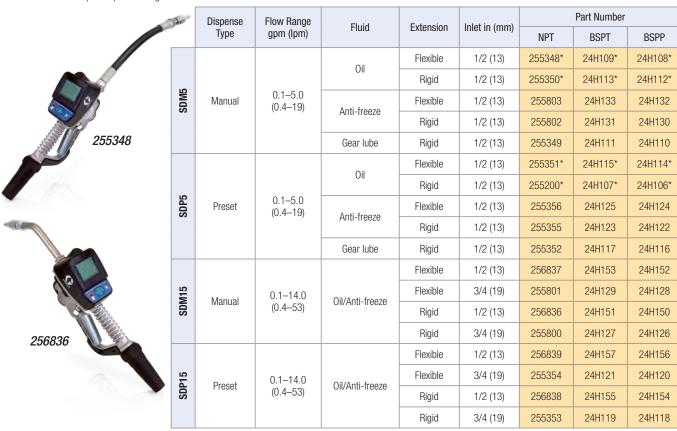






#### **SD Electronic Meters**

All nozzles are non-drip and quick closing.



**SD Series Electronic Meters** 

\*Oil nozzles are automatic



## **SD Series Electronic Meters Accessories**









## Ordering Information

#### **Nozzle and Extension Kits**

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
		Oil	Non-drip, quick-close	255852	SDM5/SDP5
	Rigid	Anti-freeze	Non-drip, quick-close	255855	SDM5/SDP5
<b>%</b>		Oil/Anti-freeze	Non-drip, quick-close	255857	SDM15/SDP15
Po	Rigid	Gear lube	Non-drip, quick-close	255854	SDM5/SDP5
		Oil	Automatic, non-drip, quick-close	255853	SDM5/SDP5
	Flexible	Anti-freeze	Non-drip, quick-close	255856	SDM5/SDP5
		Oil/Anti-freeze	High-flow, non-drip, quick-close	255858	SDM15/SDP15
		Oil	Automatic, non-drip, quick-close	255459	SDM5/SDP5
<i>3</i>	Nozzle Only	Anti-freeze	Non-drip, quick-close	255460	SDM5/SDP5
		Oil/Anti-freeze	High-flow, non-drip, quick-close	255461	SDM15/SDP15
45	Nozzle Only	Gear lube	Non-drip, quick-close	255470	SDM5/SDP5

#### **Filter Kits for SD Series Meters**

	Part Number	Description
CERO CONTRACTOR OF THE PARTY OF	255885	Kit includes filters/ strainers, spacers and 0-rings

#### **Swivel Covers**

Part Number	Description
15T366	Black
15T367	Red
15T368	Blue
15T369	Green
15T370	Yellow

#### **Impact Protection**

	Part Number	Description
0	24W327	Matrix/SD meter boot

#### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
() GRACO	17S659	Red
Q GRACO	17S660	Blue
O GRACO	17S661	Green
O GRACO	17S662	Yellow
O GRACO	17S663	White













## **IM5 In-Line Electronic Meter**



#### **Heavy-Duty Construction**

For indoor or outdoor use.

#### Easy-to-Read LCD

Simple operator controls and measures in pints, quarts, liters or gallons

#### Easy Battery Replacement

Operates on single 9V alkaline battery.

#### Tracks Totals in Two Modes

Reset total for a periodic dispense history and non-reset total for the meter's total dispense history.

#### **Typical Applications**

- · Automotive dealerships
- · Fast lube centers
- Service shops
- Fleet services facilities
- In-plant

#### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Anti-freeze
- · Windshield washer fluid

echnical Specifications	
Flow Range*	0.5 gpm to 5 gpm (1.9 lpm to 19 lpm)
Maximum Working Pressure	500 psi (34 bar)
Units of Measure	Quarts, pints, gallons, liters (factory-set to quarts)**
Accuracy	± 0.5%
Inlet/Outlet	1/2 NPT
Maximum Totalizer	99,999
Maximum Recorded Dispense	999.99
Operating Temperature Range	-4°F to 122°F (-20°C to 50°C)
Storage Temperature Range	-13°F to 122°F (-25°C to 50°C)
Outdoor Use	Yes
Battery	9-volt, alkaline
Wetted Parts	Nickel, zinc, zenite, nitrile rubber
Meter Pressure Loss*	25 psi (1.7 bar) @ 5 gpm (19 lpm)
Dimensions	4.25 in L x 3.25 in W x 2.0 in H (10.8 cm L x 8.3 cm W x 5.1 cm H)
Weight	1.8 lb (0.8 kg)
Warranty	Five years overall, two years electronics
Instruction Manual	308687

<sup>\*</sup>Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature and viscosity.

## >>> Ordering Information

#### Meter

Part Number	Description
239824	IM5 low pressure – low-flow in-line meter

#### **Accessory**

Part Number	Description
239876	Strainer kit



<sup>\*\*</sup>Display shows quantity in 0.01 increments up to 999.99 gallons, quarts, pints or liters. Totalizes in gallons or liters up to 99,999 units.

## **SDI15 In-Line Electronic Meter**

















Powered by two AA alkaline batteries.

#### Tracks Totals in Two Modes

Reset total for a periodic dispense history and non-reset total for the meter's total dispense history.



#### Rugged Stainless Steel Body

Remains corrosion free in hard environments for years of trouble-free service.

#### Large, Easy-to-Read LCD

Simple operator controls and measures in pints, quarts, liters or gallons.

#### **Typical Applications**

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

#### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Anti-freeze
- Windshield washer fluid
- · Diesel exhaust fluid

hnical Specifications	
Flow Range*	0.5 gpm to 15 gpm (1.9 lpm to 57 lpm)
Maximum Working Pressure	1,500 psi (103 bar)
Units of Measure	Quarts, pints, gallons, liters (factory-set to quarts)
Accuracy	± 0.5%
Inlet/Outlet	1/2 NPT or BSPP
Maximum Totalizer	99,999
Maximum Recorded Dispense	999.99
Operating Temperature Range	-4°F to 122°F (-20°C to 50°C)
Storage Temperature Range	-13°F to 122°F (-25°C to 50°C)
Outdoor Use	No
Battery	2AA alkaline
Wetted Parts	Nitrile rubber, SST and Geolast
Meter Pressure Loss*	22 psi (1.5 bar) @ 14 gpm (53 lpm)
Dimensions	5 in L x 3 in W x 2.75 in H (12.7 cm L x 7.6 cm W x 7 cm H)
Weight	1.8 lb (0.8 kg)
Warranty	Seven years overall, three years electronics
Instruction Manual	313048

<sup>\*</sup>Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature and viscosity

#### Ordering Information

#### **Meters**

Part Number	Description
247453	SDI15 medium/high pressure – medium-/high-flow in-line meter for petroleum- and synthetic-based oils, anti-freeze and windshield washer fluid
24G738	SDI15 medium/high pressure – medium-/high-flow in-line meter for diesel exhaust fluid applications (BSPP)

#### **Accessories**

	Part Number	Description	
-	108458	Shutoff ball valve 1/2 NPT(F)	
	223179	Strainer kit 1/2 NPT(F) 1/2 NPT(M)	











## **Mechanical Meters**



Ideal for indoor or outdoor use in all size shops.

#### Impact-Resistant Shroud

Resists scratches and protects knob and dial from damage.

#### Simple, Easy Design

Dial and face design is easy to read and set.

#### Fluid Swivel

½ inch fluid inlet with choice of NPT, BSPP or BSPT.

#### Fluid Extension Kits

Choose from rigid or flexible with automatic thermal compensating nozzle.

#### Built-In Totalizer

Helps manage material usage.

#### **Durable Cast Housing**

Durable aluminium body is balanced and lightweight with comfortable grip.

#### **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)
- Anti-freeze

#### **Technical Specifications**

Flow Range*	0.28 gpm (1.0 lpm) to 8 gpm (30.2 lpm)		
Maximum Working Pressure	1,500 psi (103 bar)		
Units of Measure	Quarts, gallons, liters		
Accuracy	± 1%		
Inlet	1/2 in NPT, BSPP, BSPT		
Outlet	3/4-16 straight thread O-ring boss		
Maximum Totalizer	99,999 units		
Maximum Recorded Dispense	60 gallons		
Operating Temperature Range	-50°F to 160°F (-45°C to 70°C)		
Outdoor Use	Yes		
Wetted Parts	Brass, aluminium, SST, TPE		
Meter Pressure Loss*	30 psi (2.1 bar) @ 4 gpm (15 lpm)		
Dimensions	11.5 in L x 5 in W x 6.3 in H (29.2 cm L x 12.7 cm W x 16 cm H)		
Weight	3.5 lb (1.6 kg)		
Warranty	Five years		
Instruction Manual	333492		

<sup>\*</sup>Tested with 10W motor oil. Minimum/maximum flow rates will vary with fluid viscosity.



## **Mechanical Meters**









#### Ordering Information

#### **Manual Meters**

	Extension	Model Description	NPT	BSPT	BSPP
	Bare	4/16 Liter	24U956	24U957	24U958
	Dale	4/16 Quart	24U959	-	-

#### **Manual Meter Packages**

	Extension	Model Description	NPT	BSPT	BSPP	Replacement Nozzle/Extension Kit
0	Flexible	4/16 Liter	24V043	24V044	24V045	255853
	riexible	4/16 Quart	24V034	-	-	255853
<b>@</b>	Dieid	4/16 Liter	24V046	24V047	24V048	255852
	Rigid	4/16 Quart	24V037	-	-	255852
	Coor Lubo	4/16 Liter	24V049	24V050	24V051	255854
	Gear Lube	4/16 Quart	24V040	-	-	255854

#### **Preset Meters**

	Extension	Model Description	NPT	BSPT	BSPP
		60 Gallon	24U950	-	-
	Bare	60 Liter	24U953	24U954	24U955
The state of the s		60 Quart	24U947	-	-













#### Ordering Information

#### **Preset Meter Packages**

	Extension	Model Description	NPT	BSPT	BSPP	Package Includes  Nozzle Extension
		60 Gallon	24Z129	-	-	255853
	Flexible	60 Liter	24Z132	-	-	255853
6		60 Quart	24Z126	-	-	255853
		60 Gallon	24Z128	-	-	255852
	Rigid	60 Liter	24Z131	-	-	255852
T. A.		60 Quart	24Z125	-	-	255852
	Short Rigid	60 Gallon	24V055	-	-	24W641
		60 Liter	24V058	24V059	24V060	24W641
To all		60 Quart	24V052	-	-	24W641
	Gear Lube	60 Gallon	24Z130	_	_	255854
T.		60 Liter	24Z133	_	_	255854
		60 Quart	24Z127	_	_	255854

#### **Nozzle Extensions**

Fluid	Extension	Compatible Meter	Part Number
	Flexible	Manual	255853
Oil	Rigid	Manual	255852
	Short Rigid	Preset	24W641
Anti-freeze	Flexible	Manual/Preset	24W306
Attu-treeze	Rigid	Manual/Preset	255855
Gear lube	Rigid	Manual	255854

#### **Accessories**

	Part Number	Description
-0	256164	Strainer filter kit, 10-pack



## **SDV15 Control Valve**













Designed to perform in larger dealerships, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.

#### Fluid Extension Kits

Choose from rigid or flexible extensions with automatic flush-mount nozzle design that re-seats after each dispense to prevent dirt contamination.

#### Lock-On/Lock-Off Trigger

For hands-free operation.

#### Sturdy Cast Body

Designed for use in tough environments.

#### 1/2 Inch Inlet with Swivel

Choice of NPT, BSPP and BSPT.



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

#### Typical Fluids Handled

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

15 gpm (56.8 lpm)
1,500 psi (103 bar)
1/2 in NPT, BSPP, BSPT
3/4-16 straight thread 0-ring boss
-40°F to 180°F (-40°C to 82°C)
Yes
Aluminium, SST, CS, acetal, nitrile rubber, tpe
12 in L x 8.4 in W x 2.4 in H (30.5 cm L x 21.3 cm W x 6.1 cm H)
0.4 lb (0.18 kg)
Seven years
312789

<sup>\*</sup>Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet fitting and nozzle type.













#### Ordering Information

#### **SDV15 Control Valve**

	Fluid	Fluid Extension Inl				
The state of the s	Fluid	Extension	Inlet in (mm)	NPT	BSPT	BSPP
	- Oil	Rigid		247712	24H390	24H384
A STATE OF THE STA	OII	Flexible		247713	24H391	24H385
	- Anti-freeze	Rigid	1/2 (13)	247715	24H393	24H387
		Flexible		247716	24H394	24H388
	Gear	Gear		247714	24H392	24H386

#### **SDV15 Bare Control Valve**

THE PARTY OF THE P	Inlet in (mm)	Part Number		
	milet in (min)	NPT BSPT BSPF		BSPP
	1/2 (13)	247717	24H395	24H389

#### **Quick Close Nozzles with Extension**

Extension	Part Number
Rigid	255857
Flexible	255858

#### **Filter Kit**

	Description	Part Number
0	Strainer filter kit	256164

#### **Quick Close Nozzle**

Extension sold separately.

	Fluid	Part Number
	Oil	255459
	Anti-freeze	255460
4	Gear lube	255470
	Oil/Anti-freeze (high-flow)	255461

## **XDV20 Control Valve**









## For Standard and **Heavier-Duty Applications**

Designed to perform in larger dealerships, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.



#### Fluid Extension Kits

Choose from rigid or flexible extensions with automatic flush-mount nozzle design that re-seats after each dispense to prevent dirt contamination.

#### Lock-On/Lock-Off Trigger

For hands-free operation.

#### Sturdy Cast Body

Designed for use in tough environments.

#### 1/2 and 3/4 Inch Inlet with Swivel Options

Meets standard and high flow requirements of NPT, BSPP and BSPT.

#### **Typical Applications**

- High-flow, non-metered oil dispense
- Automotive dealerships
- · Heavy-duty dealerships
- · Fast lube centers
- · Fleet service facilities
- In-plant
- Lube trucks
- Mining

#### Typical Fluids Handled

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

Technical Specifications	
Flow Range*	Up to 20 gpm (75.7 lpm)
Maximum Working Pressure	1,500 psi (103 bar)
Inlet	1/2 in or 3/4 in NPT, BSPP, BSPT
Outlet	7/8-14 straight thread 0-ring boss
Operating Temperature Range	-40°F to 180°F (-40°C to 82°C)
Outdoor Use	Yes
Wetted Parts	Aluminium, SST, CS, acetal, nitrile rubber, Geolast
Dimensions	12 in L x 8.4 in W x 2.4 in H (30.5 cm L x 21.3 cm W x 6.1 cm H)
Weight	0.4 lb (0.18 kg)
Warranty	Seven years
Instruction Manual	308642

 $<sup>^{\</sup>star}$ Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet fitting and nozzle type.













#### Ordering Information

#### **XDV20 Control Valve**

Includes high flow, quick-close nozzle.

	Extension	Extension Inlet in (mm)		Part Number		
	Extension	Inlet in (mm)	NPT	BSPT	BSPP	
	Diaid	1/2 (13)	247718	24H413	24H407	
Rigid	3/4 (19)	247722	24H415	24H409		
	Florible	1/2 (13)	247721	24H414	24H408	
FI	Flexible	3/4 (19)	247723	24H416	24H410	

#### **XDV20 Bare Control Valve**

	Inlot in (mm)		Part Number	
· Ma	Inlet in (mm)	NPT	BSPT	BSPP
	1/2 (13)	247724	24H417	24H411
1	3/4 (19)	247725	24H418	24H412

#### **Accessories**

	Part Number	Description
	255793	Quick-close high-flow nozzle for oil, ATF and anti-freeze
	255859	Flexible extension with quick-close nozzle (255793)
4	255921	Rigid extension with quick-close nozzle (255793)

## **Meter Dispense Consoles**

#### Ordering Information

#### **Lubricant Dispense Consoles**

Includes upper and lower plates with roller guides and brackets. Hoses not included.

Titte	Part Number	Description	Package Includes		
4444	Part Number	Description	Dispense Valve Brackets (qty)	Water Bib Brackets (qty)	
2234	222629	Six-station console	196471 (5)	110236 (1)	
	223448	Four-station console	196471 (3)	110236 (1)	
	222645	Single add-on fluid module	196471 (1)	-	

#### **Lubricant Dispense Consoles Accessories**

	Part Number	Description
	110236	Water bib bracket
	110237	Dispense valve bracket for XD meters
-	110285	Pistol-grip dispense valve bracket
4	196471	Dispense valve bracket for LDP5, EM8 and EM20 meters
	249440	Dispense valve bracket for SD/Matrix meters

# **Dispense Consoles**

#### >>> Ordering Information

#### **Oil Dispense Bar**

4	Part Number	Description
	220107	Modular oil dispense bar supports up to 3 dispense taps (1 included) and optional meters. Add up to two additional dispense valves with tap kit 220112.

#### **Accessories for Oil Dispense Bar**

	Part Number	Description
	220112	Dispenser valve kit for adding dispense valves to modular oil dispense bar.
TO STATE OF THE PARTY OF THE PA	239706	Meter kit for adding IM5 electronic totalizing meter to dispense valve. Reads in gallons, quarts, pints and liters.



Notes

# GREASE PUMPS

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# **Grease 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 Outlet	Air Operation Range	Reference Page
LD, 50:1	Automotive dealerships     Fast lube centers     Lube trucks     Lubricant transfer     Service shops	Up to 7,000 lbs (3,175 kg)	Up to 100 (30.5 m)	1	4.5 lbs/min (2 kg/min)	1/4 in NPT(F)	1/4 in NPT(F)	20-150 psi (1.37-10.3 bar)	102-108
Mini Fireball 225, 50:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	Up to 10,000 lbs (4,535 kg)	Up to 100 (30.5 m)	1	1.5 lbs/min (0.7 kg/min)	3/8 in NPT(F)	1/4 in NPT(F)	40-140 psi (2.8-10 bar)	109-112 127-130
Fireball 300, 15:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	Up to 10,000 lbs (4,535 kg)	Up to 250 ft (76 m)	1-2	7.5 lbs/min (3.4 kg/min)	3/8 in NPT(F)	1/4 in NPT(F)	40-180 psi (2.8-12.5 bar)	113-115 127-130
Fireball 300, 50:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	Up to 10,000 lbs (4,535 kg)	Up to 250 ft (76 m)	1-2	7.5 lbs/min (3.4 kg/min)	3/8 in NPT(F)	1/4 in NPT(F)	30-140 psi (2.1-9.7 bar)	113-114 116-120 127-130
Fireball 425, 10:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	> 20,000 lbs (9,072 kg)	Up to 500 ft (152 m)	4 or more	29 lbs/min (13.1 kg/min)	1/2 in NPT(F)	1 in NPT(F)	40-180 psi (2.8-12.5 bar)	121-122 127-130
Fireball 425, 50:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	> 20,000 lbs (9,072 kg)	Up to 250 ft (76 m)	4 or more	9 lbs/min (4.1 kg/min)	1/2 in NPT(F)	3/8 in NPT(F)	40-150 psi (2.8-10.3 bar)	121-123 125-130
Fireball 425, 75:1	Automotive dealerships     Fast lube centers     Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Lubricant transfer     Mining     Service shops	> 20,000 lbs (9,072 kg)	Up to 500 ft (152 m)	4 or more	6.5 lbs/min (2.9 kg/min)	1/2 in NPT(F)	3/8 in NPT(F)	40-100psi (2.8-7 bar)	121-122 124-130
GT 750, 36:1	Fleet service facilities     Heavy-duty dealerships     In-plant     Lube trucks     Mining	> 20,000 lbs (9,072 kg)	Up to 250 ft (76 m)	4 or more	32 lbs/min (14.5 kg/min)	1/2 in NPT(F)	1 in NPT(F)	40-100psi (2.8-7 bar)	131-132



# **Grease Pump Selection Guide**

Pump Family and Fluid Pressure Ratio	Typical Applications	Annual Usage	Air Inlet	Fluid Outlet	Air Operation Range	Reference Page
Check-Mate 14:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 20,000 lbs (9,072 kg)	3/4 in NPT(F)	1-1/2 in NPT(M)	0-100 psi (0-7 bar)	133-134 136-137
Check-Mate 26:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1-1/2 in NPT(M)	0-100 psi (0-7 bar)	133-134 136
Check-Mate 29:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1 in NPT(F)	0-100 psi (0-7 bar)	133-134 136
Check-Mate 55:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1 in NPT(F)	0-100 psi (0-7 bar)	133 135-136
Check-Mate 63:1	Fleet service facilities In-plant large runs Large volume lubricant transfer Mining remote fill	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	3/4 in NPT(M)	0-72 psi (0-4.9 bar)	133 135-137
Check-Mate 68:1	Fleet service facilities     In-plant large runs     Large volume lubricant transfer     Mining remote fill	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1 in NPT(F)	0-78 psi (0-5.4 bar)	133 135-137

Pump Family and Fluid Pressure Ratio	Typical Applications	Maximum Grease Output Flow Rate	Maximum Grease Output Pressure	Hydraulic Inlet (Supply)	Hydraulic Outlet (Return)	Grease Outlet	Maximum Hydraulic Inlet Pressure	Reference Page
Dyna-Star 5:1	Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops	4 lb/min (1.8 kg/min)	7500 psi (517 bar)	3/8 in NPT(F)	3/4 in NPT(F)	1/2 in NPT(F)	1500 psi (102 bar)	138-139
Dyna-Star 10:1	Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops	1.1 lb/min (0.5 kg/min)	7500 psi (517 bar)	3/4 in -16 JIC (37° Flare)	3/4 in NPT(F)	1/2 in NPT(F)	600 psi (41 bar)	138-139
Viscount II 2.4:1	Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops	54 lb/min (20.4 kg/min)	2300 psi (159 bar)	3/4 in NPT(F)	1 in NPT(F)	1-1/2 in NPT(F)	1500 psi (102 bar)	140-141



## **LD Series 50:1 Grease Pumps**





**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 (up to 7,000 lb/year) 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.

#### **Typical Applications**

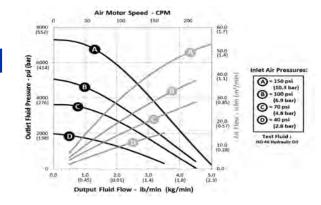
- Automotive dealerships
- · Fast lube centers
- · Service shops
- Lube trucks

#### Typical Fluids Handled

Grease up to NLGI #2

#### **Pump Performance**

#### **LD Series 50:1 Pumps**







# **LD Series 50:1 Grease Pumps**

chnical Specifications	
Fluid Pressure Ratio	50:1
Air Motor Effective Diameter	3 in (76.2 mm)
Annual Usage	Up to 7,000 lb (3,175 kg)
Maximum Fluid Working Pressure	7,500 psi (517 bar / 51.7 MPa)
Approximate Free Flow Rate @ 100 psi	4.5 lb/min (2 kg/min)
Output per Cycle	0.34 oz (9.7 g)
Approximate Air Use and Flow @ 100 psi (80 cpm)	16 @ 1.7 lb/min (0.45 @ 0.77 kg/min)
Air Inlet	1/4 in NPT(F)
Fluid Outlet	1/4 in NPT(F)
Air Operation Range	20 psi to 150 psi (1.37 bar to 10.3 bar)
Max Recommended Pump Speed	120 cpm
Cycles per Pound (Kg)	47 cpp (103 cpk)
Wetted Parts	Steel, brass, nitrile rubber, polyurethane, UHMWPE, aceta
Sound Pressure Level	72.9 dB(A)
Sound Power Level	82 dB(A)
Approximate Weight	35 lb drum – 11.2 lb (5.1 kg) 120 lb drum – 15.0 lb (6.8 kg) 400 lb drum – 17.0 lb (7.7 kg)
Instruction Manual	3A1334

## Ordering Information

#### **LD Series 50:1 Pumps**

Part Number	Description
24G600	For 35 lb (16 kg) pail
24G603	For 120 lb (55 kg) drum
24G606	For 400 lb (180 kg) drum



## **LD Series 50:1 Grease Pump Packages**



## Ordering Information

#### 35 lb Grease Packages





## **LD Series 50:1 Grease Pump Packages**

#### **Ordering Information**

#### 120 lb Grease Packages





## **LD Series 50:1 Grease Pump Packages**



#### Ordering Information

#### 400 lb Grease Packages







## **LD Series 50:1 Grease Pump Accessories**

#### **LD Pro-Shot<sup>™</sup> Non-Metered Grease Valves**



Tec	Technical Specifications					
	Pressure	7,500 psi (517 bar / 51.7 MPa)				
	Wetted Parts	Steel, nitrile rubber, PTFE				
	Inlet Size	1/4 in				

#### Ordering Information

Part Number	Description
129581	LD Pro Shot Grease Valve, 1/4 in NPT
129582	LD Pro Shot Grease Valve, 1/4 in BSPP
129583	LD Pro Shot Grease Valve, 1/4 in BSPT

#### **LD Z-Swivel**



- · Swivels to prevent twist damage to hoses
- Constructed of heavy-duty steel and ball bearings for smooth and unrestricted movement

#### **Technical Specifications** Pressure 6,000 psi (413 bar / 41.3 MPa) Inlet Size 1/4 in

#### Ordering Information

	Part Number	Description
-	129591	Z-swivel, 1/4 in NPT
	129592	Z-swivel, 1/4 in BSPP
	129593	Z-swivel, 1/4 in BSPT



## **LD Series 50:1 Grease Pump Accessories**

Part Number



#### Ordering Information

#### **Adjustable Bung Adapter**

9				
d	<b>1</b>	12		
	300			
	1			
	3	3	30	16

24P623	Adjustable bung adapter for LD pumps

Description

#### **Air Regulators**



Part Number	Description
24H420	Mini self-relieving air regulator with gauge, 1/4 in NPT x 3/8 in npsm

#### **Carts**



Part Number	Description
24H422	Drum cart with pneumatic wheels for 120 lb drums; includes chain for securing drum to cart
24F915	Drum cart with pneumatic wheels for 400 lb drums; includes chain for securing drum to cart

#### **Drum Covers**



	Part Number	Description
	24F904	Cover for 35 lb (16 kg) pails
24F905 Cover for open-head 120 lb (54 kg) drums		Cover for open-head 120 lb (54 kg) drums
	24F906	Cover for open-head 400 lb (182 kg) drums

#### **LD Drum Dollies**



Part Number	Description
131183	Drum Dolly, 35 lb (16 kg)
131184	Drum Dolly, 120 lb (54 kg)
129645	Drum Dolly, 400 lb (182 kg)

#### **Follower Plates**



Part Number	Description
24F901	Follower plate for 35 lb (16 kg) pails
24F902	Follower plate for 120 lb (54 kg) drums
24F903	Follower plate for 400 lb (182 kg) drums

#### **Hose and Fitting Kits**

	Part Number	Description	Includes				
Part	Fait Number	Description	Grease Hose	Grease Hose Size	Air Hose	Air Hose Size	Fitting
00	24H862	6 ft LD grease pump hose kit	24H606	1/4 in NPT(M) x 1/4 in NPT(M) x 6 ft	24H858	3/8 in x 6 ft	156823
00	24J501	6 ft LD grease pump hose kit	24J487	1/4 in NPT(M) x 1/4 in NPT(M) x 6 ft	24H858	3/8 in x 6 ft	156823



# Mini Fire-Ball® 225 Grease Pumps



## 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 aluminium 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, aluminium and chrome on key components for longer life.

### **Typical Applications**

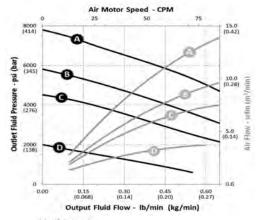
- · Automotive dealerships
- · Fast lube centers
- Service shops
- · Heavy-duty dealerships
- Fleet services facilities
- In-plant
- · Lube trucks
- Mining

### Typical Fluids Handled

· Grease up to NLGI #2

### **Pump Performance**

### Mini Fire-Ball 225 Pumps







# Mini Fire-Ball® 225 Grease Pumps



chnical Specifications	
Fluid Pressure Ratio	50:1
Air Motor Effective Diameter	2.25 in (57.2 mm)
Annual Usage	Up to 10,000 lb (4,535 kg)
Maximum Fluid Working Pressure	8,400 psi (578 bar / 57.8 MPa)
Approximate Free Flow Rate @ 100 psi	1.5 lb/min (0.7 kg/min)
Output per Cycle	0.12 oz (3.5 g)
Continuous Duty Flow Rate	0.32 lb/min (0.15 kg/min)
Approximate Air Use and Flow @ 100 psi (80 cpm)	9.3 @ 0.62 lb/min (0.26 @ 0.28 kg/min)
Air Inlet	3/8 in NPT(F)
Fluid Outlet	1/4 in NPT(F)
Air Operation Range	40 psi to 140 psi (3 bar to 10 bar)
Max Recommended Pump Speed	100 cpm
Cycles per Pound (Kg)	130 cpp (287 cpk)
Wetted Parts	Carbon steel, zinc plating, brass, polyurethane, ultra-high molecular weight polyethylene, Buna-N
Sound Pressure Level	77.8 dB(A)
Sound Power Level	85.6 dB(A)
Approximate Weight	15 lb (6.8 kg)
Instruction Manual	309966

# Ordering Information

# Mini Fire-Ball 50:1 Pumps

Part Number	Description				
246909	For 35 lb (16 kg) pail				
253361	For 35 lb (16 kg) pail, without handle				
246780	For 120 lb (55 kg) drum				
246781	For 400 lb (180 kg) drum				



### Ordering Information

## 35 lb and 50 lb Grease Packages



P	ackage Number	246910*	246911*	246913*
Ratio		50:1	50:1	50:1
1	Type of Package	Portable pail dispenser	Stationary pail dispenser	Cart-mounted pail dispenser
Container Size		35 lb to 50 lb (16 kg to 23 kg)	35 lb to 50 lb (16 kg to 23 kg)	35 lb to 50 lb (16 kg to 23 kg)
	Container	-	204134	204134
Pι	ımp Part Number	246909	246909	246909
	Fluid Hose Size	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft
D	Dispense Hose Kit	236058	236058	236058
ges	12 ft Hose	109151	109151	109151
Inclu	Air Coupler	114558	114558	114558
e Kit	Air Fitting	169971	169971	169971
Dispense Kit Includes	Z-Swivel	202577	202577	202577
Dis	Pro-Shot Valve	242056	242056	242056
	Follower Plate	24F901	**	**
	Drum Cover	222059	24R350	24R350
	Portable Base	-	_	203650
In	struction Manual	309967	309967	309967
	CE Package	253384	255385	255386



<sup>\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.
\*\*Order follower plate (220653) separately for 35 lb (16 kg) pails or (220654) for 70 lb (32 kg) bulk.



# Ordering Information

### 120 lb and 400 lb Grease Packages



<sup>\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.





# Fire-Ball® 300 Grease Pumps



## Ideal for Shops with Grease Transfer

Install the Fire-Ball 300 in grease dispense applications. A differential air motor ensures smooth the double-acting pump design provides reliable grease flow and accurate dispense.



Thick cast aluminium 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, aluminium 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

· Grease up to NLGI #2



# Fire-Ball® 300 Grease Pumps

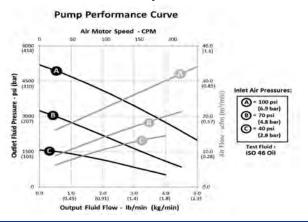


### **Pump Performance**

### Fire-Ball 300 15:1 Pumps

# **Pump Performance Curve** 15.0 Outlet Fluid Pressure - psi (bar) (6.9 bar) (6.9 bar) (6.9 bar) (70 psi (4.8 bar) (2.8 bar) 5.0 E 250 (17)

### Fire-Ball 300 50:1 Pumps



	Fire-Ball 300 15:1	Fire-Ball 300 50:1
Fluid Pressure Ratio	15:1	50:1
Air Motor Effective Diameter	3 in (76.2 mm)	3 in (76.2 mm)
Annual Usage	Up to 10,000 lb (4,535 kg)	Up to 10,000 lb (4,535 kg)
Maximum Fluid Working Pressure	2,700 psi (186 bar / 18.6 MPa)	8,400 psi (579 bar / 57.9 MPa)
Approximate Free Flow Rate @ 100 psi	7.5 lb/min (3.4 kg/min)	7.5 lb/min (3.4 kg/min)
Output per Cycle	1.29 oz (36.6 g)	0.34 oz (9.5 g)
Continuous Duty Flow Rate	0.7 lb/min (0.32 kg/min)	1.19 lb/min (0.54 kg/min)
Approximate Air Use and Flow @ 100 psi (80 cpm)	14 @ 6.5 lb/min (0.40 @ 2.9 kg/min)	21 @ 1.7 lb/min (0.59 @ 0.77 kg/mii
Air Inlet	3/8 in NPT(F)	3/8 in NPT(F)
Fluid Outlet	1/4 in NPT(F)	1/4 in NPT(F)
Air Operation Range	40 psi to 180 psi (2.8 bar to 12.5 bar)	30 psi to 140 psi (3.0 bar to 9.7 bar)
Max Recommended Pump Speed	66 cpm	76 cpm
Cycles per Pound (Kg)	12.4 cpp (27 cpk)	47.4 cpp (105 cpk)
Wetted Parts	Carbon steel, brass, copper, aluminium, PTFE, nitrile rubber, leather	Steel, brass, aluminium, acetal, nitrile rubber, polyurethane
Sound Pressure Level	77.8 dB(A)	77.8 dB(A)
Sound Power Level	85.6 dB(A)	85.6 dB(A)
Approximate Weight	22 lb (10 kg)	22 lb (10 kg)
Instruction Manual	306531	308883

# Ordering Information

### Fire-Ball 300 Grease Pumps

Part Number	Ratio	Description
206405	15:1	For 35 lb (16 kg) pail
206699	15:1	For 120 lb (55 kg) drum
206700	15:1	For 400 lb (180 kg) drum
239877	50:1	For 35 lb or 70 lb (16 kg or 32 kg) pail
239887	50:1	For 120 lb (55 kg) drum
239888	50:1	For 400 lb (180 kg) drum



## Ordering Information

## **15:1 Grease Pump Packages**



Package Number		222078	220170	220171
Type of Package		Stationary Pail Dispenser	Stationary Drum Dispenser	Cover-Mounted Drum Dispenser
Ratio		15:1	15:1	15:1
	Container Size         35 lb (16 kg)         120 lb (55 kg)         4		400 lb (180 kg)	
Pu	mp Part Number	206405	206699	206700
	Dispense Kit	222080	222081	222081
Fluid Hose		1/4 in x 15 ft	1/4 in x 25 ft	1/4 in x 25 ft
	Hose Part Number	109165	109167	109167
	Air Coupler	110198	110198	110198
SS	Air Fitting	-	169971	169971
Closed Nipple	156849	156849	156849	
Z-Swivel		202577	202577	202577
Closed Nipple  Z-Swivel  Fitting(s)  Dispenser		169971	_	_
Dispenser		Pro-Shot	Pro-Shot	Pro-Shot
	Dispenser Part Number	242056	242056	242056
	Air Regulator	110234	110234	110234
	Air Pressure Gauge	100960	100960	100960
	Drum Cover	222058	204574	200326
		307882	307882	
	CE Package	241043	241044	241045





# Ordering Information

### 50:1 25 to 50 lb Grease Pump Packages



<sup>\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.



# >>> Ordering Information

## 50:1 120 lb Grease Pump Packages

							- Asi
Р	ackage Number	225006*	225026*	26C185*	26C186*	245696*	222245*
1	ype of Package	Portable with caster base	Portable with 2-wheel cart	Portable with caster base	Portable with 2-wheel cart	Portable with 2-wheel cart	Portable with heavy duty cart
	Ratio	50:1	50:1	50:1	50:1	50:1	50:1
	Container Size	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)
Pι	mp Part Number	239887	239887	239887	239887	239887	239887
	Dispense Kits	222070	222070	26C183	26C183	245697	222383
	Fluid Hose	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 25 ft
	Hose Part Number	109151	109151	109151	109151	109151	109154
SS	6 ft Coupled Hose	_	-	_	_	_	-
Dispense Kit Includes	Air Coupler	114558	114558	114558	114558	114558	114558
Kit I	Air Fitting	169971	169971	169971	169971	169971	169971
euse	Z-swivel	202577	202577	202577	202577	202577	202577
Disp	Fitting(s)	-	-	_	_	_	_
	Dispenser	Pro-Shot	Pro-Shot	Pro-Shot	Pro-Shot	Accu-Shot	Pro-Shot
	Dispenser Part Number	242056	242056	26C184	26C184	233807	242056
	Fluid Hose Size	See kit above	See kit above	See kit above	See kit above	See kit above	See kit above
	Air Hose Size	-	-	_	_	_	_
	Meter	See kit above	See kit above	See kit above	See kit above	See kit above	See kit above
М	eter Part Number	See kit above	See kit above	See kit above	See kit above	See kit above	See kit above
Follower Plate		24F902	24F902	24F902	24F902	220654	24F902
Drum Cover		24R350	24R350	24R350	24R350	204574	222060
Holster		203976	203976	203976	203976	203976	_
	Portable Base	203622	203650	203622	203650	203650	222243
	Elevator	_	_	_	_	-	_
	Pump Support	_	_	-	_	_	_
	Hold Down Kit	_	-	-	_	_	222061
ln	struction Manual	307878	307878	307878	307878	307878	307878
	CE Package	240880	240881	-	-	-	240882
*1  04	*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.						

<sup>\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.





# Ordering Information

## 50:1 120 lb Grease Pump Packages



Package Number		225014*	222073*
Type of Package		Stationary supply	Stationary supply topper-inductor
	Ratio	50:1	50:1
	Container Size	120 lb (55 kg)	120 lb (55 kg)
Pι	ımp Part Number	239887	239887
Dispense Kits		222072	-
Fluid Hose		1/4 in x 6 ft	-
	Hose Part Number	109150	-
SS	6 ft Coupled Hose	203320	-
Dispense Kit Includes	Air Coupler	-	-
KitIn	Air Fitting	-	-
suse	Z-swivel	_	-
Dispe	Fitting(s)	155494/155541	-
	Dispenser	-	-
	Dispenser Part Number	-	-
Fluid Hose Size		See kit above	1/4 in x 6 ft
Air Hose Size		See kit above	3/8 in x 6 ft
	Meter	Pro-Shot	Pro-Shot
М	eter Part Number	242056	242056
	Follower Plate	24F902	-
	Drum Cover	24R350	-
Holster		-	-
Portable Base		-	-
Elevator		-	204121
	Pump Support	-	222074
	Hold Down Kit	-	-
In	struction Manual	307880	306523
	CE Package	241034	-

<sup>\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

## 50:1 400 lb Grease Pump Packages



Package Number		225016*	226013*
1	Type of Package	Stationary supply	Stationary supply topper-inductor
	Ratio	50:1	50:1
	Container Size	400 lb (180 kg)	400 lb (180 kg)
Pι	ımp Part Number	239888	239888
Но	se and Fitting Kits	222072	204467
səpr	Fluid Hose	1/4 in x 6 ft	1/4 in x 6 ft
Dispense Kit Includes	Hose Part Number	109150	109150
ense K	6 ft Coupled Hose	203320	-
Dispe	Fitting(s)	155494/155541	100206/156971/205528
	Air Hose Size	3/8 in x 6 ft	3/8 in x 6 ft
	Follower Plate	24F903	_
	Drum Cover	200326	_
	Elevator	-	204385
	Pump Support	-	204461
	Inductor Plate	_	204353
	Base	-	205339
In	struction Manual	307880	306556
	CE Package	241035	-

<sup>\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.



# >>> Ordering Information

## **50:1 Grease Pump Lube Truck Packages**



P	ackage Number	222085*	222071*
Type of Package		Lube truck	Lube truck
	Ratio	50:1	50:1
	Container Size	120 lb (55 kg)	400 lb (180 kg)
Pı	ımp Part Number	239887	239888
	Dispense Kits	222072	222072
sapn	Fluid Hose	1/4 in x 6 ft	1/4 in x 6 ft
Dispense Kit Includes	Hose Part Number	109150	109150
ense K	6 ft Coupled Hose	203320	203320
Dispe	Fitting(s)	155494/155541	155494/155541
	Air Hose Size	3/8 in x 6 ft	3/8 in x 6 ft
	Follower Plate	220654	223845
	Drum Cover	222060	207366
	Hold Down Kit	222061	207361
In	struction Manual	307880	307880
	CE Package	241036	241037

<sup>\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

Dispense Kit Includes

# Fire-Ball® 300 Grease Pump Packages



# Ordering Information

### 50:1 Grease Pump Side Pocket and Horizontal Mount Packages







# Fire-Ball® 425 Grease Pumps



## The Pump of Choice for Your Most **Demanding Applications!**

The Fire-Ball 425 features a large 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.



Thick cast aluminium 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, aluminium 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

· Grease up to NLGI #2

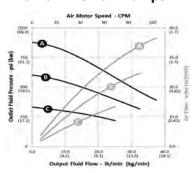


# Fire-Ball® 425 Grease Pumps



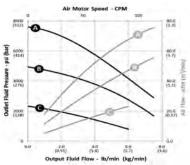
### **Pump Performance**

### Fire-Ball 425 10:1 Pumps



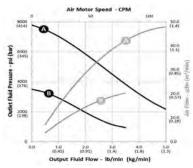


### Fire-Ball 425 50:1 Pumps





### Fire-Ball 425 75:1 Pumps





hnical Specifications			
	Fire-Ball 425 10:1	Fire-Ball 425 50:1	Fire-Ball 425 75:1
Fluid Pressure Ratio	10:1	50:1	75:1
Air Motor Effective Diameter	4.25 in (108 mm)	4.25 in (108 mm)	4.25 in (108 mm)
Annual Usage	20,000+ lb (9,072+ kg)	20,000+ lb (9,072+ kg)	20,000+ lb (9,072+ kg)
Maximum Fluid Working Pressure	1,800 psi (124 bar / 12.4 MPa)	7,500 psi (517 bar / 51.7 MPa)	7,500 psi (517 bar / 51.7 MPa)
Approximate Free Flow Rate @ 100 psi	29 lb/min (13.1 kg/min)	9 lb/min (4.1 kg/min)	6.5 lb/min (2.9 kg/min)
Output per Cycle	5.82 oz (164.7 g)	1.06 oz (30 g)	0.71 oz (20 g)
Continuous Duty Flow Rate	3.5 lb/min (1.59 kg/min)	3.35 lb/min (1.52 kg/min)	1.95 lb/min (0.88 kg/min)
Approximate Air Use and Flow @ 100 psi (80 cpm)	45 @ 29 lb/min (1.3 @ 13 kg/min)	43 @ 5.3 lb/min (1.2 @ 2.4 kg/min)	43 @ 3.5 lb/min (1.2 @ 1.6 kg/mi
Air Inlet	1/2 in NPT(F)	1/2 in NPT(F)	1/2 in NPT(F)
Fluid Outlet	1 in NPT(F)	3/8 in NPT(F)	3/8 in NPT(F)
Air Operation Range	40 psi to 180 psi (2.8 bar to 12.5 bar)	40 psi to 150 psi (2.8 bar to 10.4 bar)	40 psi to 100 psi (2.8 bar to 7 ba
Max Recommended Pump Speed	60 cpm	60 cpm	60 cpm
Cycles per Pound	2.75 срр	15.1 cpp	22.7 cpp
Cycles per Kg	6 cpk	33 cpk	50 cpk
Wetted Parts	Steel, brass, aluminium, leather, Buna-N	CS, brass, aluminium, leather	CS, brass, aluminium, leather
Sound Pressure Level	80.9 dB(A)	80.9 dB(A)	80.9 dB(A)
Sound Power Level	94.6 dB(A)	94.6 dB(A)	94.6 dB(A)
Approximate Weight	38 lb (17.2 kg)	34 lb to 37 lb (15 kg to 17 kg)	30 lb to 37 lb (14 kg to 17 kg)
Instruction Manual	309407	306674	308777

### Ordering Information

### Fire-Ball 425 Grease Pumps

Part Number	Ratio	Description
965124	10:1	Stubby pump
965129*	10:1	For 400 lb (180 kg) drum
205394	50:1	For 120 lb (55 kg) drum
205395	50:1	For 400 lb (180 kg) drum

Part Number	Ratio	Description
239731	75:1	For 35 or 70 lb (16 or 32 kg) pail
239729	75:1	For 120 lb (55 kg) drum
239730	75:1	For 400 lb (180 kg) drum

<sup>\*</sup>Includes 2 in NPT Bung Adapter (part number 222308).



# Ordering Information

## 50:1 120 lb and 400 lb Grease Pump Packages



					Ture 201 100 (Hami 1000Hibity) Hot oriotti
Package Number		223108*	225781*	226018*	244905
	Type of Package	Stationary Supply	Stationary Supply	Stationary Supply Topper-Inductor	Stationary Ram
	Ratio	50:1	50:1	50:1	50:1
	Container Size	120 lb (55 kg)	400 lb (180 kg)	400 lb (180 kg)	400 lb (180 kg)
Р	ump Part Number	205394	205395	205395	205395
	Dispense Kits	222076	222076	205102	222076
sapr	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
it Incli	Hose Part Number	109163	109163	109163	109163
Dispense Kit Includes	6 ft Coupled Hose	205418	205418	_	205418
Dispe	Fitting(s)	155470/155494	155470/155494	156859/196220/205528	155470/155494
	Air Hose Size	1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft
	Drum Cover	204574	200326	_	-
	Follower Plate	223344	223846	_	-
	Pump Support	-	_	204461	-
	Elevator	-	_	204385	_
	Inductor Plate	-	_	205699	-
	Base	-	-	205339	-
	Ram	-	-	-	257435
	Adapter Plate	-	_	_	162225
	Adapter Kit	-	_	_	224266
F	Ram Plate Seal Kit	-	-	_	247335
lı	nstruction Manual	307880	307880	306556	309345
	CE Package	241039	241040	_	257589

 $<sup>^{\</sup>star}$ Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately.



# Ordering Information

## 75:1 120 lb and 400 lb Grease Pump Packages



					Tare 207 100 (Harri 1000Hibity) Hot ofform
Package Number		244635*	244636*	244637*	244906
Type of Package		Stationary Cover-Mount	Stationary Cover-Mount	Stationary Inductor	Stationary Ram
Ratio		75:1	75:1	75:1	75:1
Container Size		120 lb (55 kg)	400 lb (180 kg)	400 lb (180 kg)	400 lb (180 kg)
Р	ump Part Number	239729	239730	239730	239730
	Dispense Kits	222076	222076	205102	222076
sapr	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
Dispense Kit Includes	Hose Part Number	109163	109163	109163	109163
ense k	6 ft Coupled Hose	205418	205418	-	205418
Dispe	Fitting(s)	155470/155494	155470/155494	156859/196220/205528	155470/155494
Air Hose Size		1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft
	Drum Cover	204574	200326	_	-
Follower Plate		223344	223846	-	-
	Pump Support	-	-	204461	-
	Elevator	-	-	204385	_
	Inductor Plate		-	205699	
	Base	-	-	205339	-
	Ram	-	-	-	257435
	Adapter Kit	-	-	_	224266
F	am Plate Seal Kit	-	-	_	247355
	Pump Mount Kit	-	-	-	247337
lı	nstruction Manual	307880	307880	306556	309345
	CE Package	24M271	24M272	_	_

 $<sup>^{\</sup>star}$ Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately.

# Ordering Information

## 50:1 and 75:1 Grease Pump Lube Truck Packages

		,					
Р	ackage Number	223107*	222075*	243817*	243818**		
1	ype of Package	Lube Truck	Lube Truck	Lube Truck	Lube Truck		
	Ratio	50:1	50:1	75:1	75:1		
	Container Size	120 lb (55 kg)	400 lb (180 kg)	120 lb (55 kg)	400 lb (180 kg)		
Pι	ımp Part Number	205394	205395	239729	239730		
	Dispense Kits	222076	222076	222076	222076		
sapr	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft		
Dispense Kit Includes	Hose Part Number	109163	109163	109163	109163		
suse K	6 ft Coupled Hose	205418	205418	205418	205418		
Dispe	Fitting(s)	155470/155494	155470/155494	155470/155494	155470/155494		
	Air Hose Size	1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft		
	Drum Cover	222060	207366	222060	207366		
	Follower Plate	223344	223846	223344	223846		
	Hold Down Kit	222061	207361	222061	207361		
ln	struction Manual	307880	307880	307880	307880		
CE Package		241041	241042	24M273	24M274		

<sup>\*</sup>Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately.

<sup>\*\*</sup>Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.



# Ordering Information

### 50:1 and 75:1 Grease Pump Side Pocket and Horizontal Mount Packages







### Ordering Information

## **Air Regulators**

2
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Part Number	Description
109075	3/8 in NPT (fbe) with gauge
244844	1/2 in NPT (fbe) with gauge

# **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	Dimensions	Compatible Pumps
239965	1.65 in ID	Fire-Ball 425, 50:1 Fire-Ball 425, 75:1
239966	1.29 in ID	Fire-Ball 300, 15:1 Fire-Ball 300, 50:1

## **Dispense Hose and Fitting Kits**



		Includes							
Part Number	Compatible Pump(s)	Fluid Hose Size	Fluid Hose	Grease Dispense Valve	Z-Swivel	3/8 in Closed Nipple	Quick- Disconnect Nipple	Quick- Disconnect Coupler	3/8 in Air Regulator
222080	Fire-Ball 300, 15:1	1/4 in x 15 ft	109165	242056	202577	156849	169971	110198	110234
222081	Fire-Ball 300, 15:1	1/4 in x 25 ft	109167	242056	202577	156849	169971	110198	110234
236058	Mini Fire-Ball 225, 50:1	1/4 in x 12 ft	109151	242056	202577	_	169971	114558	-
222070	Fire-Ball 300, 50:1	1/4 in x 12 ft	109151	242056	202577	-	169971	114558	_
26C183	Fire-Ball 300, 50:1	1/4 in x 12 ft	109151	26C184	202577	-	169971	114558	_
222383	Mini Fire-Ball 225, 50:1 Fire-Ball 300, 50:1	1/4 in x 25 ft	109154	242056	202577	-	169971	114558	_

## **Hose and Fitting Kits**



				Inclu	ıdes	Fluid Hose Swivel Elbow		
Part Number	Pressure Rating	Compatible Pumps	6 ft Air Hose	Air Hose Swivel Elbow	6 ft Fluid Hose			
222072	5,000 psi (345 bar)	Fire-Ball 300, 50:1	203320	155494	109150	155541		
222076	4,000 psi (276 bar)	Fire-Ball 425, 50:1	205418	155470	109163	155494		



## Ordering Information

### **Drum Covers**

	Part Number	Description	Compatible Pumps
	222059	Mini Fire-Ball 225, 50:1 Fire-Ball 300, 50:1	
	24R350	LD Cover for open-head 35 lb (16 kg), 70 lb (32 kg) or 120 lb (55 kg) drums	Mini Fire-Ball 225, 50:1 Fire-Ball Pumps
	204574	SD Cover for open-head 70 lb (32 kg) or 120 lb (55 kg)	Mini Fire-Ball 225, 50:1 Fire-Ball Pumps
	200326	Cover for open-head 400 lb (180 kg) drums	Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1 Fire-Ball 425, 10:1 and 50:1
	160754	Bung-adapter plate for mounting pump to 120 lb (55 kg) or 400 lb (180 kg) drum covers	Fire-Ball Pumps

### **Drum Elevator**

<b>≱•</b>	Part Number	Description		Includes	
	Part Number Description	Description	Cover Support	Drum Elevator	Air Control Kit
	241663	Air-powered elevator to speed up 400 lb (180 kg) drum changes	207562	204385	207561

# Flange Mounting Accessories for Fire-Ball Pumps

	Part Number	Description	
	948393	Flange Adapter (male) for Fire-Ball 300 Pumps	
	948392	Flange Adapter (male) for Fire-Ball 425 Pumps	
8	512874	Coupler (female), 3 in thread	





### Ordering Information

### **Follower Plates**

	Part Number	Container Size	Flexible Wiper	Compatible Pumps
	24F901	35 lb (16 kg)	16F769	LD 50:1 Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1
	24F902	70 lb (32 kg) 120 lb (55 kg)	16F781	LD 50:1 Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1
	24F903	400 lb (180 kg)	16F784	LD 50:1 Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1
	220653	35 lb (16 kg)	183241	Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1
	220654	70 lb (32 kg) 120 lb (55 kg)	183243	Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1
	223845	400 lb (180 kg)	186463	Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1
	204130	400 lb (180 kg)	_	Mini Fire-Ball 225, 50:1 Fire-Ball 300, 15:1 Fire-Ball 300, 50:1
	223344	120 lb (55 kg)	183243	Fire-Ball 425, 50:1 Fire-Ball 425, 75:1
	223700	120 lb (55 kg)	183243	Dyna-Star 5:1
	223701	400 lb (180 kg)	186463	Dyna-Star 5:1 Fire-Ball 425 10:1
	223846	400 lb (180 kg)	186463	Fire-Ball 425, 50:1 Fire-Ball 425, 75:1
	205337	400 lb (180 kg)	-	Fire-Ball 425, 50:1 Fire-Ball 425, 75:1

## **High-Pressure Grease Shut-Off Valve**

Part Number	Description	Pressure Rating	Inlet
202869	High-pressure needle valve	5,000 psi (345 bar)	1/2 in

## **Lincoln-to-Graco Adapter Kit**

Part Number	Description	Compatible Pump
241246	For Replacing a Series 20 Lincoln	Fire-Ball 300, 50:1





## Ordering Information

### **Portable Bases**

	Part Number	Description
500	131183	Drum dolly, 35 lb (16 kg)
Q,	131184	Drum dolly, 120 lb (54 kg)
	129645	Drum dolly, 400 lb (182 kg)
	203622	Caster base for 120 lb (54 kg) drums

### **Carts**

	Part Number	Description	Compatible Container Size
	203650	Drums fit onto recess on formed base. Rim clamps secure drum onto cart.	35 lb (16 kg) 70 lb (32 kg) 120 lb (55 kg)
4	222243	Heavy-duty drum cart with pneumatic wheels	120 lb (55 kg)
	111470	Heavy-duty drum truck on roll-around base	400 lb (180 kg)

## **Pro-Shot Dispense Valves**

- 10	Part Number	Description
	242056	1/4 in NPT(F) inlet with coupler and extension 200389
	242055	1/4 in NPT(F) inlet without coupler or extension
	242058	3/8 in NPT(F) inlet with coupler and extension 200389
	242057	3/8 in NPT(F) inlet without coupler or extension
	224872	Includes 30 in (76.2 cm) whip hose (109148), Z-Swivel (202577), and grease valve (242056)

### **Swivel**

	Part Number	Description
The state of the s	202577	Z-Swivel allows non-binding movement for hard-to-reach locations, 1/4-18 NPT





# GT 750 36:1 Grease Pumps

# **Fewer Strokes and Longer Pump Life**

The GT 750\* pump was engineered to perform in challenging applications and changing environments. The large 7.5-inch air motor and pump lower combination allows the GT 750 pump to move the same amount of grease with up to four times fewer pump strokes.



### Efficient Air Motor

Use less air to move more grease.

## **High Flow Rates**

Up to 30 lb/min of grease.

## High Volume Per Stroke

Pump more grease without having to drive pump too quickly to damage seals.

## Proven Pump Technology

Based on Graco  $\mathsf{NXT}^{^\mathsf{TM}}$  pump technology.

### Multiple Tank Options

Available in 35, 120 and 400 lb down tube lengths.

### **Typical Applications**

- · Lube trucks
- Mining
- · Heavy-duty dealerships
- Fleet service facilities
- In-plant

### Typical Fluids Handled

· Grease up to NLGI #2

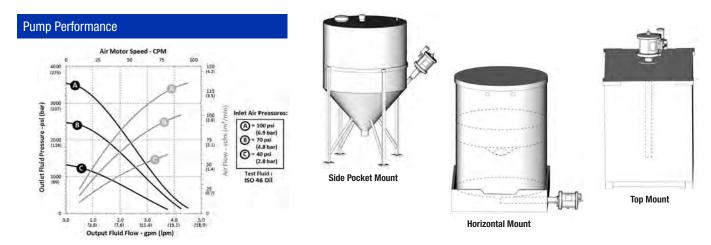
chnical Specifications	
Fluid Pressure Ratio	36:1
Air Pressure Operating Range	40-100 psi (3-7 bar)
Maximum Working Pressure	3600 psi (248 bar)
Maximum Recommended Pump Speed	60 cycles per minute
Air Motor Effective Diameter	7.5 in (190 mm)
Stroke	4.75 in (121 mm)
Air Inlet	1/2 in NPT
Fluid Outlet	1 in NPT
Maximum Delivery	30 lb/min (13.6 kg/min)
Pump Weight	59 lb (26.8 kg)
Wetted Parts	Steel, brass, Buna-N, urethane, ductile iron, aluminium
Sound Power (measured at 70 psi [4.8 bar], 20 CPM per ISO-9414-2)	77.2 dBa
Sound Pressure (tested at 3.28 ft [1 m] from equipment)	70.5 dBa
Pump Cycles Per Pound	3 cycles
Pump Cycles Per KG	6 cycles
Warranty	Five years overall and 1 year wear parts
Instruction Manual	3A5363

<sup>\*</sup> Not CE-marked



# GT 750 36:1 Grease Pumps





# Ordering Information

## GT 750 36:1 Grease Pumps (not CE-marked)

Part Number	Description
24W498	GT 750, 36:1 Grease Pump, stubby length
25D116	GT 750, 36:1 Grease Pump, 120 lb length
24W337	GT 750, 36:1 Grease Pump, 400 lb length

### **Accessories**

Part Number	Description
131380	3 in Male Camlock Adapter
131394	3 in Female Camlock Adapter







**Move Large Amounts of Grease Fast** 

Tested to outperform and outlast all other pumps on the market – with its long-life packing design and intuitive, easy-to-use controls — the NXT<sup>™</sup> 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<sup>™</sup> 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 deicing 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 services facilities
- In-plant
- Mining

### Typical Fluids Handled

· Grease up to NLGI #2



### Pump Performance

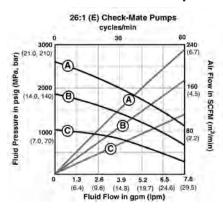


TEST FLUID: No. 10 Weight Oil

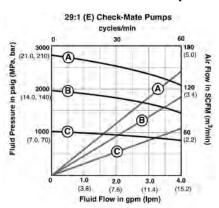
### **NXT 14:1 Check-Mate Pumps**

## 14:1 (E) Check-Mate Pumps cycles/min Fluid Pressure in psig (MPa, bar) 1600 (11.2, 112) Air Flow in SCFM (m3/mln) Ø 800 (5.6, 56) ø 400 (2.8, 28 1.3 2.6 3.9 5.2 8.5 7.8 (6.4) (9.8) (14.8) (19.7) (24.6) (29.5) Fluid Flow in gpm (lpm)

### **NXT 26:1 Check-Mate Pumps**



### **NXT 29:1 Check-Mate Pumps**



nnical Specifications			
	NXT Check-Mate 14:1	NXT Check-Mate 26:1	NXT Check-Mate 29:1
Fluid Pressure Ratio	14:1	26:1	29:1
Air Motor	NXT 3400	NXT 6500	NXT 3400
Air Motor Effective Diameter	7.5 in (191 mm)	10.4 in (264 mm)	7.5 in (191 mm)
Pump Lower	L500CS	L500CS	L250CS
Maximum Fluid Working Pressure	1,400 psi (97 bar / 9.7 MPa)	2,600 psi (179 bar / 17.9 MPa)	2,900 psi (200 bar / 20 MPa)
Output per Cycle	15.4 oz (435 g)	15.4 oz (435 g)	7.7 oz (218 g)
Air Inlet	3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)
Fluid Outlet	1-1/2 in NPT(M)	1-1/2 in NPT(M)	1 in NPT(F)
Air Operation Range	0 psi to 100 psi (0 bar 7 bar)	0 psi to 100 psi (0 bar to 7 bar)	0 psi to 100 psi (0 bar to 7 bar
Max Recommended Pump Speed	20 cpm	20 cpm	20 cpm
Cycles per Pound	1.0 срр	1.0 cpp	2.1 срр
Cycles per Kg	2 cpk	2 cpk	5 cpk
Wetted Parts	303, 304, 316 and 17-4PH grades of stainless steel; ductile iron and carbon steel, electroless nickel plated; carbon steel, zinc and electroless nickel plated; E52100 and ETD 150 alloy steel; PTFE; UHMWPE; carbon-filled PTFE; acetal	303, 304, 316 and 17-4PH grades of stainless steel; ductile iron and carbon steel, electroless nickel plated; carbon steel, zinc and electroless nickel plated; E52100 and ETD 150 alloy steel; PTFE; UHMWPE; carbon-filled PTFE; acetal	ETD 150, 41L40, and 4140 allo steel; 304, 316, 17-4PH and 440C grades of stainless steel acetal; carbon-filled PTFE; carbo steel; ductile iron; electroless nickel, zinc and chrome plating PTFE; UHMWPE
Sound Pressure Level	77 dB(A)	80 dB(A)	77 dB(A)
Sound Power Level	87 dB(A)	90 dB(A)	87 dB(A)
Approximate Weight	152 lb (69 kg)	169 lb (77 kg)	128 lb (58 kg)
Instruction Manual	System – 312863 Pump – 312376 Pump Lower – 312375 Air Motor – 311238	System – 312863 Pump – 312376 Pump Lower – 312375 Air Motor – 311238	System – 312863 Pump – 312376 Pump Lower – 312375 Air Motor – 311238

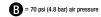




### Pump Performance

### Inlet Pressures:





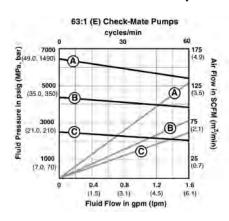


TEST FLUID: No. 10 Weight Oil

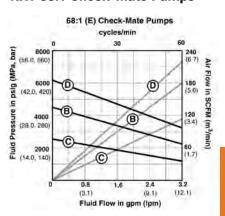
### **NXT 55:1 Check-Mate Pumps**

# 55:1 (E) Check-Mate Pumps cycles/min 30 6000 (42.0, 420) Air Flow in SCFM (m3/min) Fluid Pressure in psig (MPa, **(A)** (14.0. 140 1.0 2.0 3.0 (3.6) (7.5) (11.4) Fluid Flow in gpm (lpm) (15.2)

### **NXT 63:1 Check-Mate Pumps**



### **NXT 68:1 Check-Mate Pumps**



hnical Specifications			
	NXT Check-Mate 55:1	NXT Check-Mate 63:1	NXT Check-Mate 68:1
Fluid Pressure Ratio	55:1	63:1	68:1
Air Motor Effective Diameter	10.4 in (264 mm)	7.5 in (191 mm)	10.4 in (264 mm)
Maximum Fluid Working Pressure	5,500 psi (379 bar / 37.9 MPa)	4,500 psi (310 bar / 31 MPa)	5,300 psi (366 bar / 36.6 MPa)
Output per Cycle	7.7 oz (218 g)	3.1 oz (87 g)	6.1 oz (174 g)
Air Inlet	3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)
Fluid Outlet	1 in NPT(F)	3/4 in NPT(M)	1 in NPT(F)
Air Operation Range	0 psi to 100 psi (0 bar to 7 bar)	0 psi to 72 psi (0 bar to 4.9 bar)	0 psi to 78 psi (0 bar to 5.4 bar)
Max Recommended Pump Speed	20 cpm	20 cpm	20 cpm
Cycles per Pound	2.1 срр	5.2 cpp	2.6 срр
Cycles per Kg	5 cpk	11 cpk	6 cpk
Wetted Parts	ETD 150, 41L40 and 4140 alloy steel; 304 and 17-4PH grades of stainless steel; acetal; carbon- filled PTFE; CS; ductile iron; eNi, Zn and chrome plating; UHMWPE	ETD 150, 41L40 and 4140 alloy steel; 304 and 17-4PH grades of stainless steel; acetal; carbon- filled PTFE; CS; ductile iron; eNi, Zn and chrome plating; UHMWPE	ETD 150, 41L40 and 4140 alloy steel; 304, 316 and 17-4PH grades of stainless steel; acetal; carbon-filled PTFE; CS; ductile iron; eNi, Zn and chrome plating; PTFE; UHMWPE
Sound Pressure Level	80 dB(A)	87 dB(A) 80 dB(A)	
Sound Power Level	90 dB(A)	87 dB(A)	90 dB(A)
Approximate Weight	145 lb (66 kg)	101 lb (46 kg)	145 lb (66 kg)
Instruction Manual	System — 312863 Pump — 312376 Pump Lower — 312375 Air Motor — 311238	System — 312863 Pump — 312376 Pump Lower — 312375 Air Motor — 311238	System - 312863 Pump - 312376 Pump Lower - 312375 Air Motor - 311238



## Ordering Information

## **Pump Packages with DataTrak**

Package Number	247973	247976	247974	247977	247975	247978
Ratio	14:1	26:1	29:1	55:1	63:1	68:1
Pump with DataTrak	P14MCS	P26MCS	P29MCS	P55MCS	P63MCS	P68MCS
Mounting Type	Floor Standing					
Mounting Number	222276	222276	222276	222276	222276	222276
3/4 in x 6 ft Air Hose	208610	208610	208610	208610	208610	208610
1 in x 6 ft Fluid Hose	115042	244657	244657	244657	244657	244657

## **Pump Packages without DataTrak**

Package Number	24E006	24E007	24E008	24E009	24E010	24E011
Ratio	14:1	26:1	29:1	55:1	63:1	68:1
Pump without DataTrak	P14DCS	P26DCS	P29DCS	P55DCS	P63DCS	P68DCS
Mounting Type	Floor Standing					
Mounting Number	222276	222276	222276	222276	222276	222276
3/4 in x 6 ft Air Hose	208610	208610	208610	208610	208610	208610
1 in x 6 ft Fluid Hose	115042	244657	244657	244657	244657	244657





### Ordering Information

## **RAM Pump Packages with DataTrak**

Package Number	247979	247980	247981
Ratio	14:1	63:1	68:1
RAM System	CM53BA	CM17BA	CM2RBA
3/4 in x 6 ft Air Hose	208610	208610	208610
1 in x 6 ft Fluid Hose	115042	244657	244657

## **RAM Pump Packages without DataTrak**

Package Number	24E780	24E781	24E782
Ratio	14:1	63:1	68:1
RAM System	CM515A	CM155A	CM2L5A
3/4 in x 6 ft Air Hose	208610	208610	208610
1 in x 6 ft Fluid Hose	115042	244657	244657





### Accessory Ordering Information

### **Drum Covers**

	Part Number	Description
	200326	Cover for open-head 400 lb (180 kg) drums
	204574	SD Cover for open-head 70 lb (32 kg) or 120 lb (55 kg)
	24R350	LD Cover for open-head 35 lb (16 kg), 70 lb (32 kg) or 120 lb (55 kg) drums



# **Dyna-Star® Hydraulic Pumps**





# 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

• Grease up to NLGI #2

hnical Specifications		
Fluid Pressure Ratio	5:1	10:1
Pump Number	224912 – 35 lb (16 kg) 224751 – 120 lb (55 kg) 224752 – 400 lb (180 kg)	247540 - 60 lb (27 kg) 247443 - 120 lb (55 kg) 247450 - 400 lb (180 kg)
Applications	Grease Dispensing	Grease Dispensing
Maximum Input Pressure	1,500 psi (102 bar)	600 psi (41 bar)
Maximum Fluid Input Volume	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)
Maximum Output Flow Rate	4 lb/min (1.8 kg)	1.1 lb/min (0.5 kg)
Maximum Recommended CPM	60	60
Maximum Fluid Output Pressure	7,500 psi (517 bar)	7,500 psi (517 bar)
Hydraulic Supply Inlet	3/8 in NPT	3/4 to 16 in JIC (37° Flare)
Hydraulic Return Outlet	3/4 in NPT	3/4 in NPT
Fluid Outlet	1/2 in NPT	1/2 in NPT
Maximum Incoming Fluid Temp.	130°F (54°C)	200°F (93°C)
Wetted Parts	Steel, copper, polyurethane, Buna-N, polyester elastomer	Steel, copper, polyurethane, Buna-N, polyester elastomer
Sound Pressure Level	77 dB(A)	77 dB(A)
Approximate Weight	224912 – 32.5 lb (14.7 kg) 224751 – 37.5 lb (17 kg) 224752 – 42 lb (19.1 kg)	247540 – 41 lb (18.6 kg) 247443 – 43.5 lb (19.7 kg) 247450 – 48 lb (21.8 kg)
Instruction Manual	308156	312350





# **Dyna-Star Hydraulic Pumps**

### Ordering Information

## **Dyna-Star Hydraulic Pumps**

Part Number	Description
224912	5:1 Grease pump for 35 lb (16 kg) pails
224751	5:1 Grease pump for 120 lb (55 kg) drum
224752	5:1 Grease pump for 400 lb (180 kg) drum
247450	10:1 Grease pump for 35 lb (16 kg) pails
247443	10:1 Grease pump for 120 lb (55 kg) drum
247450	10:1 Grease pump for 400 lb (180 kg) drum

### **Accessories**

### **Drum Covers**

	Part Number	Description
	224915	Cover for 35 lb (16 kg) pail
	204574	Cover for 120 lb (55 kg) drum
	200326	Cover for 400 lb (180 kg) drum

### **Follower Plates**

405

Part Number	Description
224916	Follower plate for 35 lb (16 kg)
223700	Follower plate for 120 lb (55 kg)
223701	Follower plate for 400 lb (180 kg)

### **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.

### **Tie-Down Covers**

T SIL	

Part Number	Description
222060*	Dyna-Star, 5:1 tie-down cover for 120 lb (55 kg)
207366**	Dyna-Star, 5:1 tie-down cover for 400 lb (180 kg)

<sup>\*</sup>Use with hold-down kit 222061. \*\*Use with hold-down kit 207361.

# **Viscount® II Pumps**





# Field-Proven, Energy-Efficient

When paired with any of Graco's priming piston pumps, the Viscount II hydraulic air motor offers exceptional cost savings by operating on 20% of the energy used by a pneumatic motor.

## **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.

### **Typical Applications**

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

# High-Efficiency Motor

Uses less hydraulic oil.

### Typical Fluids Handled

• Grease up to NLGI #2

chnical Specifications				
Fluid Pressure Ratio	2.4:1			
Pump Number	222902 - 400 lb (180 kg)			
Applications	Grease Dispensing			
Maximum Input Pressure	1,500 psi (103.5 bar)			
Maximum Fluid Input Volume	12 gpm (45.4 lpm)			
Maximum Output Flow Rate	7.5 gpm (28.5 lpm)			
Maximum Recommended CPM	60			
Maximum Fluid Output Pressure	2,300 psi (159 bar)			
Hydraulic Supply Inlet	3/4 in NPT			
Hydraulic Return Outlet	1 in NPT			
Fluid Outlet	1-1/2 in NPT			
Maximum Incoming Fluid Temp.	130°F (54°C)			
Wetted Parts	Carbon steel; chrome, zinc and electroless nickel plating; 304 and 17-4 PH grades of stainless steel; E52100 alloy steel; ductile iron; acetal; PTFE; ultra-high-molecular weight polyethylene			
Sound Pressure Level	< 70 dB(A)			
Approximate Weight	196 lb (89 kg)			
Instruction Manual	308149			





### Ordering Information

## **Viscount II Pumps**

Part Number	er	Description	
222902 2.4:1 Grease Pump for 400 lb (180 kg) drum		2.4:1 Grease Pump for 400 lb (180 kg) drum	

### **Accessories**

## **Hydraulic Fluid Controls**

Required for each pump



Part Number	Description
236865	Viscount II 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.



# **Manually Operated Grease Pumps**



# Ordering Information

## **Manual Dispense from Bulk Containers**



<sup>\*</sup> Delivers 1/4 oz (0.7 grams) of grease per stroke at pressures to 3,000 psi (207 bar). Can service fittings directly or be used to charge a booster gun for more efficiency at higher pressures.

<sup>\*\*</sup> Fills all three-way loading grease guns equipped with filler fittings.

\*\*\* Dispense kit 203703 can be used for direct greasing applications (must be ordered separately).



# **Graco Dispense Valves and Guns Selection Guide**

### **Grease Valves**

Grease valves							
	Fluid	Туре	Maximum Working Pressure	Maximum Flow Rate	Intended Use	Warranty	Reference Pages
Accu-Shot <sup>™</sup>	NLGI #2	Metered	8,000 psi (552 bar)	2 lb/min 1 kg/min	Indoor/ Outdoor	1 year	140
			(002 541)	i Ng/iiiii	Guldooi		
Pro Shot <sup>™</sup>	Grease up to NLGI #2	Non- Metered	8,000 psi (552 bar)	2 lb/min 1 kg/min	Indoor/ Outdoor	1 year	141
			(652-333)				
Power Shot <sup>™</sup>	Grease up to	Booster	Supply	N/A	Indoor/	1 year	142
	NLGI #2		5,000 psi (345 bar) Output 18,000 psi (1,242 bar)		Outdoor		

### **Grease Guns**

uicase uulis							
	Fluid	Style	Maximum Working Pressure	Loading	Intended Use	Warranty	Reference Pages
Manual	Grease up to NLGI #2	Lever	6,000 psi to 10,000 psi	Cartridge/ bulk fill/	Indoor/ Outdoor	1 year	143
			(414 bar to 690 bar)	loader fill/ suction			
Pneumatic	Grease up to NLGI #2	Pistol	6,000 psi (414 bar)	Bulk fill/ loader fill	Indoor/ Outdoor	1 year	143
	NEGI #Z		(414 bai)	loader IIII	Outdoor		
Booster	Grease up to NLGI #2	Pistol	10,000 psi (690 bar)	Loader fill	Indoor/ Outdoor	1 year	143
	NEGITTZ		(655 bar)		Guldooi		

# **Accu-Shot™ Metered Grease Valve**





### **Typical Applications**

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

### Typical Fluids Handled

• Grease up to NLGI #2

Technical Specifications			
Maximum Working Pressure	5,000 psi (345 bar)		
Metering System	Oval gears		
Accuracy	$\pm$ 3% with grease consistency (grade NLGI) 2/3		
Repeatability (typical)	$\pm$ 1% with grease consistency (grade NLGI) 2/3		
Storage Temperature Range	-4°F to 158°F (-20°C to 170°C)		
Operating Temperature Maximum	95 (%RU)		
Battery	Standard alkaline batteries 2 x 1.5 Volt Size AA		
Battery Life	18 to 24 months (depends on usage)		
Dimensions (without extension)	8.8 in L x 1.8 in W x 4.4 H (22.4 cm L x 4.6 cm W x 11.2 cm H)		
Weight	2.2 lb (1.0 kg)		
Warranty	One year		
Instruction Manual	309454		

### Ordering Information

Part Number	Description	Includes	
233807	U.S. measurement, includes extension and hydraulic coupler	Standard nozzle extension (200389) and 1/4 in NPT inlet	
233933	Metric measurement, includes extension and hydraulic coupler	Statidard flozzie exterision (200369) and 1/4 in NFT init	





# **Pro Shot™ Non-Metered Grease Valve**



### **Typical Applications**

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

#### Typical Fluids Handled

• Grease up to NLGI #2

#### **Technical Specifications** Maximum Working Pressure 8,000 psi (552 bar) Inlet Size 1/4 in or 3/8 in Chrome vanadium, polyurethane, Wetted Parts brass, carbon steel, alloy steel Warranty One year 309032 Instruction Manual

# Ordering Information

	Description		NPT		BSPT		BSPP	
	Description	1/4 in	3/8 in	1/4 in	3/8 in	1/4 in	3/8 in	
1	Non-metered grease valve with standard nozzle extension (200389)	242056	242058	24H400	24H402	24H404	24H406	
1	Bare non-metered grease valve only	242055	242057	24H399	24H401	24H403	24H405	
1	Non-metered grease valve package. Includes Grease Valve (242056), Z-Swivel (202577) and Whip Hose (109148).	224872	-	-	-	-	-	
M	Non-metered grease valve package. Includes Grease Valve (242055), coupler (200325) and Whip Hose (109145).	26C184	-	-	-	-	-	

# **Power-Shot**™ Booster Valve





# Typical Applications

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

### Typical Fluids Handled

• Grease up to NLGI #2

Technical Specifications				
Maximum Input Pressure	5,000 psi (34 MPa, 345 bar)			
Maximum Delivery Pressure	Up to 18,000 psi (124 MPa, 1241 bar)			
Inlet Size	1/8 NPT female			
Wetted Parts	Alloy steel, carbon steel, chrome alloy, copper, leather			
Weight	3 lb (1.4 kg)			
Height	7 in (178 mm)			
Length	11.675 in (296 mm)			
Warranty	One year			
Instruction Manual	306271			

## Ordering Information

Part Number	Description	
202600	1/8 NPT(F) Power Shot booster Valve. Includes nozzle (200389)	

#### **Accessories**

Part Number	Description	
202579 Hose swivel (must be ordered separately)		





# **Heavy-Duty Grease Guns**



# Lever-Action and Pistol-Style Grease Dispensing Guns

Durable design for years of trouble-free use in demanding environments. Reduces downtime and is easy to load – two- or three-way loading capability makes it easy to keep on greasing.



# Ordering Information

	Part Number	Style	Gun Type	Pressure psi (bar)	Loading	Includes		
	112196	Pneumatic	Pistol	6,000 (414)	Bulk fill/ loader fill	Rigid extension and hydraulic coupler		
	203697	Booster	Pistol	10,000 (690)	Loader fill	Rigid extension		
	110218		Lover	6,000 (414)	Cartridge/bulk fill	Rigid extension and hydraulic coupler		
1	110216		Lever –		Manual			Rigid extension, hydraulic coupler and air bleeder valve
	110203	Manual				10,000 (690)	Cartridge/ bulk fill/ loader fill	Rigid extension, hydraulic coupler and air bleeder valve
m	110202					12 in (30.4 cm) flexible extension, hydraulic coupler and air bleeder valve		
H	110201		Suction	_	Suction	12 in (30.4 cm) clear plastic hose		

#### **Accessories**

	Part Number	Description
109145	109145	12 in (30.4 cm) clear plastic hose without coupler
	112255	18 in (45.8 cm) clear plastic hose without coupler



# **Accessories**



# >>> Ordering Information

## **Z-Swivels**



Maximum Working Pressure psi (bar)	Inlet	Outlet	Thread	Part Number
6,500 (450)	1/8 in	1/4 in	NPT	202579
6,500 (450)	1/4 in	1/4 in	NPT	202577
6,500 (450)	3/8 in	3/8 in	NPT	224569
6,000 (414)	1/2 in	1/2 in	NPT	207948
6,500 (450)	1/4 in	1/4 in	BSPT	24H614
6,500 (450)	1/4 in	1/4 in	BSPP	24H615

# **Straight Swivels**



Maximum Working	Ni	Part Number	
Pressure psi (bar)	Inlet	Outlet	Part Number
8,000 (500)	1/8 in	1/8 in	204082
8,000 (500)	1/4 in	1/8 in	204083
8,000 (500)	1/4 in	1/4 in	204084
6,000 (414)	1/2 in	1/2 in	207947
5,000 (345)	3/8 in	1/2 in	214926
5,000 (345)	3/8 in	1/2 in	214946
5,000 (345)	1/2 in	1/2 in	207946

# 360° Swivels



Part Number	Includes		
Fait Number	Fitting	Coupler	
203597	203198	200325	
203198	203198	_	

# **Nozzles**

<b></b>		
Part Number	Description	
200389	Standard nozzle. Includes straight 6 in (15.2 cm), 1/8 NPT(M) extension tube (197471) and tapered nose coupler (200325).	
204072	Swivel nozzle. Includes straight 6 in (15.2 cm), 1/8 NPT(M) extension tube (197471) and tapered nose coupler (200325). Coupler has 360° swivel adapter (203198) for added convenience.	
204897	Swivel nozzle. Includes straight 12 in (30.4 cm), 1/8 NPT(M) extension tube (155836) and tapered nose couple (200325). Coupler has 360° swivel adapter (203198) for added convenience.	
204204*	Flexible 12 in (30.4 cm) hose nozzle. 1/8 NPT(M) includes tapered-nose coupler (200325).	
203504*	Flexible 12 in (30.4 cm) hose nozzle. 1/8 NPT(M) includes tapered-nose coupler (200325) and lock-sleeve connector (203497) for quick connection to any grease nozzle having tapered-nose coupler.	
109145	12 in (30.4 cm) hose nozzle without coupler.	
112255	18 in (45.8 cm) hose nozzle without coupler.	
109148*	30 in (76.2 cm) hose nozzle without coupler, has 1/8 NPT(M) both ends. Use as alternate for rigid nozzle with tapered-nose coupler 200325.	

<sup>\*</sup>Warning: Potential injection hazard. Not for use above 5,000 psi (345 bar).









# Ordering Information

# **Couplers**

Part Number	Description
200325	1/8 NPT(F) inlet standard tapered-nose coupler. Hardened jaws grip grease fittings through wide-sealing angle, but release easily. Maximum working pressure 8,000 psi (551 bar).
202650	1/8 NPT(F) inlet standard straight-nose grease coupler for manual operated grease guns only.  Maximum working pressure 3,000 psi (206 bar).
200020	1/8 NPT(F) inlet standard button-head coupler. Gives fast, positive seal on button-head fittings.
200021	1/8 NPT(F) inlet giant button-head coupler. Gives fast, positive seal on larger button-head fittings.





# **Adapters**

Adapters have lock-sleeve quick-connector; works with any grease nozzle with a tapered-nose coupler.

Part Number	Description
201881	Hydraulic-to-push adapter. Used for U-joints and low-pressure service.
205532	Hydraulic-to-steel needle adapter. Used for flush fittings. 250 psi (17 bar) max. Not for air grease applications or guns.
205582	Hydraulic-to-nylon needle adapter. Used for removable plugs. 250 psi (17 bar) max. Not for air grease applications or guns.
223187	90° hydraulic-to-push adapter (K-car). Refer to instruction manual 306708.
203497	Lock-sleeve connector. 1/8 NPT(F) outlet. Allows for quick connection to tapered-nose coupler. Inlet is standard grease fitting with sleeve to lock connector in place.
236171	Easy-fill valve. For faster loading of Graco hand grease guns with gun loaders. Replaces hydraulic fittings on all grease guns with 1/8 NPT(F).
204929	Grease loader valve. For use with lever-operated, high-volume grease pumps. Permits quick bulk filling of hand-operated grease lever guns equipped with easy-fill valve 236171.
205592	Hydraulic adapter assortment package. Contains needle adapter (205568), plug adapter (205554), push adapter (201881), nylon needle adapter (205582), hydraulic-to-steel needle adapter (205532) and whip hose nozzle connector (203504).





205582





# Tapered Thread Grease Fittings, 10,000 psi (690 bar) (steel; ball check)

Part Number	Shank	Description
100054	9/32	1/8 NPT straight
101277	1-9/32	1/8 NPT straight
100970	9/32	1/8 NPT 30° angle
100834	9/32	1/8 NPT 45° angle
100971	9/32	1/8 NPT 65° angle
100833	9/32	1/8 NPT 90° angle
100848	3/8	1/4 NPT 67° angle
100846	3/16	1/4-28 tapered SAE-LT straight
100847	13/64	1/4-28 tapered SAE-LT 45° angle
101283	3/16	1/4-28 tapered SAE-LT 90° angle
101281	11/32	1/4-28 tapered SAE-LT straight
110702	19/64	1/4-28 tapered SAE-LT 65° angle
100835	12/32	1/4 NPT straight













# **Accessories**



# Ordering Information

# 1/4 in Tapered Thread-Forming Grease Fittings, 10,000 psi (690 bar) (steel; ball check)

Part Number	Shank	Description
110703	13/64	1/4-28 straight
110705	13/64	1/4-28 90° angle

## **Drive-Type Grease Fittings (steel)**

Part Number	Shank	Description
110706	3/32	3/16 drill straight
110709	7/32	3/16 drill 65° angle
110713	1/4	3/16 drill straight without ball check
101312	7/32	3/16 drill straight with ball check
110710	1/4	5/16 drill straight with ball check
101287	17/64	1/4 drill straight without ball check



## **Standard Button-Head Grease Fitting (steel)**

1/4 in Tapered Thread Grease Fittings (steel; ball check)

Part Number	Shank	Description
100837	7/16	1/4 NPT straight
101297	33/64	3/8 NPT straight
110711	35/64	1/2 NPT straight



# **Giant Button-Head Grease Fitting (steel)**

Part Number	Shank	Description
110712	9/16	3/8 NPT straight
100854	1/2	1/4 NPT straight



# **Easy-Outs**

Part Number	Description
101604	3/8 NPT straight
101605	1/4 NPT straight



## **Grease Accessory Packages**

Convenient storage box contains the following threaded fittings in the quantities listed:

Part Number	Package Includes			
	Quantity	Grease Fitting No.	Shank	Description
	30	100054	9/32	1/8 NPT straight
	10	100970	9/32	1/8 NPT 30° angle
202654	10	100833	9/32	1/8 NPT 90° angle
	20	100846	3/16	1/4-28 straight
	10	100847	13/64	1/4-28 45° angle





# **Graco Diesel Exhaust Fluid (DEF) Systems**

# Flexible Installation – Solutions for Every Application

Choose from configured packages or build a custom DEF system specific to your application with individual pumps and components. From the economical hand pumps to the high-performance electric or air-operated double diaphragm (AODD) packages, Graco has you covered. Every solution is designed with the highest-quality components for trouble-free operation.







# **How to Choose Your Graco DEF Solution:**



# **Identify your power supply**

Choose the pump that's right for your application. Choose the lightweight and reliable manual hand pump for small applications. The LD Blue electric pumps are recommended for applications up to 50 ft, or upgrade to the SD Blue AODD pump for longer applications, up to 200 ft.







# **Determine your container size**\*

Whether dispensing from a drum or a tote container, Graco has the package that fits your needs. Fifty-five gallon drums are ideal for one or two truck operations, and for larger fleets choose 275 or 330 gallon IBC totes.

\*Tote and drum not for sale from Graco



# **Choose your accessories**

Graco offers a full line of high-quality DEF accessories to complement your installation. Select from automatic or manual dispense nozzles, closed-system couplers, in-line meters, hose reels, mounting brackets, fittings, and dispense and suction hoses.





# **LD Blue Electric Pumps**

# A Reliable Industrial Pump with Self-Priming Capabilities

Whether you own a small garage, large dealership or heavy equipment maintenance facility, Graco has a complete line of diesel exhaust fluid (DEF) products for every application. Our electric, pneumatic or manual products are engineered specifically for the advanced needs of DEF fluid and are designed to minimize downtime and dispense materials quickly without compromising chemical integrity.



## **Built-In Safety and Reliability**

Automatic shut-off timer (6.5 min) incorporated into the 120V pump. Prevents the pump from running past the duty cycle and maximizes the life of the pump.

# Stay Up and Running Longer

Reduce downtime and get more work done with the LD Blue systems - up to twice the life of competitive pumps.



Features a self-priming membrane pump that has no need for a dynamic seal, reducing the need for maintenance.

#### **Typical Applications**

- · Automotive and heavy-duty dealerships
- Agriculture
- · Service and fast lube centers
- · Fleet service facilities

# Typical Fluids Handled

· Diesel exhaust fluid

ec	echnical Specifications					
		120V	12V			
	Maximum Flow Rate	9 gpm	9.5 gpm			
	Maximum Fluid Pressure	50 psi	50 psi			
	RPM	1,750	2,600			
	Watts	500	260			
	Voltage	120V / 60hz	12V			
	Maximum Amperage	4.5A	22A			
	Duty Cycle	20 min ON/OFF	20 min ON/OFF			
	Listings	CRU US	CE			

### Ordering Information

# **Pump Only**

Part Number	Description
127642	120V AC electric pump, 3/4 in barbed hose tail
127643	12V DC electric pump, 3/4 in barbed hose tail



# **LD Blue Electric Pump Packages**





**Ordering Information** 

# **LD Blue Electric Pump Packages**





Package 24V656 installed on 55 gallon drum (not included in package).

Package 24V646 installed on tote (not included in package).



# **Superior-Performing AODD Pump Capable of Higher Output Over Longer Runs**

Whether for a small garage, large dealership or heavy equipment maintenance facility, our pneumatic pumps are engineered specifically for the advanced needs of DE fluid and are designed to minimize downtime and dispense materials quickly without compromising chemical integrity.



Stall-free, low-pulsation air valve provides smooth and rapid changeover for increased efficiency and minimizes downtime.

### Robust Design

Bolt-through fluid cover design eliminates leaks and provides better safety and more reliability.

### **Versatility**

The Husky 515 pump delivers up to 15 gpm and works on as little as 30 psi.

# Rugged Construction

Resists corrosion for reliable performance and long life.

#### **Typical Applications**

- Automotive and heavy-duty dealerships
- Mining
- · Service and fast lube centers
- · Fleet service facilities
- In-plant
- · Lube trucks

### Typical Fluids Handled

· Diesel exhaust fluid

#### **Technical Specifications** Maximum Flow Rate 15 gpm Maximum Fluid Pressure 50 psi Air Operating Range 30-50 psi Air Inlet 1/4 in NPT(F) 3/4 in BSPP(F) Pump Inlet Hose Inlet 3/4 in BSPP(F) Pump Outlet 3/4 in BSPP(F) Maximum Air Consumption 28 scfm

# Ordering Information

Part Number	Description	Inlet/Outlet
24G745	SD Blue Husky 515 pump	3/4 in BSPP



# **SD Blue Pump Packages**





# **SD Blue Pump Tote Packages**









	De	luxe	Star	ndard
Package Number	24F531	24F878	24V677	24V678
Mount Type	Tote	Tote	Tote	Tote
Type of Nozzle	Automatic	Automatic	Automatic	Automatic
Air-Operated Pump	24G745	24G745	24G745	24G745
Mounting Bracket	24F870	24F870	24W186	24W186
Valve/Nozzle	24F529	24F529	127649	127649
Meter	24G738	-	127663	-
Drum Quick Connect Kit	24F532	24F532	-	-
Air Regulator and Gauge	110147	110147	-	-
Air Shut-Off Ball Valve, Vented	110223	110223	_	-
50 psi Air Safety Valve	124963	124963	116306	116306
Dispense Hose	124603	124603	24W161	24W161
Dispense Hose Length	20 ft	20 ft	20 ft	20 ft
Suction Hose	124581	124581	24W149	24W149
Suction Hose Length	6 ft	6 ft	5 ft	5 ft
Fittings (2)	3/4 in BSPP(MBE)	3/4 in BSPP(MBE)	SST Clamps	SST Clamps

Package 24V677 installed on a 275 gallon tote (tote and coupler not included in package).



# **SD Blue Pump Packages**

# >>> Ordering Information

# **SD Blue Pump Drum Packages**









	Deluxe		Standard	
Package Number	24F947	24M499	24V679	24V686
Mount Type	Drum	Drum	Drum	Drum
Type of Nozzle	Manual	Automatic	Manual	Automatic
Air-Operated Pump	24G745	24G745	24G745	24G745
Mounting Bracket	24F679	24F679	24W185	24W185
Valve/Nozzle	125078	24F529	125078	127649
Meter	-	24H293	-	127663
Drum Quick Connect Kit	24F532	24F532	_	-
Air Regulator and Gauge	110147	110147	_	_
Air Shut-Off Ball Valve, Vented	110223	110223	_	-
50 psi Air Safety Valve	124963	124963	116306	116306
Dispense Hose	125079	124671	24W154	24W154
Dispense Hose Length	12 ft	12 ft	12 ft	12 ft
Suction Hose	124875	124875	24W148	24W148
Suction Hose Length	2 ft	2 ft	2 ft	2 ft
Fittings (2)	3/4 in BSPP(M)	3/4 in BSPP(M)	SST Clamps	SST Clamps

Package 24V686 installed on 55 gallon drum (not included in package).



# **LD Blue Manual Pumps**







# **Features and Benefits**

- Lightweight, reliable and cost-effective solution for dispensing DEF from 55 gallon drums
- · Quick drum installation and change-out with integrated 2 inch bung adapter
- Fast delivery capable of 11 oz per stroke
- Adjustable telescoping downtube

## **Typical Applications**

- Automotive and heavy-duty dealerships
- Agriculture
- · Service and fast lube centers
- Fleet service facilities
- In-plant

## Typical Fluids Handled

· Diesel exhaust fluid

### **Technical Specifications**

Maximum Flow Rate 11 oz per stroke

# Ordering Information

Part Number Description		Description
127647 DEF hand pump with drum-length adjustable downtube (125479)		DEF hand pump with drum-length adjustable downtube (125479)
24G636 DEF hand pump (127647), 6 ft dispense hose with ball valve (125478), drum length adjustable downtube (125478)		DEF hand pump (127647), 6 ft dispense hose with ball valve (125478), drum length adjustable downtube (125479)
127875 DEF hand pump (127647), 6 ft dispense hose with ball valve (125478), drum length adjustable downtube (125479), l		DEF hand pump (127647), 6 ft dispense hose with ball valve (125478), drum length adjustable downtube (125479), LD manual nozzle (125078)

### **Accessories**

Part Number Description		Description
125479 Drum length adjustable downtube for hand pump 125478 6 ft dispense hose with ball valve		Drum length adjustable downtube for hand pump
		6 ft dispense hose with ball valve



# **SDI15 In-Line Meter**



## **Typical Applications**

- Automotive and heavy-duty dealerships
- Mining
- · Service and fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks

## Typical Fluids Handled

· Diesel exhaust fluid

# **Features and Benefits**

- Tracks totals in two modes reset for periodic history and non-reset for meter life
- Durable design for rugged use
- Easy to use dispenses pints, quarts, liters or gallons
- 0.5 gpm to 15 gpm flow rate
- 1500 psi maximum pressure, 1/2 in NPT inlet

echnical Specifications		
Flow Range	0.5 gpm to 15 gpm (1.9 lpm to 57 lpm)	
Maximum Working Pressure	1,500 psi (103 bar)	
Units of Measure	Quarts, pints, gallons, liters (factory-set to quarts)	
Weight	1.8 lb (0.8 kg)	
Accuracy	± 2.5%	
Inlet/Outlet	1/2 in BSPP	
Maximum Totalizer	99,999	
Maximum Recorded Dispense	999.99	
Operating Temperature Range	-4°F to 122°F (-20°C to 50°C)	
Storage Temperature Range	-13°F to 122°F (-25°C to 50°C)	
Outdoor Use	No	
Battery	2 AA alkaline	
Wetted Parts	Stainless steel, PBT (polybutylene terephthalate), nickel, fluoroelastomer	
Meter Pressure Loss	22 psi (1.5 bar) @ 14 gpm (53 lpm)	
Instruction Manual	313048	

# Ordering Information

Part Number	Description
24G738	SDI15 DEF meter, 1/2 in BSPP(F/F), 1,500 psi, 0.5 to 15 gpm
24H293	SDI15 meter kit with fittings for SST auto nozzle



# **LD Blue In-Line Meter**





# **Typical Applications**

- Automotive and heavy-duty dealerships
- · Service and fast lube centers
- · Fleet service facilities
- In-plant

## Typical Fluids Handled

Diesel exhaust fluid

# **Features and Benefits**

- Easy to install use in-line or at the end of the dispense hose
- Impulse signals single channel or reed switch
- 1.3 gpm to 26.4 gpm flow rate
- Rotatable display 4 positions
- 1 in BSPP(M) inlet and outlet. Includes 1 in BSPP(F) coupler.

Technical Specifications			
	Flow Range	1.3 gpm to 26.4 gpm (4.9 lpm to 100 lpm)	
	Maximum Working Pressure	145 psi (10 bar)	
	Units of Measure	Quarts, pints, gallons, liters (factory-set to quarts)	
	Weight	0.6 lb (0.25 kg)	
	Accuracy	± 1.0%	
	Inlet/Outlet	1 in BSPP(M)	
	Maximum Totalizer	99,999	
	Maximum Recorded Dispense	999.99	
	Operating Temperature Range	14°F to 122°F (-10°C to 50°C)	
	Storage Temperature Range	-4°F to 158°F (-20°C to 70°C)	
	Outdoor Use	No	
	Battery	2AAA alkaline	
	Wetted Parts	SST, plastic, rubber	
	Meter Pressure Loss	5 psi (0.3 bar) @ 26.4 gpm (100 lpm)	
	Instruction Manual	333467	

# Ordering Information

Part Number	Description
127663 LD digital in-line turbine meter, LCD display	
127800	Adapter – SD auto nozzle connection to LD meter



# **LD Blue Automatic Nozzles**



# **Features and Benefits**

- Easy break-away system for low-cost repairs if the spout becomes detached
- Choose with or without built-in meter
- 4 gpm to12 gpm flow rate
- 50 psi maximum pressure
- 3/4 in BSPP inlet to transform nozzle into optional mis-filling system to prevent mis-fills
- Stainless steel spout

Technical Specifications		
	Automatic Shut-Off Nozzle	Automatic Shut-Off Nozzle with Meter
Flow Range	4 gpm to 12 gpm (15 lpm to 45 lpm)	4 gpm to 12 gpm (15 lpm to 45 lpm)
Maximum Working Pressure	50 psi (3.5 bar)	50 psi (3.5 bar)
Units of Measure	_	Quarts, pints, gallons, liters (factory-set to quarts)
Weight	1.3 lb (0.6 kg)	1.8 lb (0.8 kg)
Accuracy		± 1%
Inlet	1 in BSP	1 in BSP
Maximum Totalizer		999,999
Maximum Recorded Dispense		99,999
Operating Temperature Range	-4°F to 130°F (-20°C to 55°C)	14°F to 122°F (-10°C to 50°C)
Storage Temperature Range	-40°F to 140°F (-40°C to 60°C)	-4°F to 158°F (-20°C to 70°C)
Outdoor Use	Yes	No
Battery		2AA alkaline
Wetted Parts	SST, rubber, plastic	SST, rubber, plastic
Meter Pressure Loss	13 psi (0.9 bar) @ 9.3 gpm (35 lpm)	13 psi (0.9 bar) @ 9.3 gpm (35 lpm)
Instruction Manual	333468	333469

# **Typical Applications**

- Automotive and heavy-duty dealerships
- · Service and fast lube centers
- · Fleet service facilities
- In-plant

## Typical Fluids Handled

· Diesel exhaust fluid

# Ordering Information

Part Number	Description
127649	LD automatic nozzle with stainless steel breakaway spout
127650	LD automatic nozzle with built-in electronic turbine meter, with stainless steel breakaway spout

#### **Accessories**

	Part Number	Description
	127651	Spout replacement kit for LD nozzles 127649 and 127650
	127652	Magnetic mis-fill spout kit for LD automatic nozzles
Co	127654	Magnetic adapter for mis-fill kit







## **Features and Benefits**

- Heavy-duty design
- Automatic shut-off valve with stainless steel nozzle
- 11 gpm flow rate
- 50 psi maximum pressure
- 3/4 in BSPP inlet

### **Typical Applications**

- · Automotive and heavy-duty dealerships
- Mining
- · Service and fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks

### Typical Fluids Handled

· Diesel exhaust fluid

# Ordering Information

Part Number	Description
124398	SD automatic shut-off SST nozzle without swivel, 3/4 in BSPP(F)
24F529	SD automatic shut-off SST nozzle with swivel, 3/4 in BSPP(F)
127655	SD automatic shut-off SST nozzle, 3/4 in hose barb

# **LD Blue Manual Nozzle**

## **Typical Applications**

- · Automotive and heavy-duty dealerships
- Service and fast lube centers
- · Fleet service facilities
- In-plant

### Typical Fluids Handled

Diesel exhaust fluid

# **Features and Benefits**

- Manual shut-off valve with stainless steel nozzle
- · High 20 gpm flow rate
- 50 psi maximum pressure
- 3/4 in BSPP inlet
- Lightweight under 1 lb



# Ordering Information

Part Number	Description
125078	LD manual DEF nozzle with SST spout



# **XD 30 DEF Hose Reels**



# **Features and Benefits**

- For use with SD and LD pumps (LD pump with manual nozzle only)
- · Stainless steel fluid section with open porting ensures high fluid flow with minimal pressure loss
- Flexible positioning of guide arm for mounting on bench, ceiling, wall, tote or utility truck
- 50 psi maximum pressure
- 3/4 in x 50 ft inlet hose with 3/4 in BSPP(M) swivel connection to provide leak-free connection

## **Typical Applications**

- Automotive and heavy-duty dealerships
- Mining
- · Service and fast lube centers
- · Fleet service facilities
- In-plant
- Lube trucks

# Typical Fluids Handled

· Diesel exhaust fluid

Technical Specifications		
Operating Temperature Range	e 12°F to 140°F (-11°C to 60°C)	
Maximum Working Pressure	50 psi (3.5 bar)	
Wetted Parts (Bare Reel Only)	Zinc plated steel, polyurethane, steel	
Weight (Without hose)	98 lb (44.5 kg)	
Sound Pressure Level	85.8 dB (A)	
Sound Power Level	94.9 dB (A)	
Instruction Manual	3A0138	

# Ordering Information

### **Hose Reels**

Part Number	Description
HSDD5A	XD 30 DEF hose reel, 3/4 in x 50 ft, white, BSPP
HSDD5B	XD 30 DEF hose reel, 3/4 in x 50 ft, blue, BSPP
HSDD5F	XD 30 DEF hose reel, 3/4 in x 50 ft, yellow, BSPP
HSDDDA	XD 30 DEF hose reel, bare, white, BSPP
HSDDDB	XD 30 DEF hose reel, bare, blue, BSPP
HSDDDF	XD 30 DEF hose reel, bare, yellow, BSPP

#### **Hose Reel Inlet Kits**

A hose inlet kit is required when ordering an XD reel.

Part Number	Description
24W250	2 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow.
24W251	6 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow.
124875	2 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose)
124581	6 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose)



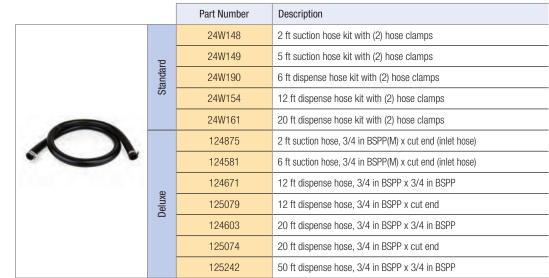
## Ordering Information

## **Mounting Brackets**



Part Number	Description
24F870	AODD tote/wall mounting bracket with nozzle holder
24F679	AODD drum mounting bracket with nozzle holder
124541	AODD nozzle bath holder

## **Dispense and Suction Hoses**



## **Pump Handle**

Diesel Exhaust Fluid (DEF) Systems



Part Number	Description
127646	Black handle for 12V DC pump



# >>> Ordering Information

# **Fittings**

	Part Number	Description
	127656	1 in BSP(F) elbow fitting, black
	127657	1 in BSP(F) x 3/4 in barb hose tail, black
66	127720	1 in BSP(F) x 1 in BSP(F) linear socket, black
	127804	3/4 in x 1 in BSPP(F) swivel fitting with seals
	127805	1 in BSPP(F) x 1 in BSPP(F) coupler
	127806	1 in BSPP(M/F) swivel, white
	127815	3/4 in BSP x 3/4 in barb SST swivel hose tail
	127823	1 in BSP x 3/4 in barb elbow, white
	116306	1/4 in NPT, 50 psi air safety valve for Standard AODD pump packages
	124963	1/8 in NPT, 50 psi air safety valve for Deluxe AODD pump packages
	24F524	3/4 in BSPP(M) x 3/4 in BSPP(F) SST swivel

# **Closed-System Coupler Accessories**



## Ordering Information

Maintaining fluid purity is essential to the longevity of your equipment and maintaining selective catalytic reduction (SCR) engines. With a closed-system design you can minimize fluid contamination and prevent spills. Choose from a variety of industry-accepted closed-system inlet kits to best suit your needs.

#### Colder

DrumQuick® PRO Quick Connect Coupler System. Economical polypropylene assembly can withstand thousands of quick and fast connections.

Part Number	Description
24F532	Colder closed-system coupler kit – includes drum coupler (124548), drum insert (124549) and downtube (124550)
124548	Colder closed-system drum coupler
124549	Colder closed-system drum insert
125014	Colder closed-system drum insert with buttress thread
124550	Colder closed-system 47 in downtube

DrumQuick® is a registered trademark of Colder Products Company.



# **Closed-System Coupler Accessories**

# Ordering Information

#### **Micro Matic**

Reusable Stainless Valve (RSV) is ideal for multi-use applications and is simple to integrate with drums, totes and custom packages.

Economic Plastic Valve (EPV) is designed for one-way, single-use applications. Engineered for use when operations require the container package to be used once, emptied

and recycled.			
	Part Number	Description	
	17C907	Micro Matic EPV dispense coupler, 3A orange, 3/4 in barbed outlet, EPDM seals	
	127634	Micro Matic EPV container valve, 3A orange, 2.5 in x 5 buttress, EPDM Seals	
	127793	Micro Matic EPV downtube for 55 gal drum	
	127794	Micro Matic EPV center downtube for 275 gal IBC tote	
	127635	Micro Matic EPV center downtube for 330 gal IBC tote	
	17C908	Micro Matic RSV dispense coupler, 3/4 in barbed outlet, 4 pin, stainless steel	
E	127637	Micro Matic RSV container valve, 2.5 in x 5 in, 4 cam, stainless steel valve, EPDM seals	
	127795	Micro Matic RSV downtube for 55 gal drum	
8	127796	Micro Matic RSV center downtube for 275 gal IBC tote	
8	127639	Micro Matic RSV center downtube for 330 gal IBC tote	
	127640	Micro Matic RSV fill coupler, 1 in NPT(M) inlet x 1/4 in NPT(F) outlet, 4 pin, stainless steel	

 $\mathsf{EPV}^{^{\mathsf{TM}}}$  is a trademark of Micro Matic USA, Inc.



# **Closed-System Coupler Accessories**

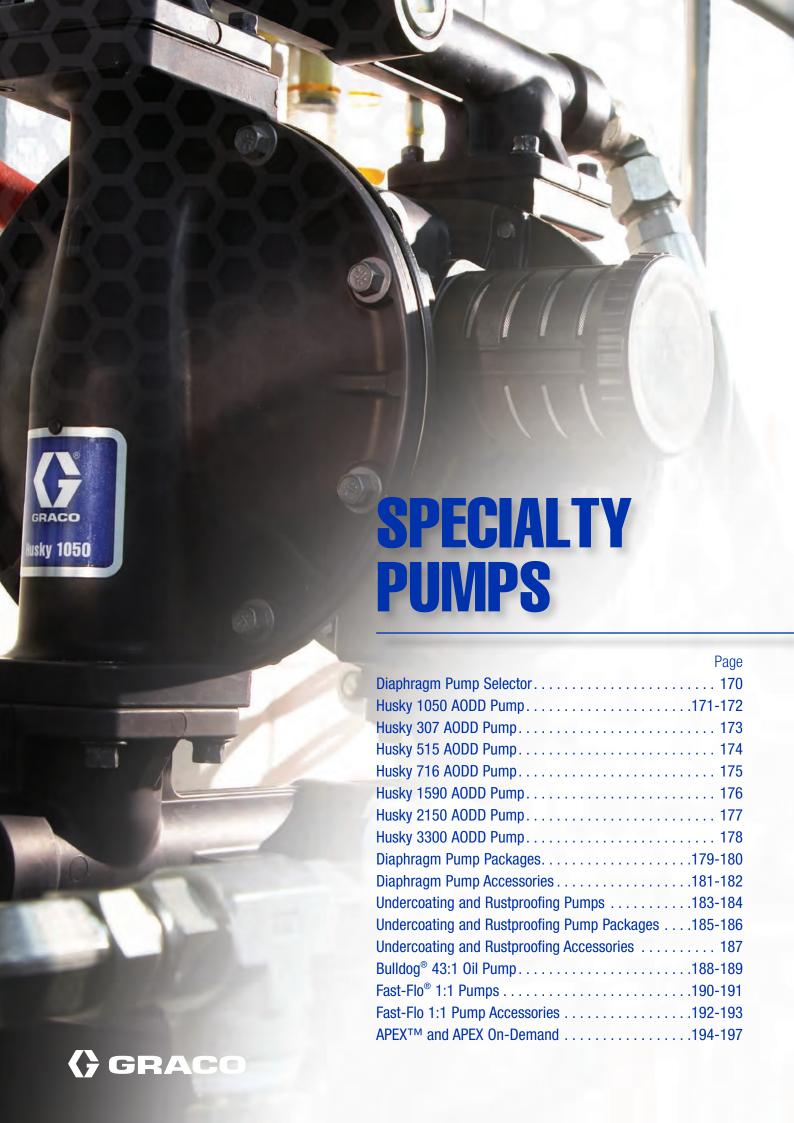


# Ordering Information

# **Micro Matic Packages**

Includes coupler, valve and downtube.

 Part Number	Description
24W142	Micro Matic EPV suction package – coupler (17C907), container valve (127634), 55 gal downtube (127793)
24W141	Micro Matic EPV suction package – coupler (17C907), container valve (127634), 275 gal downtube (127794)
24W140	Micro Matic EPV suction package – coupler (17C907), container valve (127634), 330 gal downtube (127635)
24W145	Micro Matic RSV suction package – coupler (17C908), container valve (127637), 55 gal downtube (127795)
24W144	Micro Matic RSV suction package – coupler (17C908), container valve (127637), 275 gal downtube (127796)
24W143	Micro Matic RSV suction package – coupler (17C908), container valve (127637), 330 gal downtube (127639)



# **Diaphragm Pump Selector**











# **Air-Operated Double- Diaphragm Transfer Pumps**

















# **Husky 1050 AODD Pump**

# Efficiency, Performance and Best-in-Class Engineering

Husky pneumatic double-diaphragm pumps feature a stall-free, low-pulsation air valve, which provides a smooth and rapid changeover. Typical applications include oil transfer and evacuation, fuel dispense and transfer, windshield wash solution dispense, and water and anti-freeze dispense. Some models UL-approved for use in pumping gasoline and gasoline/alcohol blends up to 10% ethanol, diesel fuel, fuel oil and lubricating oil.



#### Modular Air Valve

Stall-free, low-pulsation operation provides smooth and rapid changeover

#### One-Piece Center Section

Eliminates air leaks for more efficient operation

# Longer Diaphragm Life

Up to 5x longer diaphragm life for less maintenance and downtime

### Four-Bolt Joint Design

Bolted design provides even sealing pressure for leak-free operation

#### Multiple Ports

Increased number of ports for installation flexibility

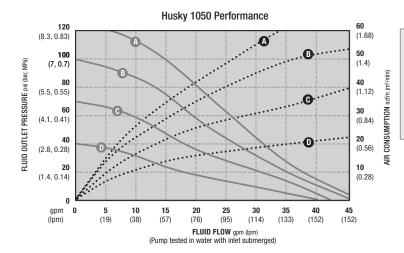
### **Typical Applications**

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

#### **Typical Fluids Handled**

- Oil
- Fuel
- Water
- Anti-freeze
- Washer fluid

### **Pump Performance**



(A) = at 125 psi (8.3 bar, 0.83 MPa)

= at 70 psi (4.8 bar, 0.48 MPa)

**B** = at 100 psi (7 bar, 0.7 MPa)

(D) = at 40 psi (2.8 bar, 0.28 MPa)

Air Consumption • • • • •

LEGEND

Fluid Pressure

# **Husky 1050 AODD Pump**











Maximum fluid working pressure	
Transfer Pump	100 psi (6.9 bar, 0.69 MPa)
Fuel Dispense Pump	50 psi (3.5 bar, 0.35 MPa)
Air pressure operating range	
Transfer Pump	20 psi to 100 psi (1.4 bar to 6.9 bar, 0.14 MPa to 0.69 MP
Fuel Dispense Pump	0 psi to 50 psi (1.4 bar to 3.5 bar, 0.14 MPa to 0.35 MPa)
Air consumption at 70 psi (0.48 MPa, 4.8 bar), 20 gpm (76 lpm)	25 scfm
Air consumption at 50 psi (0.35 MPa, 3.5 bar), full flow	25 scfm
Fluid displacement per cycle	0.17 gal (0.64 l)
Maximum values with water as media under submerged inlet conditions at ambient temperature:	
Maximum air consumption	64 scfm
Maximum free-flow delivery	
Transfer Pump	50 gpm (189 lpm)
Fuel Dispense Pump	38 gpm (144 lpm)
Maximum pump speed	
Transfer Pump	275 cpm
Fuel Dispense Pump	210 cpm
Maximum suction lift (varies widely based on ball/seat selection and wear, operating speed, material properties and other variables)	16 ft (4.9 m) dry, 29 ft (8.8 m) wet
Maximum-size pumpable solids	1/8 in (3.2 mm)
Recommended cycle rate for continuous use	93 cpm to 140 cpm
Recommended cycle rate for circulation systems	20 cpm
Sound Power*	
at 70 psi (0.48 MPa, 4.8 bar) and 50 cpm	78 dB(A)
at 100 psi (0.7 MPa, 7.0 bar) and full flow	90 dB(A)
Sound Pressure**	
at 70 psi (0.48 MPa, 4.8 bar) and 50 cpm	84 dB(A)
at 100 psi (0.7 MPa, 7.0 bar) and full flow	96 dB(A)
Operating temperature range	10°F to 150°F (-12°C to 65°C)
Air inlet size	1/2 in NPT(F)
Fluid inlet size	1 in NPT(F)
Fluid outlet size	1 in NPT(F)
Weight	23 lb (10.5 kg)
Wetted parts	Aluminium, TPC-ET, acetal, PTFE, Buna-N
Non-wetted external parts	Aluminium, coated carbon steel
Instruction manual	313597

<sup>\*</sup>Sound power measured per ISO-9614-2.

# Ordering Information

# **Husky 1050 AODD Pumps**

Part Number	Description	Maximum Fluid Working Pressure	Fluids Handled
647016	Husky 1050 Aluminium Pump – 1 in, Aluminium/TPE	100 psi (6.9 bar)	Water / anti-freeze / fuel transfer
647731	Husky 1050 Aluminium Pump – 1 in, Aluminium/Buna-N	100 psi (6.9 bar)	Oil evacuation / oil transfer
647648	Husky 1050 Aluminium Pump – 1 in, Aluminium/TPE	50 psi (3.5 bar)	Fuel dispense



<sup>\*\*</sup>Sound pressure was tested 3.28 ft (1 m) from equipment.











## **Husky 307 AODD Pump**

- 3/8 in fluid connections
- Fluid delivery up to 7 gpm (26.5 lpm)
- Operate as low as 20 psi up to 100 psi for max flow
- Maximum working pressure of 100 psi for long line runs
- End porting available
- High-efficiency air valve operates at maximum of 6 scfm
- Groundable to reduce risk of static and electric shock

chnical Specifications	
Maximum fluid working pressure	100 psi (6.9 bar, 0.69 MPa)
Maximum free-flow delivery*	7.0 gpm (26.5 lpm)
Maximum pump speed	330 cpm
Fluid displacement per cycle**	0.02 gal (0.076 l)
Maximum suction lift	12 ft (3.7 m) dry
Maximum-size pumpable solids	0.06 in (1.5 mm)
Maximum ambient operating temperature***	180°F (82.2°C)
Maximum diaphragm operating temperature***	150°F (65.6°C)
Typical sound level at 50 psi (3.5 bar, 0.35 MPa) air @ 50 cpm	75 dB(A)
Maximum air consumption	6 scfm (0.17 m³/min)
Air pressure operating range	20 psi to 100 psi (1.4 bar to 6.9 bar, 0.14 MPa to 0.69 MPa)
Air inlet size	1/4 NPT(F) or BSPT(F)
Fluid inlet size	3/8 NPT(F)
Fluid outlet size	3/8 NPT(F)
Weight	5.2 lb (2.4 kg)
Wetted parts	Acetal with stainless steel fibers, PTFE
Instruction manual	308553
+51	1.4401.1

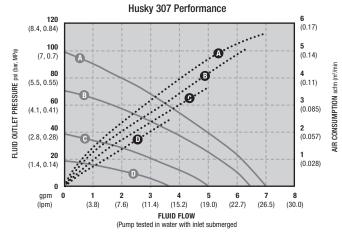
**Husky 307 AODD Pump** 

# Ordering Information

# **Husky 307 AODD Pump**

Part Number	Description
D31255	Husky 307 Acetal Pump – 3/8 in, Acetal/TPE

### **Pump Performance**



	AIR PRESSURE		
l	(A) = at 100 psi (7 bar, 0.7 MPa)		
l	<b>B</b> = at 70 psi (4.8 bar, 0.48 MPa)		
l	(C) = at 40 psi (2.8 bar, 0.28 MPa)		
l	(1.4 bar, 0.14 MPa)		
	LEGEND		
	Air Consumption • • • • •		
I	Fluid Pressure ———		

<sup>\*</sup>Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

# **Husky 515 AODD Pump**













## **Husky 515 AODD Pump**

- 1/2 in fluid connections
- Fluid delivery up to 15 gpm (56.7 lpm)
- Operate as low as 30 psi up to 100 psi for max flow
- Maximum working pressure of 100 psi for long line runs
- Center and end porting options available
- High-efficiency air valve operates at maximum of 28 scfm
- Groundable to reduce risk of static and electric shock

echnical Specifications			
Maximum fluid working pressure	100 psi (6.9 bar, 0.69 MPa)		
Maximum free-flow delivery*	15 gpm (57 l/min)		
Maximum pump speed	400 cpm		
Fluid displacement per cycle**	0.04 gal (0.15 l)		
Maximum suction lift	15 ft (4.5 m) dry, 25 ft (7.6 m) wet		
Maximum-size pumpable solids	3/32 in (2.5 mm)		
Maximum ambient operating temperature***	180°F (82.2°C)		
Maximum diaphragm operating temperature***	180°F (82.2°C)		
Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 50 cpm	77 dB(A)		
Maximum air consumption	28 scfm (0.672 m³/min)		
Air pressure operating range	30 psi to 100 psi (2.1 bar to 6.9 bar, 0.21 MPa to 0.69 MPa)		
Air inlet size	1/4 NPT(F)		
Fluid inlet size	3/4 in NPT(F)		
Fluid outlet size	1/2 and 3/4 in NPT(F)		
Weight	7.8 lb (3.5 kg)		
Wetted parts	Groundable acetal, Buna-N, PTFE		
Instruction manual	309204		
*Flow rates are with muffler and do not vany based or discharges and do			

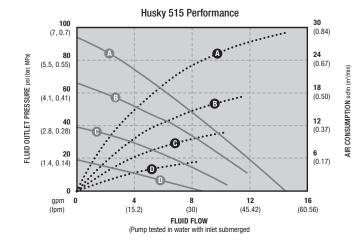
<sup>\*</sup>Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

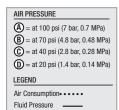
# Ordering Information

## **Husky 515 AODD Pump**

Part Number	Description
243669	Husky 515 Acetal Split Inlet – 3/4 in, Acetal/Buna Dual Inlet

### **Pump Performance**













# **Husky 716 AODD Pump**



# **Husky 716 AODD Pump**

- 3/4 in fluid connections
- Fluid delivery up to 16 gpm (60.6 lpm)
- Operate as low as 30 psi up to 100 psi for max flow
- Maximum working pressure of 100 psi for long line runs
- · Center and end porting options available
- High-efficiency air valve operates at maximum of 28 scfm
- Groundable to reduce risk of static and electric shock

hnical Specifications	
Maximum fluid working pressure	100 psi (6.9 bar, 0.69 MPa)
Maximum free-flow delivery*	16 gpm (61 l/min)
Maximum pump speed	400 cpm
Fluid displacement per cycle**	0.04 gal (0.15 l)
Maximum suction lift	15 ft (4.5 m) dry, 25 ft (7.6 m) wet
Maximum-size pumpable solids	3/32 in (2.5 mm)
Maximum ambient operating temperature***	180°F (82.2°C)
Maximum diaphragm operating temperature***	180°F (82.2°C)
Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 50 cpm	77 dB(A)
Maximum air consumption	28 scfm (0.672 m³/min)
Air pressure operating range	25 psi to 100 psi (1.8 bar to 6.9 bar, 0.18 MPa to 0.69 MPa)
Air inlet size	1/4 NPT(F)
Fluid inlet size	3/4 in NPT(F)
Fluid outlet size	3/4 in NPT(F)
Weight	8.5 lb (3.9 kg)
Wetted parts	Buna-N, acetal, aluminium, stainless steel, PTFE, zinc-plated steel
Instruction manual	308573
*Flow rates are with muffler and do not vary based on diaphragm materi	al **Displacement per cycle may yary hased on suction

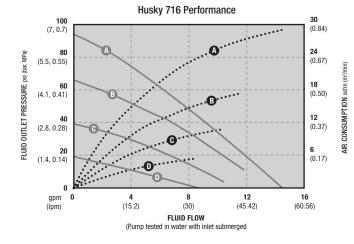
<sup>\*</sup>Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

# Ordering Information

# **Husky 716 AODD Pump**

		-
	Part Number	Description
	241906	Husky 716 Aluminium – 3/4 in, Aluminium/Buna-N

### **Pump Performance**





# **Husky 1590 AODD Pump**











## **Husky 1590 AODD Pump**

- 1-1/2 in fluid connections
- Fluid delivery up to 90 gpm (340.7 lpm)
- Operate as low as 20 psi up to 120 psi for max flow
- Maximum working pressure of 120 psi for long line runs
- End porting available
- High-efficiency air valve operates at maximum of 125 scfm
- · Groundable to reduce risk of static and electric shock

Technical Specifications			
Maximum fluid working pressure	120 psi (8.4 bar, 0.84 MPa)		
Maximum free-flow delivery*	100 gpm (378.5 l/min)		
Maximum pump speed	200 cpm		
Fluid displacement per cycle**	0.5 gal (1.96 l)		
Maximum suction lift	20 ft (6.1 m) dry		
Maximum-size pumpable solids	0.19 in (4.8 mm)		
Maximum ambient operating temperature***	150°F (65.5°C)		
Maximum diaphragm operating temperature***	150°F (65.5°C)		
Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 125 cpm	77 dB(A)		
Maximum air consumption	125 scfm (3.5 m³/min)		
Air pressure operating range	20 psi to 100 psi (1.4 bar to 6.9 bar, 0.14 MPa to 0.69 MPa)		
Air inlet size	1/2 NPT(F)		
Fluid inlet size	1-1/2 NPT(F) or BSPT(F)		
Fluid outlet size	1-1/2 NPT(F) or BSPT(F)		
Weight	33.5 lb (15.2 kg)		
Wetted parts	Acetal, aluminium, TPE, PTFE		
Instruction manual	308441		
*FI	-1 ++D'1		

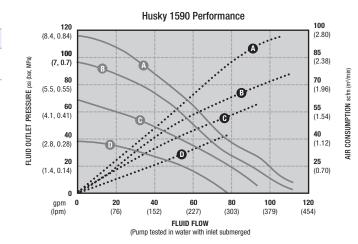
<sup>\*</sup>Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

# **Ordering Information**

## **Husky 1590 AODD Pump**

-		•
	Part Number	Description
	DB3525	Husky 1590 Aluminium – 1.5 in Aluminium/TPF

### **Pump Performance**





(A) = at 120 psi (8.4 bar, 0.84 MPa)

**B** = at 100 psi (7 bar, 0.7 MPa) C = at 70 psi (4.8 bar, 0.48 MPa) (D) = at 40 psi (2.8 bar, 0.28 MPa)

Air Consumption • • • • •

LEGEND











# **Husky 2150 AODD Pump**

- · 2 in fluid connections
- Fluid delivery up to 150 gpm (567.8 lpm)
- Operate as low as 20 psi up to 120 psi for max flow
- Maximum working pressure of 120 psi for long line runs
- End porting available
- High-efficiency air valve operates at maximum of 175 scfm
- Groundable to reduce risk of static and electric shock

echnical Specifications			
Maximum fluid working pressure	120 psi (8.4 bar, 0.84 MPa)		
Maximum free-flow delivery*	150 gpm (568 l/min)		
Maximum pump speed	145 cpm		
Fluid displacement per cycle**	1.03 gal (3.9 l)		
Maximum suction lift	20 ft (6.1 m) dry		
Maximum-size pumpable solids	0.25 in (6.3 mm)		
Maximum ambient operating temperature***	150°F (65.5°C)		
Maximum diaphragm operating temperature***	150°F (65.5°C)		
Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 125 cpm	78 dB(A)		
Maximum air consumption	175 scfm (4.9 m³/min)		
Air pressure operating range	20 psi to 120 psi (1.4 bar to 8.4 bar, 0.14 MPa to 0.84 MPa)		
Air inlet size	1/2 NPT(F)		
Fluid inlet size	2 in NPT(F)		
Fluid outlet size	2 in NPT(F)		
Weight	58 lb (26.3 kg), 62 lb (28.1 kg) – Extended		
Wetted parts	Acetal, aluminium, TPE, PTFE		
Instruction manual	308368		
**Claurates are with muffler and do not very based an displacement and **Displacement are available and user based an austica			

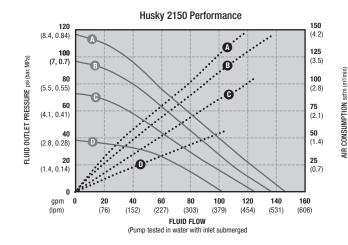
<sup>\*</sup>Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

# **Ordering Information**

## **Husky 2150 AODD Pump**

•		•
	Part Number	Description
	DF3525	Husky 2150 Aluminium – 2 in. Aluminium/TPE

### **Pump Performance**



A = at 120 psi (8.4 bar, 0.84 MPa)

**B** = at 100 psi (7 bar, 0.7 MPa) (C) = at 70 psi (4.8 bar, 0.48 MPa)

(D) = at 40 psi (2.8 bar, 0.28 MPa)

Air Consumption • • • • • Fluid Pressure \_

# **Husky 3300 AODD Pump**











# **Husky 3300 AODD Pump**

- 3 in fluid connection
- Fluid delivery up to 300 gpm (1135.6 lpm)
- Operate as low as 20 psi up to 125 psi for max flow
- Maximum working pressure of 125 psi for long line runs
- Rotatable center porting available
- High-efficiency air valve operates at maximum of 335 scfm
- · Groundable to reduce risk of static and electric shock

Technical Specifications			
Maximum fluid working pressure	125 psi (8.4 bar, 0.84 MPa)		
Maximum free-flow delivery*	300 gpm (1,135 l/min)		
Maximum pump speed	103 cpm		
Fluid displacement per cycle**	2.9 gal (11 l)		
Maximum suction lift	8 ft (2.4 m) dry, 28 ft (8.5 m) wet		
Maximum-size pumpable solids	0.5 in (13 mm)		
Maximum ambient operating temperature***	150°F (65.5°C)		
Maximum diaphragm operating temperature***	150°F (65.5°C)		
Typical sound level at 50 psi (3.4 bar, 0.34 MPa) air @ 50 cpm	92 dB(A)		
Maximum air consumption	335 scfm (9.5 m³/min)		
Air pressure operating range	20 psi to 125 psi (1.4 bar to 8.6 bar, 0.14 MPa to 0.86 MPa)		
Air inlet size	3/4 NPT(F)		
Fluid inlet size	3 in (76.2 mm) NPT or BSPT with ANSI/DIN flange		
Fluid outlet size	3 in NPT(F) or BSPT(F)		
Weight	150 lb (68 kg)		
Wetted parts	Acetal, aluminium, carbon-coated steel, TPE		
Instruction manual	3A0410		
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<sup>\*</sup>Maximum values with water as media at ambient temperature. Water level is approximately 3 ft above pump inlet.

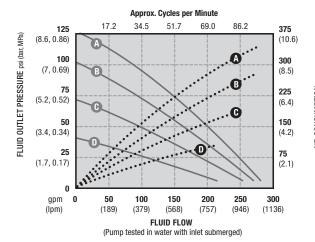
# Ordering Information

#### Husky 3300 AODD Pump

Part Number	Description	
652002	Husky 3300 Aluminium – 3 in Aluminium/TPF	

### Pump Performance

### Husky 3300 Performance



AIR PRESSURE A = at 125 psi (8.3 bar, 0.83 MPa) **B** = at 100 psi (7 bar, 0.7 MPa) CONSUMPTION scfm (C) = at 70 psi (4.8 bar, 0.48 MPa) **(D)** = at 40 psi (2.8 bar, 0.28 MPa) Air Consumption • • • • • Fluid Pressure -



<sup>\*\*</sup>Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Sound power measured per ISO-9614-2. Sound pressure was tested 3.28 ft (1 m) from equipment.



# **Diaphragm Pump Packages**



# Ordering Information

# **Pre-Mixed Windshield Wash Solvent and Coolant Dispense**



Package Number	237161	237160
Pump Type	Husky 307	-
Pump	D31255	-
Air Filter	110146	110146
Air Gauge	108190	108190
Air Regulator	110318	110318
Fluid Connect Hose – 4 ft	220596	220596
Air Connect Hose – 6 ft	109125	109125
Mounting Bracket	190125	190125
Wall Bracket Kit	224835	-
Suction Kit	223888	223888
Instruction Manual	308426	308426



# **Diaphragm Pump Packages**





# Ordering Information

# **Bulk Anti-Freeze and Windshield Solvent Transfer Packages**









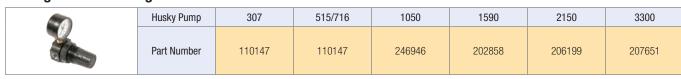
Package Number	244679	244680	244681	244682
Pump Type	Husky 1050 – Dual Inlet	Husky 1050 – Single Inlet	Husky 515 – Dual Inlet	Husky 716 – Single Inlet
Pump	647016	647016	243669	241906
Air Regulator	244844	244844	110147	110147
Fluid Connect Hose	115042	115042	109105	109105
Air Connect Hose	205418	205418	109125	109125
Air Shut-Off Valve	110225	110225	110223	110223
Wall Mount Bracket	24C637	24C637	224835	224835
Dual Inlet Manifold	24D147	-	-	-
Suction Kit	(2) 236054	236054	(2) 236054	236054
Thermal Relief Kit	238428	238428	238428	238428
Instruction Manual	309353	309353	309353	309353

# **Diaphragm Pump Accessories**

### **Air Line Filters**

\$ 1	Husky Pump	307	515/716	1050	1590	2150	3300
	Part Number	110146	110146	106148	106149	106150	106150

## **Air Regulator and Gauge**



## **Air Quick-Connect Coupler**

Husky Pump	307	515/716	1050	1590	2150	3300
Part Number	208536	208536	110199	110199	110199	110200

### **Air Quick-Connect Nipple**

Alluna	Husky Pump	307	515/716	1050	1590	2150	3300
	Part Number	169970	169970	110196	110196	110196	110197

### **Bleed-Type Air Valve**

0_0_0	Husky Pump	307	515/716	1050	1590	2150	3300
	Part Number	110223	110223	110224	110225	110225	110226

### **Dual-Inlet Manifold**

16	Husky Pump	307	515	1050	1590	2150	3300
AL CONTRACTOR	Part Number	237211	194347	24D205	-	-	-

# **Grounding Wire and Clamp**

Husky Pump	307	515/716	1050	1590	2150	3300
Part Number	222011	222011	238909	222011	238909	238909

### **Suction Hose Kit**

D	Husky Pump	307	515/716	1050	1590	2150	3300
	Part Number	236054	236054	222916	222916	222916	-

# **Diaphragm Pump Accessories**

### **Thermal Relief Kit**



Husky Pump	307	515/716	1050	1590	2150	3300
Part Number	238899	238428	238428	-	-	-

## Thermal Relief Valves - 150 psi (10.3 bar)



Husky Pump	307	515/716	1050	1590	2150	3300
Part Number			113497 al/bn	, 112119 ss/tf		

### **Wall Bracket**



Husky Pump	307	515/716	1050	1590	2150	3300
Part Number	224835	224835	24C637	-	-	-

## **Air-Operated Double-Diaphragm Transfer Pumps Replacement Parts**















					200		7		Bered
Pump Number	D31255	243669	241906	647016	647731	647648	DB3525	DF3525	652002
Air Valve Replacement Kit	239952	241657	241657	24B768	24B768	24B768	236273	236273	24K860
Seats	D03200	D05200	D05200	24B634	24B632	24B634	D0B500	D0F500	24K932
Balls	D03050	D05070	D05070	24B639	24B639	24B639	D0B020	D0F020	24K937
Diaphragm Kit	D03005	D05007	D05007	24B624	24B624	24B624	D0B005	D0F005	24K901
Fluid Repair Kit (Ball, Seats, Diaphragm)	D03255	D05277	D05277	25A857	_	25A857	D0B525	D0F525	25A874

# **Undercoating and Rustproofing Pumps**



## Ideal for Undercoating and Rustproofing **Application in Medium-Sized Shops**

Utilizing the durable Fire-Ball® 300 pump, these kits are designed for use in medium-volume undercoating and rustproofing dispense applications. A three-inch differential air motor ensures smooth pumping, and the double-acting pump design provides reliable material flow and accurate dispense.

### Durable

Thick cast aluminium air motor housing offers unmatched durability.

### Superior Material Handling

Double-acting pump ensures smooth fluid flow.

#### Extended Seal Life

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

### Wetted-Parts Options

Available in carbon steel for petroleum-based or SST for water-based materials.

### Corrosion-Resistant

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

#### Typical Applications

- · Undercoating, rustproofing and sound-deadening materials
- · Automotive and heavy-duty vehicle dealerships
- · Fast lube centers and service shops
- · Fleet service facilities

#### Typical Fluids Handled

· Undercoating and rustproofing (Verify chemical compatibility for pump's wetted components with undercoating material supplier or contact Graco directly at 1-800-533-9655)

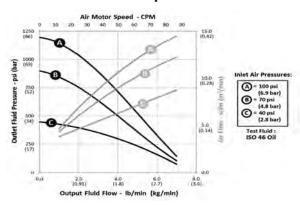


# **Undercoating and Rustproofing Pumps**



### **Pump Performance**

## Fire-Ball 300 15:1 Pumps



Fluid Pressure Ratio	15:1
Air Motor Effective Diameter	3 in (76.2 mm)
Annual Usage	Up to 10,000 lb (4,535 kg)
Maximum Fluid Working Pressure	2,700 psi (186 bar / 18.6 MPa)
Approximate Free-Flow Rate @ 100 psi	7.5 lb/min (3.4 kg/min)
Output per Cycle	1.29 oz (36.6 g)
Continuous-Duty Flow Rate	0.7 lb/min (0.32 kg/min)
Approximate Air Use and Flow @ 100 psi (80 cpm)	14 @ 6.5 lb/min (0.40 @ 2.9 kg/min
Air Inlet	3/8 in NPT(F)
Fluid Outlet	1/4 in NPT(F)
Air Operation Range	40 psi to 180 psi (2.8 bar to 12.5 bar
Max Recommended Pump Speed	66 cpm
Cycles per Pound	12.4 cpp
Cycles per Kg	27 cpk
Wetted Parts	CS, AL, leather, PTFE, rubber
Sound Pressure Level	77.8 dB(A)
Sound Power Level	85.6 dB(A)
Approximate Weight	22 lb (10 kg)
Instruction Manual	306531





# **Undercoating and Rustproofing Pump Packages**

## Ordering Information

## **Undercoating Packages**



Package Number	222077	226342	226269
Type of Package	Portable	Portable Dolly-Mounted	Stationary
Ratio	15:1	15:1	15:1
Container Size	35 lb (16 kg)	120 lb (54 kg)	400 lb (180 kg)
Pump Part Number	206405	206699	206700
Dispense Kit*	222079	222079	222082
Tip	286517	286517	286517
Hose Length	15 ft (4.6 m)	15 ft (4.6 m)	25 ft (7.6 m)
Drum Cover	222058	204574	200326
Portable Base	-	204144	-
Hold-Down Kit	222061	207361	207361
Instruction Manual	307879	307879	307879

<sup>\*</sup>Dispense kit includes Air Regulator (110234), Air Gauge (100960), Spray Gun (234237)

# **Undercoating and Rustproofing Pump Packages**



# Ordering Information

# **Spray Masking Package**



224826
Bung Mounted Stationary
15:1
400 lb (180 kg)
224825 (SST pump)
224022*
224023
286211/286621
25 ft (7.6 m)
308069

\*224022 is long enough for 400 lb (180 kg) container, but can be trimmed to accommodate smaller containers. \*\*Dispense kit includes Flex Plus $^{\rm IM}$  spray gun (235457).



# **Undercoating and Rustproofing Accessories**



### Ordering Information

## **Application Gun**

4
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234237	Four-finger silver gun with tip guard 243161 and tip 286517. 4,500 psi (310 bar) x 3/8 NPT(f) inlet. Must order 155570 adapter and 239663 straight swivel to accommodate gun to 1/4 in (mbe) hose.

### **Bung Adapter**



Part Number	Description
239966	Bung adapter compatible with Fire-Ball 300, 15:1 pump

### **Filter**



Part Number	Description
214570	60-mesh aluminium filter, 3/8 NPT(F) inlet, 1/4 NPT(F) outlet. Maximum working pressure 3,000 psi (210 bar).

### **Nozzle Extension**



Part Number	Description	
206496	Nozzle extension delivers 360° coating fan into blind areas. Length 30-3/4 in (99 cm) x 7/8-14(f) end. Tip 206502, size .043.	

## **Replacement Screen Elements (SST)**

	Part Number		
	30 Mesh	60 Mesh	100 Mesh
3-Pack	224458	224459	224469
25-Pack	238436	238438	238440

### **Swivel**



Part Number	Description	
202577	Z-swivel allows non-binding movement for hard-to-reach locations.  Order 155570 adapter separately to accommodate 234237 gun.	

# **Bulldog® 43:1 Oil Pump**











# **Reliable Operation in the Harshest Environments**

With its efficient, large-ported air valve, the Bulldog 43:1 air-powered pump is the highest-performing in its class. Downtime is minimized by an air motor design that has been developed and tested for more than 10 million cycles of operation.

### Added Safety

Grounded lug prevents static buildup.

### Easy Installation

Compact, low-profile design makes installation easier.

### Corrosion-Resistant

Lightweight aluminium construction.

### Built-In Reliability

Tested to 10 million cycles without failure.

### **Typical Applications**

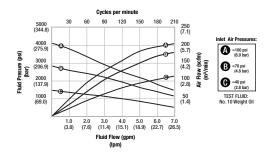
- Automotive dealerships
- · Fast lube centers
- Service shops
- · Heavy-duty dealerships
- · Fleet services facilities
- In-plant
- Lube trucks
- Mining

### Typical Fluids Handled

• Petroleum- and syntheticbased oils (motor, gear, hydraulic and ATF)

### **Pump Performance**

### **Bulldog 43:1 Pumps**













Technical Specifications			
Fluid Pressure Ratio	43:1		
Maximum Fluid Working Pressure	4,300 psi (301 bar / 30.1 MPa)		
Maximum Air Input Pressure	100 psi (7 bar)		
Air Inlet	3/4 in NPSM(F)		
Fluid Inlet	1 in NPT(F)		
Fluid Outlet	3/4 in NPT(F)		
Wetted Parts	Carbon steel, stainless steel, chrome plating, zinc plating, nickel plating, brass, Buna-N		
Instruction Manual	309966		

## Ordering Information

## **Bulldog 43:1 Pumps**

Part Number	Description
218334	43:1 Bulldog hydraulic supply pump

# **Air Pressure Regulators**

Part Number	Description
206197	1/2 in NPT inlet and outlet
207755	3/4 in NPT inlet and outlet

### **Air Line Filters**

Part Number	Description
106149	1/2 in NPT inlet and outlet
106150	3/4 in NPT inlet and outlet

## **Air Line Lubricators**

Part Number	Description
214848	1/2 in NPT inlet and outlet
214849	3/4 in NPT inlet and outlet

# **Grouding Clamp and Wire**

Part Number	Description
103538	Grounding clamp
222011	Ground wire

## **Bleed-Type Master Air Valve**

Part Number	Description
107142	1/2 in NPT inlet and outlet

### **Repair Kits**

Part Number	Description	
24U227	Pump lower repair kit	
24U228	Air motor repair kit	
24W515	Pump and air motor repair kit	



# Fast-Flo® 1:1 Pumps

GRACO FAST-FLO

Ex) H2G

0

IMP













This air-operated piston pump is ideal for pumping various fluids and provides a continuous-duty flow rate of up to 5 gpm.



Differential air motor ensures smooth pumping.

### Lightweight Design

Allows for easy transport and drum insertion.

### Easily Controlled Flow Rate

Simple regulation of air supply controls flow rate.

#### Submersible Suction Tube

Stubby and drum length suction tubes eliminate the need for suction pipe or tube.

#### Corrosion Resistance

Available stainless steel models offer protection in harsh environments.

### **Typical Applications**

- Low-pressure, high-volume transfer of low viscosity fluids
- · Automotive dealerships
- · Heavy-duty dealerships
- Fast lube centers
- · Fleet service facilities
- Service shops
- In-plant
- · Lube trucks
- Mining

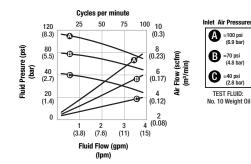
### Typical Fluids Handled

- Water
- Anti-freeze
- Windshield wash fluid
- Used oil
- · Used anti-freeze

NOTE: Use Fast-Ball® 1:1 for petroleum-based products.

### **Pump Performance**

### **Fast-Flo 1:1 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 bar/1.2 Mpa)				
Approximate Free-Flow Rate @ 100 psi (80 cpm)	5 gal/min (19 liters/min)				
Output per Cycle	151 cc				
Approximate Air Use and Flow @ 100 psi (80 cpm)	7 csfm @ 3.1 gpm (0.2 m³/mm @ 11.71 lpm)				
Air inlet	1/4 in NPT(F)				
Fluid Inlet	1-1/2 in NPT(F)				
Fluid Outlet	3/4 in NPT(F)				
Air Operations Range	40 psi to 180 psi (2.8 bar to 12 bar)				
Maximum Pump Speed	100 cpm				
Cycles per Gallon	25 cpg				
Cycles per Liter	6.6 cpl				
Wetted Parts	See ordering info				
Sound Pressure Level	72 dB(A)				
Sound Power Level	82 dB(A)				
Instruction Manual	307427				

## Ordering Information

### Fast-Flo 1:1 Pumps

Includes motor and pump lower assembly

Fluid	Length	Tube Material	Seal Material	Approvals	Part Number
Anti-Freeze, Windshield	Drum	Stainless Steel	Polyethylene	ETL, CE, EX	226942
Washer Solvent, ATF, Oil	Universal	Stainless Steel	Polyethylene	ETL, CE, EX	226945
			Buna-N	CE	226947
			Buna-N	CE	226951*
		Carbon Steel	Leather	CE, EX	237133
	Drum	Carbon Steer	PTFE	CE, EX	237134
	Drum		Leather	ETL, CE, EX	226940
			Polyethylene	ETL, CE, EX	226941
		Stainless Steel	Buna-N	CE	226953
Oil			PTFE	CE, EX	237129
		Carbon Steel	Buna-N	CE	226948
			Leather	CE, EX	237130
			PTFE	CE, EX	237131
	Universal		Leather	ETL, CE, EX	226943
			Polyethylene	ETL, CE, EX	226944
		Stainless Steel	Buna-N	CE	226952
	Stainle	Stairliess Steel	PTFE	CE, EX	237132

<sup>\*</sup>Adjustable downtube length between 18 in (457 mm) and 46.4 in (1,180 mm)

# **Fast-Flo 1:1 Pump Accessories**

# Ordering Information

## **Hose and Fitting Kits**

	Part Number	Description	Includes		
Pa	Fait Number	Description	Air Hose / Swivel Elbow	Fluid Hose / Swivel Elbow	
133	222118	18 in (0.5 m) for connecting wall-mounted Fast-Flo 1:1 pumps to piping	109123 / 155541	109108 / 160327	
	222119	6 ft (1.8 m) for use with drum-mounted Fast-Flo 1:1 pumps	109125 / 155541	109105 / 160327	

# **Bung Adapters**

Part Number	Description
214583	Allows direct mounting of full-length Fast-Flo 1:1 pumps into standard 2 in NPT drum bung (Included)
217359	Sealed bung adapter for Fast-Flo pumps; can be used with suction kit 236054

### **Installation Kits**

Part Number	Description
218316	Includes regulator (104815), gauge (104655) and fittings (169969/114558) as necessary for normal installation
210881	Wall mounting bracket for Fast-Flow 1:1 Pumps

### **Suction Kit**

	Part Number	Description	Includes		
			Bung Adapter	Bushing Pipe	6 ft Hose
	236054	6 ft (1.8 m) suction kit for 55 gal (200 l) drums. For use with Fast-Ball, Mini Fire-Ball and Fire-Ball universal pumps.	188845	101496	109105



# **Fast-Flo 1:1 Pump Accessories**



## Ordering Information

### **Drum Covers**

Part Number	Description
204574	Drum cover for 10 gal (40 l) and 16 gal (60 l) sized containers. Drum cover mounts on top of an open drum with mounting house for a 1:1 pump. Includes thumb screws and a rubber gasket.
200326	Drum cover for a 55 gal (200 l) container. Drum cover mounts on top of an open drum, with mounting for a 1:1 pump.

### **Air Line Filter**

	Part Number	Description
T	106149	1/2 in NPT inlet and outlet

### **Air Line Lubricator**

-	Part Number	Description
	214848	1/2 in NPT inlet and outlet



# **APEX™** and **APEX** On-Demand



















## **Electric Gear Pumps for High-Volume Transfer**

At Graco, we provide durable pumping solutions for all your oil and fluid transfer applications. Our line of APEX pumps is available in AC and DC configurations to meet your fluid transfer needs.





## **APEX Transfer Pumps**

- · Available with 12 VDC, 115 VAC and 230 VAC electric motors
- TENV electric motor for demanding environments models 260105, 260106, 260108 and 260109
- Self-priming, positive displacement design
- Pumps petroleum- and synthetic-based lubricants up to 8 gpm (30 lpm)
- · Built-in bypass valve
- Transfer used oil with inlet suction screen
- · System includes suction tube, fluid hose, dispense valve and bung adapter for models 260100, 260101, 260102 and 260104

## **APEX On-Demand Pumps**

- Available in 12 VDC and 115 VAC
- On-demand pressure-sensing system starts and stops the pump
- TENV electric motor for demanding environments
- Extremely quiet pump operation
- · Output flow is continuous and non-pulsating
- Low operating and installation costs
- · Inlet and outlet check valves with thermal relief valves included
- · All units include bung adapter

#### **Typical Applications**

- · Filling bulk tanks from drums
- Lubricant transfer from remote locations
- Construction equipment
- · Agricultural equipment
- · Filling in-plant machinery
- · Evacuating used oil receivers
- Filling shop oil furnaces with new or used oil
- Automotive and truck service garages
- · Fleet marine and personal boat service
- · Aircraft maintenance

### Typical Fluids Handled

- Synthetic oil
- Petroleum oil\*
- Used oil\*
- · Anti-freeze
- · Hydraulic fluids
- · Cutting oils
- Liquid soap
- · Non-flammable oil-based solvents
- · Oil-based herbicide carriers
- \* Not for food grade use









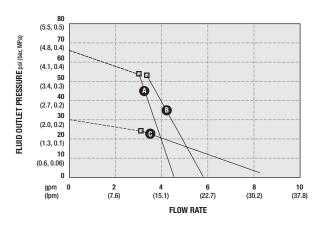




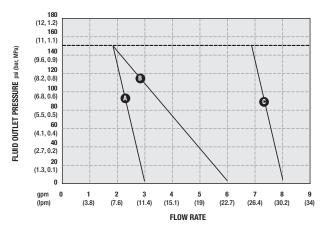








PART NUMBERS	LEGEND	
A= 260101, 260104	Relief	
B=260100	valve opens	
©= 260102		



PART NUMBERS LE	GEND
(A) = 260105, 260106	Relief valve
B = 260108	setting at 150 psi (10.3 bar, 1.0 MPa)
© = 260109	(10.5 bai, 1.0 WFa)

### >>> Ordering Information

## **APEX Pumps**

Part Number	260100	260101	260102	260104	260105	260106	260108	260109
Motor	12 VDC	115 VAC	115 VAC	230 VAC	115 VAC	115 VAC	115 VAC	115 VAC
Hertz	-	60 Hz	60 Hz	50/60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Horsepower	3/4	1	3/4	1/2	3/4	3/4	3/4	1
Maximum Current (Amps)	35	9.2	9.2	4	7.5	7.5	9	11
Maximum Flow Rate gpm (lpm)	5.8 (22)	4.25 (16)	8.0 (30)	4.25 (16)	3.0 (11)	3.0 (11)	4.2 (16)	7.9 (30)
Maximum Pressure psi (bar)	65 (4.5)	65 (4.5)	65 (4.5)	65 (4.5)		150	(10)	
Automatic Relief Setting psi (bar)	65 (4.5)	65 (4.5)	30 (2.1)	65 (4.5)	-			
Inlet		1 in NPT						
Outlet	3/4 in NPT							
Wetted Parts		Carbon steel with zinc plating, stainless steel, galvanized steel, aluminium, nitrile, rubber, PVC, PVC cement			Carbon stee		stainless steel, galv nitrile, rubber	anized steel,
Weight lb (kg)	34 (15)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	30 (14)
Manual	311305				311	306	,	

# **APEX and APEX On-Demand**









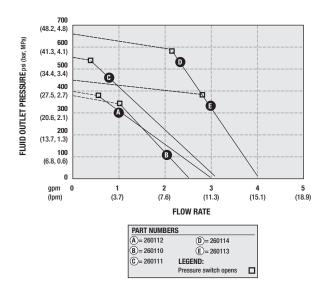












# Ordering Information

### **APEX On-Demand Pumps**

Part Number	260110	260111	260113	260114	260112
Voltage	115 VAC	115 VAC	115 VAC	115 VAC	12 VDC
Hertz	60 Hz	60 Hz	60 Hz	60 Hz	_
Horsepower	3/4	1	1-1/2	2	3/4
Bung Adapter	260061	260061	260061	260061	260061
Maximum Current (Amps)	10.6	13.6	18.0	21.0	62.0
Maximum Flow Rate gpm (lpm)	2.3 (9)	3 (11)	4 (15)	4 (15)	3 (11)
Maximum Pressure psi (bar)	370 (25)	550 (38)	470 (32)	650 (45)	400 (28)
Inlet	3/4 in NPT	3/4 in NPT	3/4 in NPT	3/4 in NPT	3/4 in NPT
Outlet	1/2 in NPT	1/2 in NPT	1/2 in NPT	1/2 in NPT	1/2 in NPT
Wetted Parts	Carbon steel with zinc plating, stainless steel, galvanized steel, aluminium, nitrile, rubber, PVC, PVC cement				
Weight Ib (kg)	27 (12)	32 (15)	41 (19)	52 (24)	27 (12)
Manual	311307				





















# **APEX and APEX On-Demand**

### Ordering Information

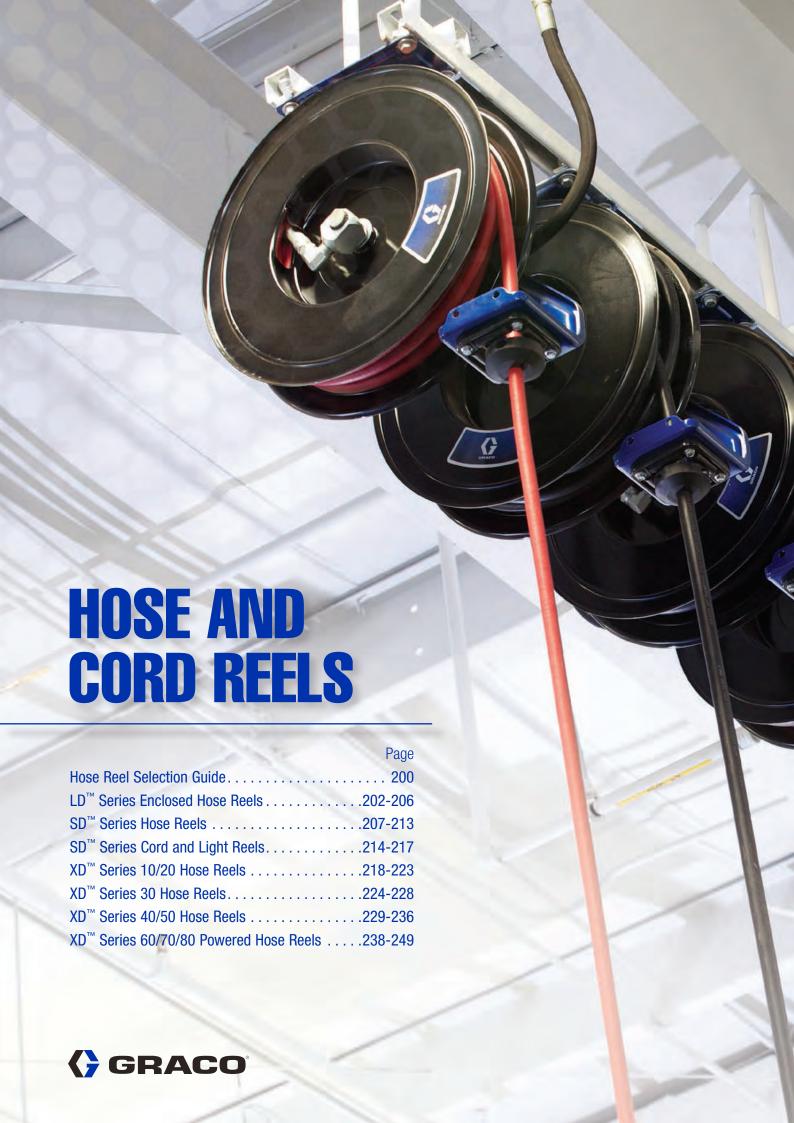
### **Accessories**

Part Number	Description
260145	Wall mounting bracket, fits all models
260238	"Y" strainer with 3/4 in NPT female in-line strainer for used oil transfer
260306	Inlet suction screen assembly, required for used oil applications, 20 mesh screen
260124	55 in (1.3 m) PVC suction tube with inlet check valve
260125	Dispense valve kit
260300	Suction tube kit, 3/4 in PVC



Notes	
	<u>.</u>

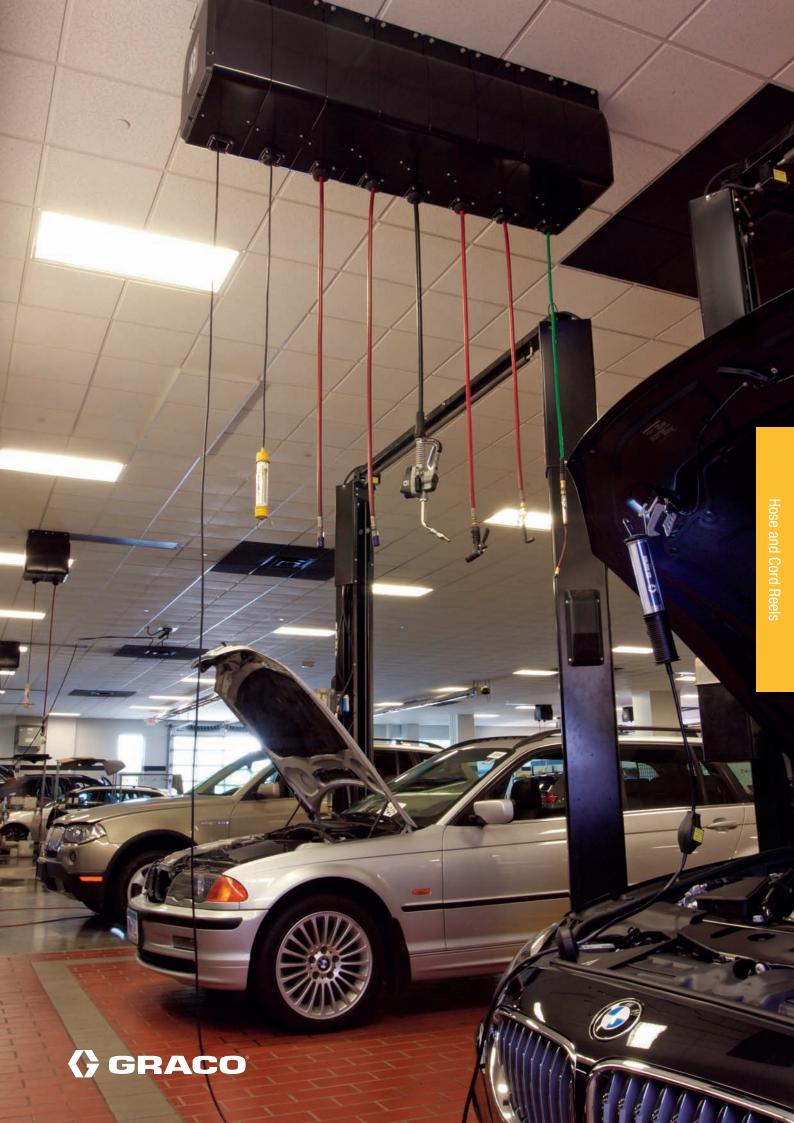




# **Graco Hose and Cord Reel Selection Guide**

	Typical Application	Typical Fluid	Hose/Cord Length Options	Enclosed	Reference Pages
LD™ Series	Small maintenance shops     Tire maintenance shops     Small fast lubes     Independent repair facilities     Industrial manufacturing facilities	Petroleum- and synthetic-based oils Air Water Grease Anti-freeze Windshield washer fluid	• 35 ft (11 m) • 45 ft (14 m) • 50 ft (15 m)	Yes	202-206
SD <sup>™</sup> 10 / 20 Series	Car dealerships Light-/medium-duty truck dealers Fleet maintenance Public works garages Construction vehicle maintenance Light-utility service trucks	Petroleum- and synthetic-based oils Air Water Grease Anti-freeze Windshield washer fluid	• 35 ft (11 m) • 50 ft (15 m) • 65 ft (20 m)	Optional	207-213
SD™ Series Cord Reels	Automotive dealerships     Fast lube centers     Service shops     Heavy-duty dealerships     Fleet services facilities     In-plant     Lube trucks     Mining	-	• 35 ft (11 m) • 50 ft (15 m) • 95 ft (29 m)	Optional	214-217
XD <sup>™</sup> 10 / 20 Series	Heavy-duty truck dealers Fleet maintenance Mining maintenance Public works garage Construction vehicle maintenance Heavy-duty mobile service trucks Mining Lube trucks	Petroleum- and synthetic-based oils Air Water Grease Anti-freeze Windshield washer fluid	• 35 ft (11 m) • 50 ft (15 m) • 65 ft (20 m)	Optional	218-223
XD™ 30 Series	Heavy-duty truck dealers     Fleet maintenance     Mining maintenance     Public works garage     Construction vehicle maintenance     Heavy-duty mobile service trucks     Mining     Lube trucks	Petroleum- and synthetic-based oils Diesel fuel Air Water Grease Anti-freeze Windshield washer fluid Pressure wash Waste oil evacuation Diesel exhaust fluid (DEF)	• 35 ft (11 m) • 50 ft (15 m) • 65 ft (20 m) • 75 ft (23 m)	No	224-228
XD <sup>™</sup> 40 / 50 Series	Heavy-duty truck dealers     Fleet maintenance     Mining maintenance     Public works garages     Construction vehicle maintenance     Heavy-duty mobile service trucks     Agriculture     Lube trucks	Petroleum- and synthetic-based oils Diesel fuel Air Water Anti-freeze Waste oil evacuation	• 35 ft (11 m) • 50 ft (15 m) • 75 ft (23 m) • 100 ft (30 m)	No	229-236
XD <sup>™</sup> 60 / 70 / 80 Series	Heavy-duty truck dealers     Fleet maintenance     Mining maintenance     Public works garages     Construction vehicle maintenance     Heavy-duty mobile service trucks     Agriculture     Lube trucks	Petroleum- and synthetic-based oils     Diesel fuel     Air     Water     Grease     Waste oil evacuation	• 50 ft (15 m) • 75 ft (23 m) • 100 ft (30 m) • 150 ft (46 m)	No	238-249























# **Economical Enclosed Hose** Reels Get You Up and Running Fast

Reduce clutter and increase workplace safety with a Graco one-piece enclosed hose reel. Designed for light-duty applications in dealerships, service garages, collision repair and industrial manufacturing facilities.

### Large Fluid Porting

Maximizes fluid flow with minimal pressure drop

### Simple Spring Tension Adjustment

Ability to increase or decrease spring tension while reel is pressurized

# Multiple Mounting Options

Wall, ceiling bench, or tank configurations (wall mount pictured)

### Full Enclosure

Tough, dent-proof, corrosion-resistant enclosure

### **Typical Applications**

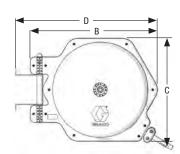
- Small maintenance shops
- Tire maintenance shops
- Small fast lubes
- Independent repair facilities
- Industrial manufacturing facilities

### Typical Fluids Handled

- · Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Anti-freeze
- · Windshield washer fluid

Dimensions		
Α	7.1 in (180 mm)	
В	23.0 in (585 mm)	
С	18.5 in (470 mm)	
D	25.6 in (650 mm)	





echnical Specifications	
Operating Temperature Range	
Air-Only Reels	14°F to 140°F (-10°C to 60°C)
Water Applications	32°F to 140°F (0°C to 60°C)
All-Other Applications	0°F to 140°F (-18°C to 60°C)
Wetted Parts	
Air Only Reels	Aluminium, Buna-N rubber, PVC
Air/Water/Anti-Freeze/Windshield Washer Fluid Reels	Aluminium, Buna-N rubber
Oil Reels	Carbon steel, Buna-N rubber, PTFE
Grease Reels	Carbon steel, Buna-N rubber
Sound Pressure Level	69.3 dB(A)
Sound Power Level	75.3 dB(A)
Instruction Manual	313938

















### Ordering Information

## **LD Series Reel Packages - NPT**

Includes hose with ball stop kit and hose guide, mounting bracket, and hose inlet kit.

Tuno of		Но	ose	Connec	tion Size	Maximum	Package	F	Package Include	S
Type of Mount	Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	Part Number	Reel Assembly	Mount Kit	Inlet Kit
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F737	24H657		
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F738	24H658		040444
<b>3</b> 6 1	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F739	24H659		24C444
<u>G</u> /4	Traction Fidure	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F740	24H660	24G866	
	Oil	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F741	24H661		24C537
Cailing/Mall	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F742	24H662		24C538
Ceiling/Wall Swivel Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F743	24H663		24C539
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F755	24H657		
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F756	24H658		24C444
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F757	24H659		240444
		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F758	24H660	24G865	
	Oil	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F759	24H661		240537
0 111 111 11	UII	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F760	24H662		24C538
Ceiling/Wall Stationary Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F761	24H663		240539
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F773	24H657		
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F774	24H658		040444
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F775	24H659		24C444
		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F776	24H660	240772	
0	Oil	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F777	24H661		24C537
	UII	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F778	24H662		24C538
Bench Swivel Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F779	24H663		24C539























Tupo of		Ho	se	Connec	tion Size	Maximum	Package	F	ackage Include	S
Type of Mount	Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	Part Number	Reel Assembly	Mount Kit	Inlet Kit
	Air	1/4 (6)	35 (11)	1/4 (6)	1/4 (6)	250 (17.2)	24F744	24F789		240437
	All	1/4 (6)	50 (15)	1/4 (6)	1/4 (6)	250 (17.2)	24F745	24F790		24043
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F746	24F971		
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F747	24F792		24C438
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F748	24F793	24G866	
	Washer Flata	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F749	24F794		
	Oil	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F750	24F795		24044
Ceiling/Wall	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F751	24F796		24044
Swivel Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F752	24F797		24044
		1/4 (6)	35 (11)	1/4 (6)	1/4 (6)	250 (17.2)	24F762	24C789		0.404
	Air	1/4 (6)	50 (15)	1/4 (6)	1/4 (6)	250 (17.2)	24F763	24C790		24C437
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F764	24C791		
	Air/Water/ Anti-Freeze/ Windshield Washer Fluid	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F765	240792	24G865	0.404
		1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F766	240793		24C438
The same of the sa	washer ridia	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F767	24C794		
	011	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F768	24C795		24C4
Ceiling/Wall	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F769	24C796		24C4
Stationary Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F770	24C797		24C4
		1/4 (6)	35 (11)	1/4 (6)	1/4 (6)	250 (17.2)	24F780	24F789		0.404
	Air	1/4 (6)	50 (15)	1/4 (6)	1/4 (6)	250 (17.2)	24F781	24F790		24043
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F782	24F791		
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F783	24F792		
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F784	24F793	240772	2404
	washer riulu	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F785	24F794		
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F786	24F795		24C4
	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F787	24F796		2404
	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F788	24F797		24044



















### Ordering Information



Available Outside North America Only

LD Series Reel Packages — Borr Includes hose with ball stop kit and hose guide, mounting bracket, and hose inlet kit.

Type of		Но	ose	Connec	tion Size	Maximum	Package		Package Include	s
Mount	Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	Part Number	Reel Assembly	Mount Kit	Inlet Kit
	Air	1/4 (6)	35 (11)	1/4 (6)	1/4 (6)	250 (17.2)	24J258	24J126		04 1050
	Air	1/4 (6)	50 (15)	1/4 (6)	1/4 (6)	250 (17.2)	24J259	24J127		24J253
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24J260	24J128		
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24J261	24J129		041054
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24J262	24J130	24G866	24J254
	Wadnor Flaid	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24J263	24J131		
	0.1	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24J264	24J132		24J255
Ceiling/Wall	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24J265	24J133		24J256
Swivel Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24J266	24J134		24J257
		1/4 (6)	35 (11)	1/4 (6)	1/4 (6)	250 (17.2)	24J267	24J126		0.4.105.0
	Air	1/4 (6)	50 (15)	1/4 (6)	1/4 (6)	250 (17.2)	24J268	24J127		24J253
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24J269	24J128		
	Air/Water/ Anti-Freeze/ Windshield Washer Fluid	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24J270	24J129	24G865	
		1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24J271	24J130		24J254
William .	wasilei i lulu	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24J272	24J131	-	
Ceiling/Wall		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24J273	24J132		24J255
	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24J274	24J133		24J256
Stationary Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24J275	24J134	-	24J257
	Air/Water	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24Y204	24Y202	- 24G865	24J254
Ceiling/Wall Stationary Mount	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24Y205	24Y203	240003	24J256
	Air	1/4 (6)	35 (11)	1/4 (6)	1/4 (6)	250 (17.2)	24J276	24J126		24J253
	All	1/4 (6)	50 (15)	1/4 (6)	1/4 (6)	250 (17.2)	24J277	24J127		240200
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24J278	24J128		
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24J279	24J129		24 1254
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24J280	24J130	240772	24J254
6		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24J281	24J131		
	0:1	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24J282	24J132		24J255
Bench Swivel Mount	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24J283	24J133	—	24J256
DONON OWNED WOUNT	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24J284	24J134		24J257





















### Ordering Information

#### **LD Series Reel**

Includes hose. Mounting hardware and hose inlet kit sold separately.

		Ho	se	Connect	tion Size	Maximum	Part Number			Hose Inlet Kit (order separately)		
	Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	NPT	BSPT	BSPP	NPT	BSPT	BSPP
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24H657	24F791	24J128	24C444	24C438	24J254
	Air/Water/ Anti-Freeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24H658	24F792	24J129	24C444	24C438	24J254
•	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24H659	24F793	24J130	24C444	24C438	24J254
		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24H660	24F794	24J131	24C444	24C438	24J254
	Oil	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24H661	24F795	24J132	240537	24C440	24J255
	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24H662	24F796	24J133	240538	24C441	24J256
	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24H663	24F797	24J134	240539	24C442	24J257

### **Hose Inlet Kits**

A hose inlet kit is included in LD reel packages but must be ordered separately with standalone LD reel assemblies.

		Fluid Type	Maximum Working Pressure psi (bar)	Size In (mm)	Inlet Configuration	Outlet Configuration	Part Number	Used with Hose Reel Model
		Air Only		1/4 (6)	1/4 NPT(M)	1/4 NPT(M)	24C443	24H655 / 24H656
		Air/Water	250 (17.2)	3/8 (10)	1/2 NPT(M)	3/8 NPT(M)	24C444	24H657 / 24H658
	NPT	All/Water		1/2 (13)	1/2 NPT(M)	1/2 NPT(M)	240444	24H659 / 24H660
	Ż	Oil	1 000 (104)	3/8 (10)	1/2 NPT(M)	1/2 NPT(M)	240537	24H661
		Oll	1,800 (124)	1/2 (13)	1/2 NPT(M)	1/2 NPT(M)	24C538	24H662
		Grease	5,000 (345)	1/4 (6)	1/4 NPT(M)	1/4 NPT(M)	240539	24H663
		Air Only		1/4 (6)	1/4 BSPT(M)	1/4 BSPT(M)	24C437	24F789 / 24F790
		Air/Water	250 (17.2)	3/8 (10)	1/2 BSPT(M)	3/8 BSPT(M)	24C438	24F791 / 24F792
	BSPT	All/Watel		1/2 (13)	1/2 BSPT(M)	1/2 BSPT(M)	240436	24F793 / 24F794
29. 17	BS	Oil	1,800 (124)	3/8 (10)	1/2 BSPT(M)	3/8 BSPT(M)	24C440	24F795
1		Oii	1,000 (124)	1/2 (13)	1/2 BSPT(M)	1/2 BSPT(M)	24C441	24F796
		Grease	5,000 (345)	1/4 (6)	1/4 BSPT(M)	1/4 BSPT(M)	24C442	24F797
		Air Only		1/4 (6)	1/4 BSPP(M)	1/4 BSPP(M)	24J253	24J126 / 24J127
		Air/Water	250 (17.2)	3/8 (10)	1/2 BSPP(M)	3/8 BSPP(M)	24J254	24J128 / 24J129
	BSPP	All/Watel		1/2 (13)	1/2 BSPP(M)	1/2 BSPP(M)	240204	24J130 / 24J131
2	BS	Oil	1,800 (124)	3/8 (10)	1/2 BSPP(M)	1/2 BSPP(M)	24J255	24J132
		UII	1,000 (124)	1/2 (13)	1/2 BSPP(M)	1/2 BSPP(M)	24J256	24J133
		Grease	5,000 (345)	1/4 (6)	1/4 BSPP(M)	1/4 BSPP(M)	24J257	24J134





















# **Engineered for Everyday Use**

The SD line of hose reels feature Graco durability, performance and value built into every reel. With its durable metal spool and rigid pedestal frame, the compact SD Series is ideal for indoor and moderate outdoor exposure.



Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.

### Adjustable Arm

Easily change to one of six arm positions to fit your application.

### Large Hose Capacity with Small Profile

Compact pedestal and spool fits into tight spaces and can accommodate 35-65 foot (10.7-19.8 meters) hose (NPT air/water) capacity for a wide variety of applications.

#### **Durable Finish**

Baked-on enamel finish (six colours available) protects reel from corrosion.



Reel arm shown in tank/bench mount position.

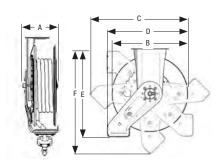
#### **Typical Applications**

- Car dealerships
- Light-/medium-duty truck dealers
- Fleet maintenance
- Public works garages
- Construction vehicle maintenance
- Light-utility service trucks

### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Anti-freeze
- · Windshield washer fluid

Dime	ensions	
	SD 10	SD 20
Α	7.0 in (177 mm)	7.0 in (177 mm)
В	16.2 in (412 mm)	18.1 in (460 mm)
С	21.0 in (533 mm)	23.4 in (594 mm)
D	17.1 in (435 mm)	19.2 in (488 mm)
Е	19.5 in (495 mm)	21.8 in (554 mm)
F	22.5 in (571 mm)	25.2 in (640 mm)



Fechnical Specifications	
Operating Temperature Range	
Air/Water/Anti-Freeze/Windshield Washer Fluid Reels	-20°F to 190°F (-28°C to 87°C)
Oil Reels	-20°F to 190°F (-28°C to 87°C)
Grease Reels	-40°F to 200°F (-40°C to 93°C)
Wetted Parts	
Grease Reels	Zinc plated steel, polyurethane, steel
All Other Reels	Zinc plated steel, anodized aluminium, nitrile rubber
Weight	52 lb (23.5 kg)
Sound Pressure Level	80 dB(A)
Sound Power Level	88 dB(A)
Instruction Manual	313431











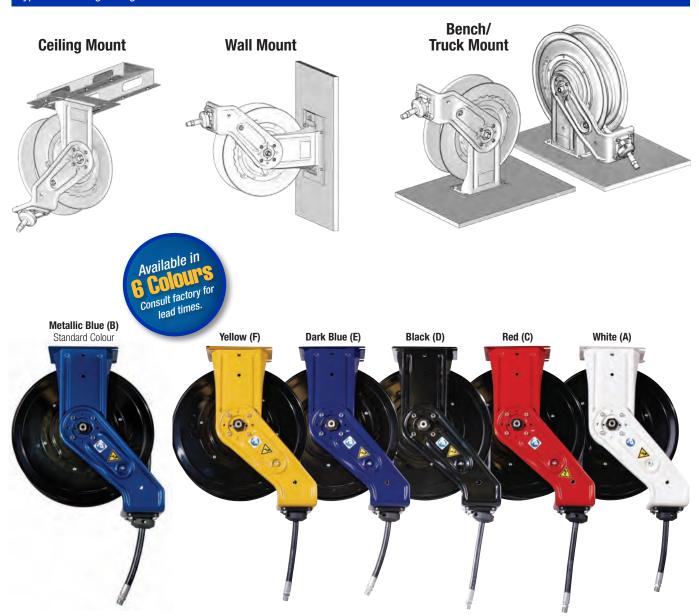








### **Typical Mounting Configurations**





















Ordering Information

### SD 10/20 Reel Assembly Ordering Guide

SD Series reels are available in six colours and multiple thread types. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel colour and thread type.

		Thread Type				
Reel Colour	NPT	Available Outside North America Only				
	INFI	BSPP	BSPT			
White	А	J	Р			
Metallic Blue	В	K	R			
Red	С	L	S			
Black	D	М	Т			
Dark Blue	E	_	_			
Yellow	F	N	U			

**Order Example:** 

Arm in overhead mount position, SD 20, oil, 1/2 in ID hose, 50 ft hose length

**Select your reel position:** 

**HPM65**#

**Select your thread type:** 

**NPT** 

**Select your reel colour:** 

Metallic Blue = "B"

(from Reel Assembly Ordering Guide – opposite)

**Order Part Number:** 

HPM65B



### **Arm in Overhead Mount Position**

Assembled with hose, ball stop kit and roller guide. Required hose inlet kit sold separately.

	Reel		Но	se	Connect	tion Size	Maximum	Assembly	Recommended
	Size	Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	Part Number	Hose Inlet Kit
			3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	300 (20.7)	HPL23#	
	SD 10	Air/Water/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	300 (20.7)	HPL25#	
		Anti-Freeze/ Windshield	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	300 (20.7)	HPL33#	218549 (NPT) 24C441 (BSPT) 24J256 (BSPP)
	SD 20	Washer Fluid	3/8 (10)	65 (20)	1/2 (13)	3/8 (10)	300 (20.7)	HPL56#	
-			1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	300 (20.7)	HPL65#	
	SD 10	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	2,000 (138)	HPM33#	
	SD 20	) UII	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	2,000 (138)	HPM65#	
	CD 10		1/4 (6)	50 (15)	3/8 (10)	1/4 (6)	5,000 (345)	HPH15#	218550 (NPT)
	SD 10	Grease	3/8 (10)	35 (11)	3/8 (10)	1/4 (6)	4,800 (331)	HPH23#	24M231 (BSPT)
	SD 20		3/8 (10)	50 (15)	3/8 (10)	1/4 (6)	4,800 (331)	HPH55#	24M230 (BSPP)

### **Arm in Tank/Bench Mount Position**

Assembled with hose, ball stop kit and roller guide. Required hose inlet kit sold separately.

	Reel		Но	se	Connec	tion Size	Maximum	Assembly	Recommended
	Size	Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	Part Number	Hose Inlet Kit
	SD 20 -	Air/Water/ Anti-Freeze/	3/8 (10)	65 (20)	1/2 (13)	3/8 (10)	300 (20.7)	HPL5J#	
		Windshield Washer Fluid	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	300 (20.7)	HPL6H#	218549 (NPT) 24C441 (BSPT) 24J256 (BSPP)
		Oil	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	2,000 (138)	HPM6H#	
		Grease	3/8 (10)	50 (15)	3/8 (10)	1/4 (6)	4,800 (331)	HPH5H#	218550 (NPT) 24M231 (BSPT) 24M230 (BSPP)

















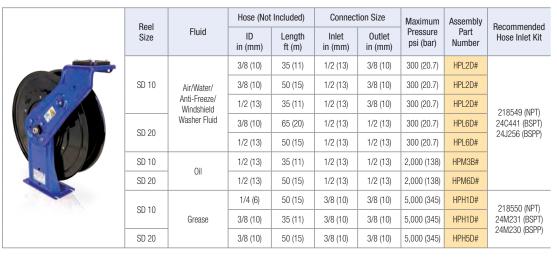


Ordering Information

#### **Bare Reels**

### **Arm in Overhead Mount Position**

Required hose inlet kit sold separately. Fluid hose not included.





















## >>> Ordering Information

## **SD 10 Oil Reel Packages**

	Reel Size	Fluid	Valve Type	Enclosure	Package	Package Includes				
	neer size	Fluiu	valve Type	Eliciosule	Number	Reel Assembly	Enclosure	Hose Inlet Kit	Meter	
<b>1</b>			SDM5 Manual Meter	No	24E001	HPM33B	-	218549	255350	
			with Rigid Extension	Yes	24D996	HPM33B	24A217	218549	255350	
<b>6</b>	SD 10 Oil	Oil	SDM5 Manual Meter	No	24E002	HPM33B	-	218549	255348	
7		Oil	with Flexible Extension	Yes	24D997	HPM33B	24A217	218549	255348	
			None	Yes	24D995	HPM33B	24A217	218549	_	

### **SD 10 Air/Water Reel Packages**

	B 10	<b>-</b>			Package		ı	Package Includes	S	
	Reel Size	Fluid	Valve Type	Enclosure	Number	Reel Assembly	Enclosure	Hose Inlet Kit	Valve	Fitting
			Water Bib Dispense Valve	No	24D999	HPL23B	-	218549	180685	150287
		Water		Yes -	24D993	HPL23B	24A217	218549	180685	150287
					24D994	HPL33B	24A217	218549	180685	159842
	00.40	Air	Tire Chuck	No	24D998	HPL23B	-	218549	218545	-
	SD 10	Air	Valve	Yes	24D992	HPL23B	24A217	218549	218545	-
					24D989	HPL23B	24A217	218549	-	-
		Air/Water	None	Yes	24D990	HPL25B	24A217	218549	-	-
					24D991	HPL33B	24A217	218549	-	-



# **SD Series Hose Reel Accessories**



















Ordering Information

#### **Enclosure Kits for One Reel**

Open mounting accommodates up to six reels. Includes all parts necessary to mount on wall or ceiling. Requires mounting channel.

C	Reel Size	White	Metallic Blue	Red	Black	Dark Blue	Yellow	Required End-Caps (set of 2)
	SD 10	24A217	24A940	24A941	24A942	24A943	24A944	24A950
	SD 20	24A218	24A945	24A946	24A947	24A948	24A949	24A951

### **Hose Inlet Kits**

A hose inlet kit is required when ordering an SD reel.

		Maximum Working Pressure psi (bar)	Size in (mm)	Length ft (m)	Part Number	
		2,000 (137)	1/2 (13)		218549	
	NPT	4,000 (276)	3/8 (10)	2 (0.6)	218550	
		5,000 (345)	1/4 (6)		224417	
	BSPT	2,000 (137)	1/2 (13)		24C441	
113		4,000 (276)	3/8 (10)	3 (0.9)	24M231	
		5,000 (345)	1/4 (6)		24C442	
		2,000 (137)	1/2 (13)		24J256	
	BSPP	4,000 (276)	3/8 (10)	3 (0.9)	24M230	
		5,000 (345)	1/4 (6)		24J257	

### **Ball Stop Kits**

SD reel packages include ball stop kits. Items below are available for bare reels and as replacement parts.

	Hose Inner Diameter (ID) Size	Part Number
	1/4 in (6.4 mm)	222225
	1/4 in to 3/8 in (6.4 mm to 9.5 mm)	218340
	3/8 in to 1/2 in (9.5 mm to 12.7 mm)	218341
	5/8 in (15.9 mm)	237872

### **Mounting Channels**

Accommodates up to six reels. Includes all parts necessary to mount on wall or ceiling.

	Description	1 Reel	2 Reels	3 Reels	4 Reels	5 Reels	6 Reels	
	Enclosed Reel Mounting Channel	203521	203522	203523	203524	203525	203526	
7	Open Reel Mounting Channel	24A934	24A935	24A936	24A937	24A938	24A939	
	I-Beam Mounting Bracket*	204741 (x 2)			204741 (x 3)			

<sup>\*</sup>Secures mounting channel to I-beam without drilling - 2 are required for 1-3 reels, and 3 are required for 4-6 reels.

















# **SD Series Hose Reel Accessories**



### Ordering Information

### **Swivel Mounting Bracket**

Allows reel to swivel 120° with two lockable positions.

Part Number	Description
24N444	Swivel mounting bracket for installing SD 10 reels

### **Easy Slide-In Mount**

Allows reel to slide in and out of mount for easy installation.

Part Number	Description
24H193	Ceiling or wall slide-in mount for SD 10 or SD 20 reels

# **Retrofit Adapter Kits**

	Part Number	Description
	24A224	Includes all parts to mount a hose reel to an existing 500 series mounting pattern
	24C100	Includes all parts to mount a hose reel to an existing 250 series mounting pattern

### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
() GRACO	17\$659	Red
O GRACO	17\$660	Blue
O GRACO	17\$661	Green
O GRACO	17\$662	Yellow
0 GRACO	17S663	White



# **SD Series Cord and Light Reels**

# **Quality Cord and Light Reels**

Organize your work space for a safer, more productive work environment. Make Graco your single source for your entire reel bank.



#### **Durable Frame in Two Sizes**

Choose from the heavy-duty steel construction of the SD Series 5 or 10.

### Multiple Cord Lengths

Choose from 35, 50 and 95 foot (11, 15, 29 meter) options to fit your shop perfectly. Features a 5 foot lead-in cable.

### Adjustable Arm

Easily change the arm position to fit more applications. Works on walls, ceilings or bench mounts.

### Heavy-Duty Pedestal

High-strength steel construction with rolled edges and ribbed stress points that won't flex or twist.

### Multiple Configurations Available

Comes with or without receptacles so you can configure it for your specific needs. Light reels come in your choice of fluorescent or LED with optional tool tap receptacle.



**Technical Specifications** 

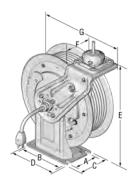
Operating Temperature Range

### Typical Applications

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

() GRACO

im	imensions								
		SD Series 5	SD Series 10						
	Α	3.5 in (89 mm)	3.5 in (89 mm)						
	В	6.38 in (162 mm)	7.5 in (191 mm)						
	С	4.7 in (120 mm)	4.7 in (120 mm)						
	D	7.48 in (190 mm)	9 in (229 mm)						
	Е	14.8 in (376 mm)	19.5 in (498 mm)						
	F	6.6 in (168 mm)	7 in (177 mm)						
	G	13.84 in (352 mm)	17.5 in (445 mm)						



#### -22°F to 122°F Cord Reels (-30°C to 50°C) -4°F to 104°F Light Reels (-20°C to 40°C) Weight without Accessories 16 AWG, Length 35 ft 25.4 lb 16 AWG, Length 50 ft 27.6 lb SD 12 AWG, Length 35 ft 28.2 lb 20V 12 AWG, Length 50 ft 32.0 lb 16 AWG, Length 95 ft 46.3 lb

51.8 lb

11.6 kg

13.9 kg

22.4 kg

24.5 kg

3A2592

SD

SD 5

SD 10

230V

12 AWG, Length 95 ft

1,5 mm<sup>2</sup>, Length 11 m

1,5 mm<sup>2</sup>, Length 15 m

1,5 mm<sup>2</sup>, Length 29 m

2,5 mm2, Length 29 m

# **SD Series Cord and Light Reels**



### Ordering Information

### SD Cord and Light Reels – 120 Volt

120 volt cord and light reels have a black finish and are UL/CSA approved.

	Accessory	Reel Size	AWG	Amp	Cord Length	Insulation	Part Number
	No Accessory –	SD 5	12	20	50 ft (15 m)	SJ00W	24Y859
	Cord Only	SD 10	12	18	95 ft (29 m)	SJ00W	24Y880
		SD 5	16	13	50 ft (15 m)	SJTOW	24Y861
	Single Industrial	SD 5	12	20	35 ft (11 m)	SJ00W	24Y862
	Receptacle	SD 5	12	20	50 ft (15 m)	SJ00W	24Y863
		SD 10	12	18	95 ft (29 m)	SJ00W	24Y882
	Tri-Plug GFCI Industrial Receptacle	SD 5	12	15	50 ft (15 m)	SJ00W	24Y864
		SD 10	12	15	95 ft (29 m)	SJ00W	24Y883
	Fluorescent Light	SD 5	16	<1	35 ft (11 m)	SJTOW	24Y865
C) Elect		SD 5	16	<1	50 ft (15 m)	SJTOW	24Y866
2		SD 10	16	<1	95 ft (29 m)	SJTOW	24Y884
G spice	Fluorescent Light with Single Tool Tap Plug	SD 5	16	10	50 ft (15 m)	SJTOW	24Y868
		SD 5	16	<1	35 ft (11 m)	SJTOW	24Y869
G m piene	LED Light	SD 5	16	<1	50 ft (15 m)	SJTOW	24Y870
		SD 10	16	<1	95 ft (29 m)	SJTOW	24Y886
		SD 5	16	12	35 ft (11 m)	SJTOW	24Y871
G span	LED Light with In-line Tool Tap	SD 5	16	12	50 ft (15 m)	SJTOW	24Y872
	ar into root tap	SD 10	16	10	95 ft (29 m)	SJTOW	24Y887

### SD Cord and Light Reels – 230 Volt

230 volt cord and light reels have a black finish and are CE approved.

Accessory	Size	Wire Gauge	Amp Cord Length		Insulation	Part Number
No Accessory – Cord Only	10	2,5 mm <sup>2</sup>	16	25 m	H07RN-F	24Y888
Single Industrial Receptacle	10	1,5 mm²	5 mm <sup>2</sup> 0.05		H05RR-F	24Y890
LED Light	5	1,5 mm²	10	15 m	H05RR-F	24Y876
	10	2,5 mm <sup>2</sup>	16	25 m	H07RN-F	24Y889



# **SD Series Cord and Light Reels**

### Accessory Ordering Information

#### **Enclosure Kits**

Includes an enclosure for one reel. A set of end-caps are required per single or bank of reels. Requires you to order Enclosed Reel Mounting Channel separately. For mounting SD 5 or SD 10 reels in size 20 enclosures, please see Adapter Kits on page 217.

	Reel Size	White	Metallic Blue	Red	Black	Dark Blue	Yellow	Required End-Caps (set of 2)
	SD 5 with size 10 enclosure	24N690	24N682	24N683	24N684	24N691	24N685	24A950
	SD 10 with size 10 enclosure	24A217	24A940	24A941	24A942	24A943	24A944	24A950

### **Mounting Channels**

Accommodates up to six reels. Includes all parts necessary to mount on wall or ceiling.

	Description	Reel Size	1 Reel	2 Reels	3 Reels	4 Reels	5 Reels	6 Reels
	Enclosed Reel Mounting Channel	SD 5 and SD 10	203521	203522	203523	203524	203525	203526
P	Open Reel Mounting Channel	SD 5	24N674	24N675	-	-	-	-
		SD 10	24A934	24A935	24A936	24A937	24A938	24A939
	I-Beam Mounting Bracket*	SD 5 and SD 10	204741 (x 2)			204741 (x 3)		

 $<sup>^{\</sup>star}$ Secures mounting channel to I-beam without drilling -2 are required for 1-3 reels, and 3 are required for 4-6 reels.



# **SD Series Cord and Light Reel Accessories**



#### Ordering Information

#### **Swivel Mounting Bracket**

Allows reel to swivel 120° with two lockable positions.

Reel Size	Part Number	Description
SD 5	24N814	Swivel mounting bracket for installation
SD 10	24N444	Swivel mounting bracket for installation

#### **Wall/Ceiling Mounting Bracket**

Allows you to slide the reel in and out for easy installation.

Reel Size	Part Number	Description
SD 5	24N686	Wall/ceiling easy mount plate kit
SD 10	24H193	Wall/ceiling easy mount plate kit

#### **Adapter Kits**

	Part Number	Description
	24P164	Spacer bracket for mounting a size 5 reel to an existing size 10 enclosure
	24P880	Spacer bracket for mounting a size 5 reel to an existing size 20 enclosure
4	24P881	Spacer bracket for mounting a size 10 reel to an existing size 20 enclosure
4	16N883	Clamping plate to mount a size 5 reel to an existing SD Series open channel

#### **Hands-Free Magnetic Clip**

Non-marring cover won't scratch vehicle finish. Snap onto light tube for hands-free operation.

	Part Number	Description
	16P999	Magnetic clip for light tube

















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#### **Extreme Performer**

The high-performance and heavy-duty XD Series Hose Reel is ideal for rugged indoor and outdoor use in truck dealerships, fleet maintenance, mining maintenance, public works garages, construction vehicle maintenance and service trucks. Features high-strength dual pedestals for reliable performance in extreme applications.

#### Spring Adjustment

Increase or decrease spring tension while reel is pressurized with fluid.

#### **Full-Flow Swivel**

Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.

#### Optional Adjustable Arm

Easily change to one of six arm positions to fit your application. Order with arm (HS models) or without (HN models).

#### **Durable Finish**

Baked-on enamel finish (four colours available) protects reel from corrosion.

#### Large Hose Capacity with Small Profile

Compact pedestal and spool fits into tight spaces and can accommodate 35-65 foot (10.7-19.8 meters) hose capacity for a wide variety of applications.

#### **Typical Applications**

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garage
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Mining
- · Lube trucks

#### Typical Fluids Handled

- · Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Anti-freeze
- Windshield washer fluid

#### **Technical Specifications**

-20°F to 190°F (-28°C to 87°C)
-20°F to 190°F (-28°C to 87°C)
-40°F to 200°F (-40°C to 93°C)
Zinc plated steel, anodized aluminium, nitrile rubber
Zinc plated steel, anodized aluminium, nitrile rubber
Zinc plated steel, polyurethane, steel
59 lb (26.5 kg)
52 lb (23.5 kg)
80 dB(A)
88 dB(A)
313431













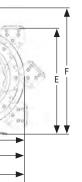




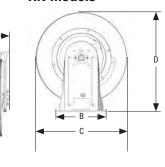
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Dime	Dimensions									
	HS Models (with	HN Models (without Arm)								
	XD 10	XD 20	XD 20							
Α	7.5 in (196 mm)	7.5 in (196 mm)	7.5 in (196 mm)							
В	16.2 in (412 mm)	18.1 in (460 mm)	18.1 in (460 mm)							
С	21.0 in (533 mm)	23.4 in (594 mm)	23.4 in (594 mm)							
D	18.0 in (457 mm)	20.0 in (508 mm)	20.0 in (508 mm)							
Е	18.5 in (470 mm)	21.0 in (533 mm)	21.0 in (533 mm)							
F	22.5 in (571 mm)	25.2 in (640 mm)	25.2 in (640 mm)							

#### **HS Models**



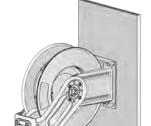
#### **HN Models**



#### **Typical Mounting Configurations**

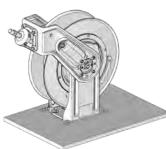
# Ceiling Mount





**Wall Mount** 

Bench/ Truck Mount



#### Truck Mount with Remote Mounted Roller Guide

























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#### XD 10/20 Reel Assembly Ordering Guide

XD Series reels are available in four colours and multiple thread types. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel colour and thread type.

	Thread Type					
Reel Colour	NPT	Available Outside North America Only				
	INPI	BSPP	BSPT			
White	А	J	Р			
Metallic Blue	В	K	R			
Yellow	F	N	U			
Desert Sand*	G	_	_			

\*Desert Sand not available on HN Models

**Order Example:** 

Arm in bench/truck mount position, XD 20, oil, 1/2 in ID hose, 50 ft hose length

HSM65# **Select your reel position:** 

**NPT Select your thread type:** 

Metallic Blue = "B" **Select your reel colour:** (from Reel Assembly Ordering

Guide – opposite)

**Order Part Number:** 



#### HS Models (with Adjustable Arm)

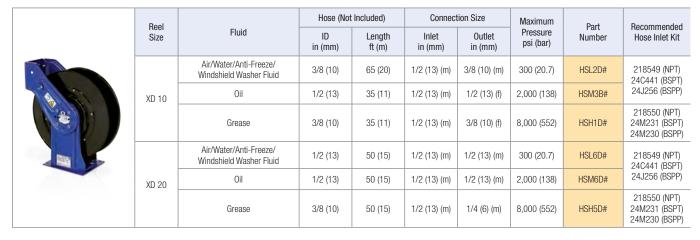
#### **Reel Assemblies**

Assembly includes hose, ball stop kit and roller guide. Required hose inlet kit sold separately.

	Reel		Hose (Ir	ncluded)	Connect	tion Size	Maximum	Assembly	Recommended
	Size	Fluid	ID in (mm)	Length ft (m)	Inlet	Outlet	Pressure psi (bar)	Part Number	Hose Inlet Kit
		Air/Water/Anti-Freeze/	3/8 (10)	50 (15)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	HSL25#	218549 (NPT)
		Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	HSL33#	24C441 (BSPT)
	XD 10	Oil	1/2 (13)	35 (11)	1/2 NPSM(M)	1/2 NPT(M)	2,000 (138)	HSM33#	24J256 (BSPP)
		Grease	1/4 (6)	50 (15)	3/8 NPSM(M)	1/4 NPT(M)	5,000 (552)	HSH15#	218550 (NPT) 24M231 (BSPT) 24M230 (BSPP)
	XD 20	Air/Water/Anti-Freeze/	3/8 (10)	65 (20)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	HSL56#	21.95.40 (NIDT)
		Windshield Washer Fluid	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	HSL65#	218549 (NPT) 24C441 (BSPT)
		Oil	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	2,000 (138)	HSM65#	24J256 (BSPP)
		Grease	3/8 (10)	50 (15)	1/2 NPSM(M)	1/4 NPT(M)	4,800 (331)	HSH55#	218550 (NPT) 24M231 (BSPT) 24M230 (BSPP)

#### **Bare Reels**

Required hose inlet kit sold separately. Fluid hose not included.



















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#### HN Models (without Adjustable Arm)

Required hose inlet kit sold separately.

	Reel Size	Fluid	Hose (Included)		Connection Size		Maximum	Bare Reel,	Recommended
			ID in (mm)	Length ft (m)	Inlet	Outlet	Pressure psi (bar)	Hose Assembly Part Number	Hose Inlet Kit
		Air/Water/ Anti-Freeze/ Windshield Washer Fluid	3/8 (10)	65 (20)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	HNL56#	218549 (NPT) 24C441 (BSPT) 24J256 (BSPP)
	XD 20		1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	HNL65#	
		Oil	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	2,000 (138)	HNM65#	, ,
		Grease	3/8 (10)	50 (15)	1/2 NPSM(M)	1/4 NPT(M)	4,800 (331)	HNH55#	218550 (NPT) 24M231 (BSPT) 24M230 (BSPP)

#### HN Model Specialty Packages (without Adjustable Arm)

Includes hose guide kit. Required hose inlet kit sold separately.

	Reel	Fluid	Hose (Included)		Connecti	Connection Size		Part Number			Hose	Recommended
	Size		ID in (mm)	Length ft (m)	Inlet	Outlet	Pressure psi (bar)	Metallic Blue	White	Yellow	Guide Kit (Included)	Hose Inlet Kit
	Α.	Air/Water/ Anti-Freeze/	3/8 (10)	65 (20)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	24C246	24C245	240247		
		Windshield Washer Fluid	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	24C249	24C248	24C250		218549 (NPT) 24C441 (BSPT) 24J256 (BSPP)
		Oil	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	2,000 (138)	24C252	24C251	24C253	15Y478	, ,
		Grease	3/8 (10)	50 (15)	1/2 NPSM(M)	1/4 NPT(M)	4,800 (331)	24C255	24C254	24C256		218550 (NPT) 24M231 (BSPT) 24M230 (BSPP)



## **XD Series Hose Reel Accessories**

















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#### **Ball Stop Kits**

XD HS models include ball stop kits. Order separately if ordering a bare reel or if needed with HN models.

	Part Number	Description
	222225	For 1/4 in (6 mm) ID hose (not compatible with XD30, 700 or 750)
	218340	For 1/4 in to 3/8 in (6 mm to 10 mm) ID hose (not for use with XD30, 700 or 750)
	218341	0.782 in ID used for 3/8 in and 1/2 in (10 mm and 13 mm) hose (not compatible with XD30, 700 or 750)
	237872	1.0 in ID used for 5/8 in (16 mm) hose
	237873	1.123 in ID used for 3/4 in (19 mm) hose
	237874	1.374 in ID used for 1 in (25 mm) hose
	24D132	For 3/8 in (10 mm) ID hose
	24D133	For 1/2 in (13 mm) ID hose

#### **Hose Inlet Kits**

A hose inlet kit is required when ordering an SD reel.

		Maximum Working Pressure psi (bar)	Size in (mm)	Length ft (m)	Part Number
		2,000 (137)	1/2 (13)		218549
	NPT	4,000 (276)	3/8 (10)	2 (0.6)	218550
		5,000 (345)	1/4 (6)		224417
	BSPP BSPT	2,000 (137)	1/2 (13)		24C441
The same of the sa		4,000 (276)	3/8 (10)	3 (0.9)	24M231
		5,000 (345)	1/4 (6)		24C442
		2,000 (137)	1/2 (13)		24J256
		4,000 (276)	3/8 (10)	3 (0.9)	24M230
		5,000 (345)	1/4 (6)		24J257

#### **Mounting Channels**

Accommodates up to six reels. Includes all parts necessary to mount on wall or ceiling.

Description	1 Reel	2 Reels	3 Reels	4 Reels	5 Reels	6 Reels
Enclosed Reel Mounting Channel	24N323	24N324	24N325	24N326	24N327	24N328
Open Reel Mounting Channel	24A219	24A220	24A221	24A222	24A222	24A222
I-Beam Mounting Bracket*	204741 (x 2)			204741 (x 3)		

 $^{\star}$ Secures mounting channel to I-beam without drilling -2 are required for 1-3 reels, and 3 are required for 4-6 reels.

















## **XD Series Hose Reel Accessories**

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#### **Enclosure Kits for One Reel**

Open mounting accommodates up to six reels. Includes all parts necessary to mount on wall or ceiling. Requires Enclosed Reel Mounting Channel.

	Reel Size	White	Metallic Blue	Red	Black	Dark Blue	Yellow	Required End-Caps (set of 2)
	XD 10	24N331	24N332	24N333	24N334	24N335	24N336	24A950
	XD 20	24N337	24N339	24N340	24N341	24N342	24N343	24A951

#### **Retrofit Adapter Kit**



Part Number	Description
24A224	Includes all parts to mount hose reel to existing 500 series mounting pattern
24C100	Includes all parts to convert SD10 hose reels to fit existing 250 series enclosures
24P914	Includes all parts to convert XD20 hose reels to fit existing 500 series enclosures

#### **Valve Hanger Kit**

1	0

Part Number	Description
224444	Mounts to side of reel to allow hanging of non-metered and high-flow dispensing valves

#### **Self-Adhesive Identification Label Set**

30	ANTONOMIC	52	Hermani,
	(545.10-46	52	ATT
0	BALLMON	2	DENVIO
0	SAN SHIP	0	CHARLE
0	BAR NO.	C	WATE
0	SAE 20W	5	DEA
0	DAE SOW	0	AIF

Part Number	Description
180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Anti-Freeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF

#### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
() GRACO	17S659	Red
() GRACO	17\$660	Blue
O GRACO	17S661	Green
O GRACO	17S662	Yellow
0 GRACO	17S663	White



























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### **High Capacity Reel**

Used in applications requiring longer-range dispense and higher capacity than the standard XD 10/20 series. Ideal for use on mobile service trucks, heavy construction and industrial plants.

#### Spring Adjustment

Increase or decrease spring tension while reel is pressurized with fluid.

#### **Full-Flow Swivel**

Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.

#### Optional Adjustable Arm

Easily change to one of seven arm positions to fit your application. Order with arm (HS models) or without (HN models).

#### **Durable Finish**

Baked-on enamel finish (four colours available) protects reel from corrosion.

#### Large Hose Capacity with Small Profile

Compact pedestal and spool fits into tight spaces and can accommodate 30-75 foot (9.1-22.8 meters) hose capacity for a wide variety of applications.

#### **Typical Applications**

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garage
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Mining
- · Lube trucks

#### Typical Fluids Handled

- · Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Grease
- Anti-freeze
- Windshield washer fluid
- Pressure wash
- Waste oil evacuation
- Diesel exhaust fluid (DEF)

chnical Specifications	
Operating Temperature Range	
Air/Water/Anti-Freeze/ Windshield Washer Fluid	-40°F to 180°F (-40°C to 82°C)
Oil	-40°F to 180°F (-40°C to 82°C)
Grease	-40°F to 180°F (-40°C to 82°C)
Pressure Wash	-20°F to 225°F (-28°C to 107°C)
Fuel/Evacuation	-40°F to 120°F (-40°C to 49°C)
Diesel Exhaust Fluid (DEF)	12°F to 140°F (-11°C to 60°C)
Wetted Parts (Bare Reel Only)	
Air/Water/Anti-Freeze/ Windshield Washer Fluid Reels	Nickel plated carbon steel, aluminium, Buna-N rubber, UHMWPE
Oil	Nickel plated carbon steel, aluminium, Buna-N rubber, UHMWPE
Grease	Nickel plated stainless steel, Buna-N rubber, UHMWPE
Pressure Wash	Nickel plated stainless steel, Buna-N rubber, UHMWPE
Fuel/Evacuation	Nickel plated carbon steel, aluminium, Buna-N rubber, UHMWPE
Diesel Exhaust Fluid (DEF)	Zinc plated steel, polyurethane, steel
Weight (Without Hose)	98 lb (44.5 kg)
Sound Pressure Level	85.8 dB(A)
Sound Power Level	94.9 dB(A)
Instruction Manual	3A0138



















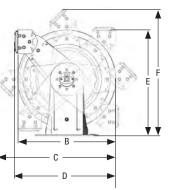




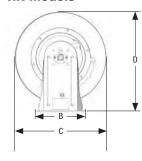
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Dimensions						
	HS Models (with Adjustable Arm)	HN Models (without Arm)				
Α	9.0 in (229 mm)	7.5 in (196 mm)				
В	21.5 in (546 mm)	18.1 in (460 mm)				
С	26.0 in (659 mm)	23.4 in (594 mm)				
D	22.1 in (562 mm)	20.0 in (508 mm)				
Е	23.1 in (588 mm)	21.0 in (533 mm)				
F	27.6 in (701 mm)	25.2 in (640 mm)				

#### **HS Models**



#### **HN Models**



#### **Typical Mounting Configurations**



























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#### **XD 30 Reel Assembly Ordering Guide**

XD Series reels are available in four colours and multiple thread types. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel colour and thread type.

	Thread Type					
Reel Colour	NPT	Available Outside North America Only				
	INFI	BSPP	BSPT			
White	А	J	Р			
Metallic Blue	В	K	R			
Yellow	F	U	N			
Desert Sand*	G	_	-			

<sup>\*</sup>Desert Sand not available on HN Models.

**Order Example:** 

Arm in overhead mount position, XD 30, oil, 3/4 in ID hose, 50 ft hose length

**Select your reel position:** 

HSMD5#

Select your thread type:

**NPT** 

Select your reel colour: (from Reel Assembly Ordering

Metallic Blue = "B"

Guide – opposite) **Order Part Number:** 

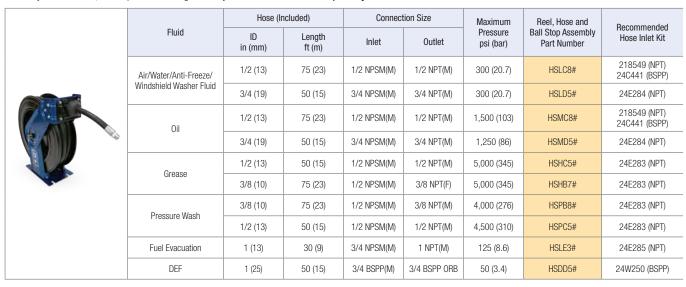
**HSMD5B** 



#### HS Models (with Adjustable Arm)

#### **Reel Assemblies**

Assembly includes hose, ball stop kit and roller guide. Required hose inlet kit sold separately.



#### **Bare Reels**

Required hose inlet kit sold separately.



Fluid	Hose (Not Included)		Connection Size		Maximum		Recommended
	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet p p		Part Number	Hose Inlet Kit
Oil	1/2 (13)	75 (23)	1/2 (13) (m)	1/2 (13) (m)	2,000 (138)	HSMCF#	218549 (NPT) 24C441 (BSPP)
	3/4 (19)	50 (15)	3/4 (19) (m)	3/4 (19) (m)	2,000 (138)	HSMDD#	24E284 (NPT)
Grease	1/2 (13)	50 (15)	1/2 (13) (m)	1/2 (13) (m)	5,000 (345)	HSHCD#	24E283 (NPT)
Pressure Wash	3/8 (10)	75 (23)	1/2 (13) (m)	3/8 (10) (m)	4,000 (276)	HSHFF#	24E283 (NPT)
DEF	3/4 (19)	50 (15)	3/4 (19) (m)	3/4 (19) ORB	50 (3.4)	HSDDD#	24W250 (BSPP)























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#### HN Models (without Adjustable Arm)

#### **Reels with Hose**

Required hose inlet kit sold separately.

		Hose (Ir	ncluded)	Connect	tion Size	Maximum	Reel and Hose	Recommended
	Fluid	ID in (mm)	Length ft (m)	Inlet	Outlet	Pressure psi (bar)	Assembly Part Number	Hose Inlet Kit
	Air/Water/Anti-Freeze/	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	HNLC8#	218549 (NPT) 24C441 (BSPP)
	Windshield Washer Fluid	3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	300 (20.7)	HNLD5#	24E284 (NPT)
	Oil	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	1,500 (103)	HNMC8#	218549 (NPT) 24C441 (BSPP)
		3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	1,250 (86)	HNMD5#	24E284 (NPT)
	Grease	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	5,000 (345)	HNHC5#	24E283 (NPT)
	Grease	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(F)	5,000 (345)	HNHB7#	24E283 (NPT)
/	Desarries Wash	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(M)	4,000 (276)	HNPB8#	24E283 (NPT)
	Pressure Wash	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	4,500 (310)	HNPC5#	24E283 (NPT)
	Fuel Evacuation	1 (13)	30 (9)	3/4 NPSM(M)	1 NPT(M)	125 (8.6)	HNLE3#	24E285 (NPT)

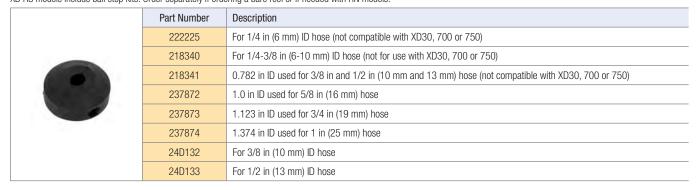
#### **Bare Reels**

Required hose inlet kit sold separately.

		Hose (Not	Included)	Connect	tion Size	Maximum		Recommended
1	Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	Part Number	Hose Inlet Kit
	Oil	3/4 (19)	50 (15)	3/4 (19) (m)	3/4 (19) (m)	2,000 (138)	HNMDD#	24E284 (NPT)
O a	Grease	1/2 (13)	50 (15)	1/2 (13) (m)	1/2 (13) (m)	5,000 (345)	HNHCD#	24E283 (NPT)
	Pressure Wash	3/8 (10)	75 (23)	1/2 (13) (m)	3/8 (10) (m)	4,000 (276)	HNHFF#	24E283 (NPT)

#### **Ball Stop Kits**

XD HS models include ball stop kits. Order separately if ordering a bare reel or if needed with HN models.





### **XD Series Hose Reel Accessories**





















30 / 30 HN



#### Ordering Information

#### **Hose Inlet Kits**

A hose inlet kit is required when ordering an XD reel.

	Part Number	Description
	218549	1/2 in (13 mm) hose inlet kit for air/water and oil. 2,000 psi (137 bar), 1/2 in NPT hose inlet ID, 24 in (610 mm) long
	24E284	3/4 in (19 mm) hose inlet kit for air/water and oil. 1,250 psi (86 bar), 3/4 in NPT hose inlet ID, 24 in (610 mm) long
	24E283	1/2 in (13 mm) hose inlet kit for grease or pressure wash. 5,000 psi (345 bar), 1/2 in NPT hose inlet ID, 24 in (610 mm) long
111	24E285	1/2 in (13 mm) hose inlet kit for fuel. 125 psi (8.6 bar), 1/4 in NPT hose inlet ID, 24 in (610 mm) long
	24W250	2 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow
	24W251	6 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow
	124875	2 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose)
	124581	6 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose)

#### **Retrofit Adapter Kit**



#### **Valve Hanger Kit**

Part Number	Description
224444	Mounts to side of reel to allow hanging of non-metered and high-flow dispensing valves

#### **Self-Adhesive Identification Label Set**

C AMING C AN	Part Number	Description
C MATCHES C DESCRIPTION  MATCH C CONSTRUCT  MATCH C MATCH  D BALCON C ORAN  MATCH  D BALCON C NAM  MATCH  M	180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Anti-Freeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF

#### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid

	Part Number	Description
() GRACO	17S659	Red
O GRACO	17\$660	Blue
O GRACO	17\$661	Green
O GRACO	17\$662	Yellow
O GRACO	17S663	White

















40 / 50



#### **Built-In Toughness**

Engineered to take a beating and still reliably perform in harsh environments so it's ready when you need it. Choose from more colours, thread types and hoses or choose the bare reel so you can customize it with your hose. You get a professional look, easier fit and better-performing equipment.

#### Extensive Hose Offering

Standard models come complete with factory-installed hoses on the reel. Large selection of optional reels to fit various applications.

#### **Full-Flow Swivel**

Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.

#### Rugged and Durable Body

Heavy-duty welded spool and ribbed frame for extra strength and toughness over the long haul.

#### Meets Worldwide Needs

Built standard with 90° elbow with NPT. BSPP or BSPT threads. 1-1/2 in models also include 2 in Victaulic™\*-style groove. Accessories attach without the need for adapters.

#### **Typical Applications**

- · Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garages
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Agriculture
- Lube trucks

#### Typical Fluids Handled

- · Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Anti-freeze
- · Waste oil evacuation

ес	hnical Specifications	
	Operating Temperature Range	
	Oil Reels – 1 inch	-20°F to 180°F (-28°C to 82°C)
	All Other Reels	-40°F to 180°F (-40°C to 82°C)
	Wetted Parts	Carbon steel, nickel plated cast iron, Buna-N rubber, FKM UHMWPE
	Maximum Recommended Mounting Height	15 ft (4.6 m)
	Sound Pressure Level	77.6 dB(A)
	Sound Power Level	86.8 dB(A)

\*Victaulic is a trademark of Victaulic Company of America.

### **Graco XD 40 and XD 50 Hose Reels**

### How to Select an XD 40/50 Hose Reel

## 2 Ways to Order!

#### **Option 1** – Reel with Hose

(Pages 232-233)

All models include the hose, hose guide and ball stop kit.



#### **Option 2 – Bare Reel**

(Pages 232-235)

Bare reel models do not include hose and ball stop kit.



#### Choose Your Accessories (Pages 232 and 244)



#### **Hose Inlet Kit**

A hose inlet is required for installation. They are appropriately sized for the hose reels based on type of fluid, hose size and pressure.



#### Support Arm

For additional support, add arm brackets to the reel. Required for overhead mounting applications.



#### **Mounting Kit**

Overhead mounting options available for XD 40 reels.



#### **Hose Kit**

Large selection of hoses appropriately sized for the hose reels based on type of fluid, hose size and pressure.



#### **Hose Inlet Kit**

A hose inlet is required for installation. They are appropriately sized for the hose reels based on type of fluid, hose size and pressure.



#### **Ball Stop Kit**

When the ball stop comes in contact with the hose guide, the hose is prohibited from rewinding.



#### Support Arm

For additional support, add arm brackets to the reel. Required for overhead mounting applications.



#### **Mounting Kit**

Overhead mounting options available for XD 40 reels.

# **∆**







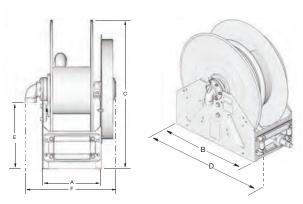








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Dimensions							
Model	Inlet/Outlet Size			Dimension	s in (mm)*		
Wodel	NPT(F)	А	В	С	D	Е	F
XD 4010 - Model 1	1 in/1 in	11.83 (300)	24 (610)	26.13 (664)	26.4 (671)	10.91 (277)	16.54 (420)
XD 4010 - Model 2	1 in/1 in	11.83 (300)	24 (610)	26.13 (664)	26.4 (671)	10.91 (277)	17.47 (444)
XD 5010	1 in/1 in	11.83 (300)	28.5 (724)	30.13 (765)	29.4 (747)	10.91 (277)	17.4 (444)
XD 5015	1-1/2 in/ 1-1/2 in	11.83 (300)	28.5 (724)	30.13 (765)	29.4 (747)	10.91 (277)	18.24 (463)

<sup>\*</sup>For complete list of dimensions, see Graco product manual 3A2990.

#### **Typical Mounting Configurations**



















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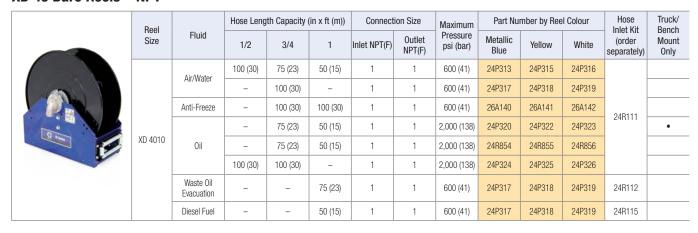
Ordering Information

#### XD 40 Reels with Hose - NPT

Includes hose, ball stop kit and hose guide. Required hose inlet kit sold separately.

Reel		Но	ose	Connect	ion Size	Maximum	Part Nu	mber by Reel	Colour	Hose Inlet Kit	Truck/Bench
Size	Fluid	ID in (mm)	Length ft (m)	Inlet NPT(F)	Outlet NPT(M)	Pressure psi (bar)	Metallic Blue	Yellow	White	(Order Separately)	Mount Only
		1/2 (13)	100 (30)	1	1/2	300 (21)	24P327	24P328	24P329		
	Air/Water	3/4 (19)	75 (23)	1	3/4	300 (21)	24P330	24P331	24P332		
	Air/water	3/4 (19)	100 (30)	1	3/4	300 (21)	24P333	24P334	24P335		
		1 (25)	50 (15)	1	1	300 (21)	24P336	24P337	24P338		
	Anti-Freeze	3/4 (19)	100 (30)	1	3/4	300 (21)	24P984	24P985	24P986		
		1/2 (13)	100 (30)	1	1/2	2,000 (138)	24P339	24P340	24P341	24R111	
XD 4010		3/4 (19)	75 (23)	1	3/4	1,500 (103)	24P342	24P343	24P344		•
	Oil	3/4 (19)	75 (23)	1	3/4	1,500 (103)	24R857	24R859	24R860		
	UII	3/4 (19)	100 (30)	1	3/4	1,500 (103)	24P345	24P346	24P347		
		1 (25)	50 (15)	1	1	1,275 (88)	24P348	24P349	24P350		•
		1 (25)	50 (15)	1	1	1,275 (88)	24R861	24R862	24R863		
	Waste Oil Evacuation	1 (25)	50 (15)	1	1	250 (17)	24P351	24P352	24P353	24R112	
	Diesel Fuel	1 (25)	50 (15)	1	1	250 (17)	24P354	24P355	24P356	24R115	

#### **XD 40 Bare Reels - NPT**



#### **Remember to Order!**





















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#### Ordering Information

#### XD 50 Reels with Hose - NPT

Includes hose, ball stop kit and hose guide. Required hose inlet kit sold separately.

Reel		Ho	se	Connect	ion Size	Maximum	Part Nu	ımber by Reel	Colour	Hose Inlet Kit
Size	Fluid	ID in (mm)	Length ft (m)	Inlet NPT(F)	Outlet NPT(M)	Pressure psi (bar)	Metallic Blue	Yellow	White	(Order Separately)
	Air/Water	1 (25)	75 (23)	1	1	300 (21)	24P470	24P471	24P472	
	All/Water	1 (25)	100 (30)	1	1	300 (21)	24P473	24P474	24P475	0.40444
VD 5010	Anti-Freeze	1 (25)	100 (30)	1	1	300 (21)	24P987	24P988	24P989	24R111
XD 5010	Oil	1 (25)	75 (23)	1	1	1,275 (88)	24P476	24P477	24P478	
	Diagol Fuel	1 (25)	75 (23)	1	1	250 (17)	24P485	24P486	24P487	24R115
	Diesel Fuel	1 (25)	100 (30)	1	1	250 (17)	24P488	24P489	24P490	248113
	Waste Oil	1-1/4 (32)	35 (11)	1-1/2	1-1/4	200 (14)	24P479	24P480	24P481	
	Evacuation	1-1/4 (32)	50 (15)	1-1/2	1-1/4	200 (14)	24P482	24P483	24P484	_
XD 5015**		1-1/4 (32)	35 (11)	1-1/2	1-1/4	250 (17)	24P491	24P492	24P493	
	Diesel Fuel	1-1/4 (32)	50 (15)	1-1/2	1-1/4	250 (17)	24P494	24P495	24P496	24R117
		1-1/2 (38)	50 (15)	1-1/2	1-1/2	150 (10)	24P497	24P498	24P499	1

<sup>\*\*</sup>Standard 2 inch Vitaulic $^{™}$ -style groove on inlet.

#### **XD 50 Bare Reels - NPT**

	Reel		Hose Leng	gth Capacity (	in x ft (m))	Connect	tion Size	Maximum	Part Nu	ımber by Reel	Colour	Hose Inlet Kit
	Size	Fluid	1	1-1/4	1-1/2	Inlet NPT(F)	Outlet NPT(F)	Pressure psi (bar)	Metallic Blue	Yellow	White	(order separately)
		Air/Water	100 (30)	_	-	1	1	600 (41)	24P455	24P456	24P457	
		Anti-Freeze	100 (30)	_	-	1	1	600 (41)	26A143	26A144	26A145	24R111
	XD 5010	Oil	75 (23)	-	-	1	1	2,000 (138)	24P458	24P459	24P460	
		Diesel Fuel	100 (30)	-	-	1	1	600 (41)	24P455	24P456	24P457	24R115
0.5		Diesei Fuei	75 (23)	-	-	1	1	600 (41)	24P464	24P465	24P466	246110
		Waste Oil Evacuation	_	50 (15)		1-1/2	1-1/2	600 (41)	24P461	24P462	24P463	-
	XD 5015**	Diesel Fuel	_	50 (15)	_	1-1/2	1-1/2	600 (41)	24P461	24P462	24P463	24R117
		DIESEL FUEL	-	50 (15)	50 (15)	1-1/2	1-1/2	600 (41)	24P467	24P468	24P469	Z4N11/

<sup>\*\*</sup>Standard 2 inch Vitaulic $^{\mathsf{\tiny{M}}}$ -style groove on inlet.

#### Remember to Order!



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### Ordering Information

### Available Outside North America Only

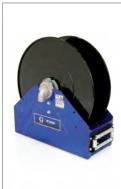
#### **XD 40 Bare Reels - BSPT**

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	Reel		Hose Leng	th Capacity	(in x ft (m))	Wiaxiiiuiii	mber by Ree	el Colour	Hose Inlet Kit	Truck/ Bench			
	Size	Fluid	1/2	3/4	1	Inlet NPT(F)	Outlet NPT(F)	Pressure psi (bar)	Metallic Blue	Yellow	White	(order separately)	Mount Only
		Air/Water	100 (30)	75 (23)	50 (15)	1	1	600 (41)	24P407	24P408	24P409		
	A	Air/Water	-	100 (30)	-	1	1	600 (41)	24P410	24P411	24P412		
		Oil	-	75 (23)	50 (15)	1	1	2,000 (138)	24P413	24P414	24P415	24R111	•
	XD 4010		-	75 (23)	50 (15)	1	1	2,000 (138)	24R867	24R868	24R869		
			100 (30)	100 (30)	-	1	1	2,000 (138)	24P416	24P417	24P418		
		Waste Oil Evacuation	-	-	75 (23)	1	1	600 (41)	24P410	24P411	24P412	24R112	
		Diesel Fuel	-	-	50 (15)	1	1	600 (41)	24P410	24P411	24P412	24R115	

### Available Outside North America Only

#### **XD 50 Bare Reels - BSPT**



	Reel		Hose Lenç	gth Capacity (i	n x ft (m))	Connect	ion Size	Maximum	Part Nu	mber by Reel	Colour	Hose Inlet Kit
	Size	Fluid	1	1-1/4	1-1/2	Inlet NPT(F)	Outlet NPT(F)	Pressure psi (bar)	Metallic Blue	Yellow	White	(order separately)
		Air/Water	100 (30)	-	-	1	1	600 (41)	24P549	24P550	24P551	24R111
	XD 5010	Oil	75 (23)	-	-	1	1	2,000 (138)	24P552	24P553	24P554	24n111
	VD 2010	Diesel Fuel	100 (30)	-	-	1	1	600 (41)	24P549	24P550	24P551	- 24R115
		Diesei Fuei	75 (23)	-	_	1	1	600 (41)	24P559	24P560	24P561	
	XD 5015**	Waste Oil Evacuation	-	50 (15)		1-1/2	1-1/2	600 (41)	24P555	24P556	24P558	-
			-	50 (15)	-	1-1/2	1-1/2	600 (41)	24P555	24P556	24P558	24R117
		Diesel Fuel	-	50 (15)	50 (15)	1-1/2	1-1/2	600 (41)	24P563	24P564	24P565	

<sup>\*\*</sup>Standard 2 inch Vitaulic $^{\text{TM}}$ -style groove on inlet.

#### Remember to Order!



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**Hose Inlet** 















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### Ordering Information



#### **XD 40 Bare Reels - BSPP**

	4		
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lb.			

Reel	Hose Length Capacity (in x ft (m)) Connection Size	ion Size	Maximum	Part Number by Reel Colour			Hose Inlet Kit	Truck/ Bench				
Size	Fluid	1/2	3/4	1	Inlet NPT(F)	Outlet NPT(F)	Pressure psi (bar)	Metallic Blue	Yellow	White	(order separately)	Mount Only
	Air/Water	100 (30)	75 (23)	50 (15)	1	1	600 (41)	24P364	24P366	24P367		
	All/Water	-	100 (30)	-	1	1	600 (41)	24P368	24P369	24P370		
		-	75 (23)	50 (15)	1	1	2,000 (138)	24P371	24P372	24P373	24R111	•
XD 4010	Oil	-	75 (23)	50 (15)	1	1	2,000 (138)	24R864	24R865	24R866		
		100 (30)	100 (30)	-	1	1	2,000 (138)	24P374	24P375	24P376		
	Waste Oil Evacuation	-	-	75 (23)	1	1	600 (41)	24P368	24P369	24P370	24R112	
	Diesel Fuel	-	-	50 (15)	1	1	600 (41)	24P368	24P369	24P370	24R115	

### Available Outside North America Only

#### **XD 50 Bare Reels - BSPP**



	Reel Size	Fluid	Hose Length Capacity (in x ft (m))			Connection Size		Maximum	Part Nu	Hose Inlet Kit			
			1	1-1/4	1-1/2	Inlet NPT(F)	Outlet NPT(F)	Pressure psi (bar)	Metallic Blue	Yellow	White	(order separately)	
		Air/Water	100 (30)	-	-	1	1	600 (41)	24P500	24P503	24P504	24R111	
	XD 5010	Oil	75 (23)	-	-	1	1	2,000 (138)	24P505	24P506	24P507	24n111	
		Diesel Fuel	100 (30)	-	-	1	1	600 (41)	24P500	24P503	24P504	24R115	
		Diesei Fuei	75 (23)	-	-	1	1	600 (41)	24P511	24P512	24P513		
	XD 5015**	Waste Oil Evacuation	-	50 (15)		1-1/2	1-1/2	600 (41)	24P508	24P509	24P510	-	
				-	50 (15)	-	1-1/2	1-1/2	600 (41)	24P508	24P509	24P510	24R117
		Diesel Fuel	-	50 (15)	50 (15)	1-1/2	1-1/2	600 (41)	24P514	24P515	24P516	24n11/	

<sup>\*\*</sup>Standard 2 inch Vitaulic™-style groove on inlet.

#### Remember to Order!









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### **XD Series Hose Reel Accessories**















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#### Ordering Information

#### **Ball Stop Kits**



Part Number	Description
237873	Ball stop kit used for 3/4 in (19 mm) hose
237874	Ball stop kit used for 1 in (25 mm) hose
24R060	Ball stop kit used for a 1-1/4 in (32 mm) hose
24R061	Ball stop kit used for a 1-1/2 in (38 mm) hose

#### **Hose Guides**



Part Number	Description
24R072	Roller guide kit with bracket for XD 40 and XD 60
24R074	Roller guide kit with bracket for XD 50

#### **Support Arm Kits**



Part Number	Description
24R076	Support arm kit for XD 40
24R077	Support arm kit for XD 50

#### **Mounting Kit**



Part Number	Description
237932	Overhead mounting kit for XD 40. Includes all parts needed for ceiling mounting 1 reel.

#### **Hose Inlet Kits**



Part Number	Description
24R111	1 in (25 mm) hose inlet kit for air/water and oil. 1,275 psi (88 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
24R112	1 in (25 mm) hose inlet kit for waste oil evacuation. 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
24R115	1 in (25 mm) hose inlet kit for diesel fuel. 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
24R117	1-1/2 in (38 mm) hose inlet kit for diesel fuel. 150 psi (10 bar), 1.5 in NPT hose inlet ID, 28 in (710 mm) long

#### **Self-Adhesive Identification Label Set**

C see on C norms	30	AND PERSONS	龙	-	
C same C serve	30	344,1046	25	Apr	
C sarum C marris	5	SAR IN SE	-50	1 months	
C sar um C meren	2	240 540	32	(committee)	
	62	SAE UP	0	WATER.	
	6	the name	0	146	

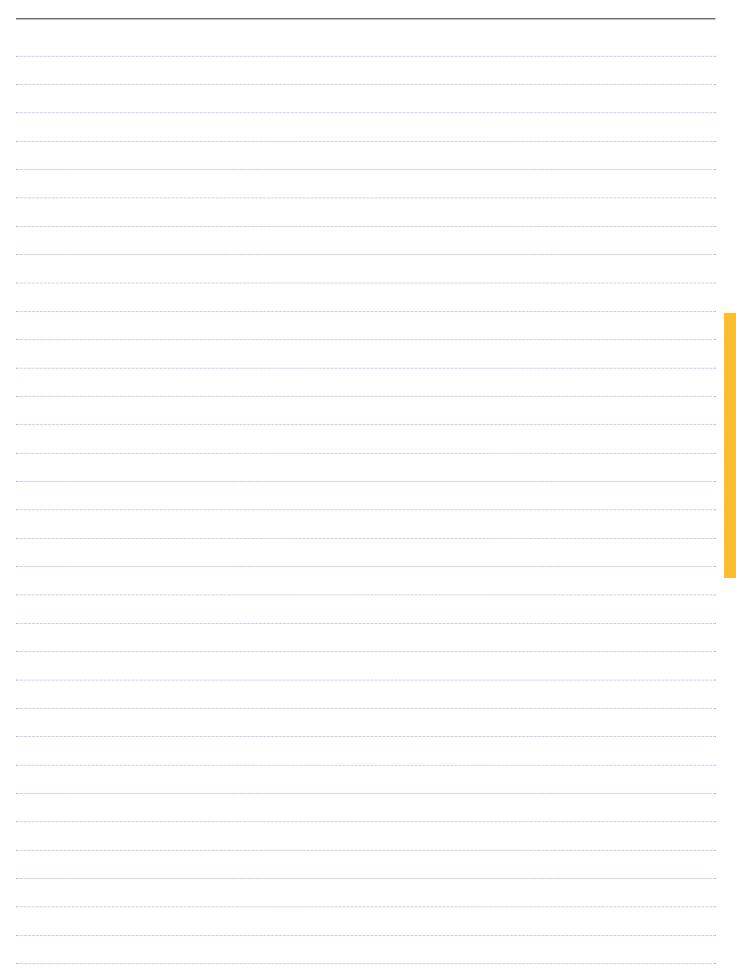
Part Number	Description
180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Anti-Freeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF

#### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid

	Part Number	Description
() GRACO	17\$659	Red
G GRACO	17\$660	Blue
O GRACO	17S661	Green
O GRACO	17\$662	Yellow
O GRACO	17S663	White

Notes
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### **XD Series Powered Bare Hose Reels**











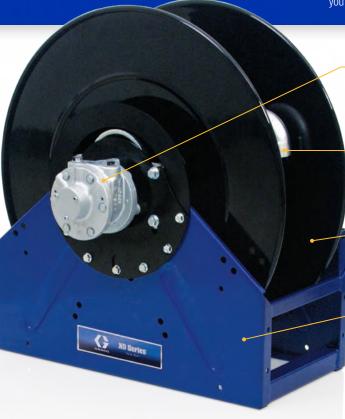




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#### Safe, Versatile Powered Hose Reels

We like to think of the XD motor rewind reels as super-powered. The innovative design is packed with features to help you work safer, smarter and faster. We demand extensive product testing, often exceeding industry standards to ensure you get the best product on the market.



#### Safe, Reliable Direct Drive and Gear Motors

Drive unit is clean and lubricated for life. No need to worry about greasy, exposed drive chains that need maintenance and can be dangerous to operators.

#### Easy System Integration

Easily change the inlet and motor direction to give you the option of a right- or left-hand flow orientation.

#### Heavy-duty Welded Spool

Built to handle the weight of heavy hoses. Designed to surround and protect the drive unit from the elements to promote longer-lasting, safer operation.

#### Rugged and Durable Body

Heavy-duty one piece welded frame is engineered to flex under extreme operating conditions and is stronger than bolted frames that can loosen with use. Individually painted and powder-coated components have superior corrosion resistance over assembled and painted products.

#### **Typical Applications**

- · Heavy-duty truck dealers
- Fleet maintenance
- · Mining maintenance
- · Public works garages
- · Construction vehicle maintenance
- · Heavy-duty mobile service trucks
- Agriculture
- · Lube trucks

#### Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Grease
- · Waste oil evacuation

#### **Technical Specifications**

Operating Temperature Range						
Motorless Reels	-40°F to 180°F (-40°C to 82°C)					
Air/Water Applications	-40°F to 180°F (-40°C to 82°C)					
Waste Oil Evacuation Applications	-40°F to 180°F (-40°C to 82°C)					
Oil Applications	-40°F to 180°F (-40°C to 82°C)					
Grease Applications	0°F to 180°F (-18°C to 82°C)					
Diesel Fuel Applications	-40°F to 140°F (-40°C to 60°C)					
Wetted Parts	Nickel plated cast iron, cast iron, Buna-N rubber, polyethylene					
Electric and Hydraulic Motors Sound Pressure Level	<80 dB(A)					
Pneumatic Motors Sound Pressure Level	84.6 dB(A)					
Pneumatic Motors Sound Power Level	89.9 dB(A)					
Instruction Manual	332630					









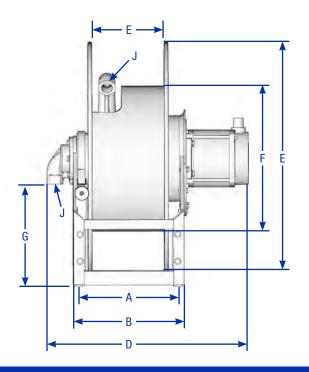








60 / 70 / 80



#### Dimensions Reference dimension "D" for specific motor type Dimensions in (mm) Inlet/Outlet Α D Model Size (J) NPT(F) (Mounting В С Ε F Pneumatic Electric Hydraulic Holes) XD6010 1 in/1 in 10.45 (256) 11.8 (300) 10.9 (277) 20.4 (519) 15.7 (400) 21.6 (547) 7.8 (198) 15.5 (394) XD7010 1 in/1 in 12.95 (329) 14.3 (363) 10.9 (277) 22.9 (583) 18.2 (463) 24.1 (611) 10 (254) 10 (254) 1-1/2 in/ XD7015 12.95 (329) 14.3 (363) 10.9 (277) 23.7 (603) 19 (483) 24.8 (631) 10 (254) 10 (254) 1-1/2 in XD7020 2 in/2 in 12.95 (329) 14.3 (363) 10.2 (259) 24.1 (613) 19.4 (493) 25.2 (641) 10 (254) 10 (254) XD8010 1 in/1 in 18 (457) 20.68 (525) 22.1 (561) 13.4 (340) 30.7 (779) 26 (659) 31.8 (807) 15.5 (394) 1-1/2 in/ XD8015 20.68 (525) 22.1 (561) 13.4 (340) 31.4 (799) 26.7 (679) 32.5 (827) 18 (457) 15.5 (394) 1-1/2 in

31.9 (809)

12.7 (323)

#### **Typical Mounting Configurations**

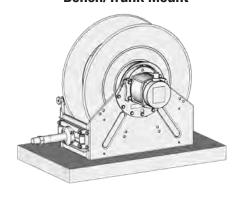
2 in/2 in

XD8020

#### **Bench/Trunk Mount**

22.1 (561)

20.68 (525)



#### **Truck Mount with Remote Mounted Roller Guide**

27.1 (689)

33 (837)

18 (457)

15.5 (394)



### **Graco XD Series Powered Hose Reels**

### **How to Select an XD Powered Bare Hose Reel**

#### A Complete Family of Motor Rewind Hose Reels

The innovative design of the XD reel family is packed with features to help you work safer, smarter and faster. Direct-drive motor options include hydraulic, pneumatic and electric for air, water, oil, grease, fuel dispense and waste oil evacuation applications. Use this selection chart to configure the XD reel to suit your needs.







#### Specify the Hose Fluid Type and Capacity

Determine your fluid type and capacity before selecting your reel.

lu	luid Type								
	Air/Water								
	Anti-Freeze								
_	D								

☐ Petroleum- and Synthetic-Based Oils ☐ Waste Oil

□ 1/2 (13) □ 1 (25) □ 1-1/2 (38)

**Hose ID** in (mm)

> □ 50 (15) □ 75 (23) □ 100 (30)

ft (m)

**Hose Length** 

2 (51) □ 150 (46)

□ Diesel Fuel

#### **Select Your Drive Type and Frame**

Reels can be ordered with a motor or without. If you choose a model without a motor, you must purchase the motor separately.

- ☐ Order Reel with Motor Included (Pages 242-244)
- ☐ Order Reel and Motor Separately (Page 245)
  - □ Pneumatic Motor
  - ☐ Hydraulic Motor
  - ☐ Electric Motor ☐ 12 VDC, 1/2 HP
    - □ 24 VDC, 2/3 HP □ 115 VAC, 0.40 HP
    - □ 12 VDC, 2/3 HP
    - □ 24 VDC, 1/2 HP



FOR INSTALLATION

REQUIRED

#### Choose Your Controls (Pages 245-246)

- □ Pneumatic Motor
  - ☐ Pneumatic 2-position, 3-way valve
- ☐ Hydraulic Motor
  - ☐ 12 VDC electric control of hydraulic motor, 3-position, 4-way valve
  - □ 12 VDC electric control of hydraulic motor with switch, 3-position, 4-way valve
  - ☐ 24 VDC electric control of hydraulic motor, 3-position, 4-way valve
  - ☐ 24 VDC electric control of hydraulic motor with switch, 3-position, 4-way valve
- □ Electric Motor
  - ☐ Hazardous location on/off button
  - ☐ 12 VDC intermittent-duty solenoid
  - ☐ 24 VDC intermittent-duty solenoid
  - ☐ Manual reset button circuit breaker (25 or 50 amp)



### **Choose Your Reel Size**

□ XD 60 □ XD 70 □ XD 80

#### **Choose Your Reel Colour**

Select from Blue. Yellow or White.

☐ Yellow

□ White



### Hose Inlet Kit (Page 247)

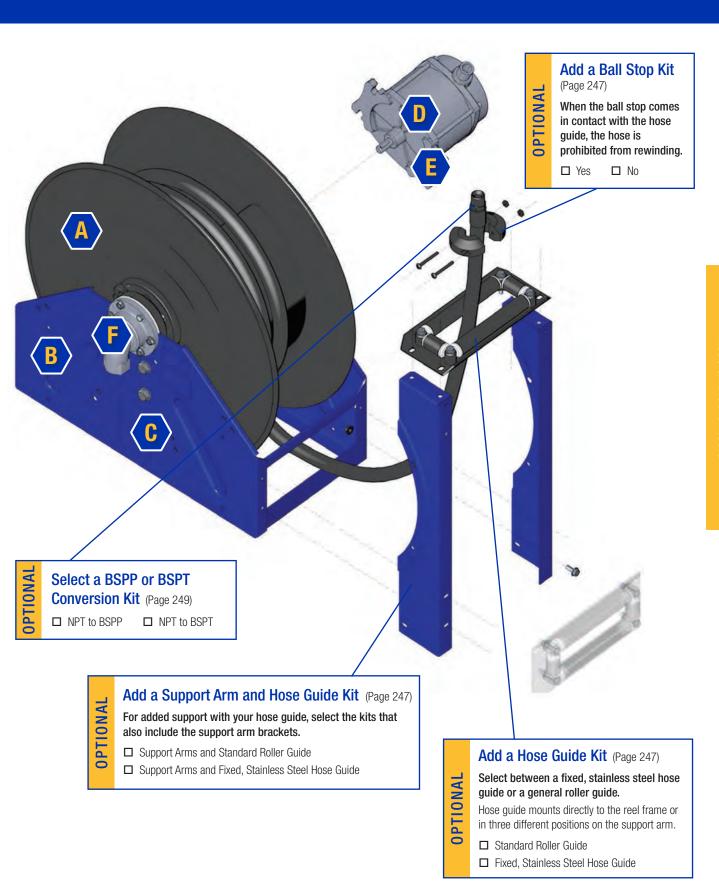
A hose inlet is required for installation. They are appropriately sized for the hose reels based on type of fluid, hose size and pressure.

Note: All 1-1/2 in (38 mm) hose reels include a 2 in (51 mm) Victaulic-style groove on inlet. If you are using these reels, it is recommended to order an inlet kit from Graco.

- ☐ Yes (required for installation)
- ☐ No (will supply my own hose inlet kit)





















60 / 70 / 80



Ordering Information

### Reel with Motor - 1 in (25 mm) Inlet/Outlet **XD 60 Reels**

	Reel	FI 17	Mala	Hose Ca	pacity of Re	eel ft (m)	Maximum	Weight	Inlet/ Outlet	Reel Pa	t Number b	y Colour		Hose Accessories be ordered separately)
	Size	Fluid	Motor	Но	se ID in (m	m)	Pressure psi (bar)	lb (kg)	Size	Metallic	Yellow	White	Hose	Hose
				1/2 (13)	3/4 (19)	1 (25)	· ` ` ′		NPT(F)	Blue		-	Inlet Kit	
			Pneumatic	100 (30)	100 (30)	50 (15)	600 (41)	123 (56)		24R419	24R420	24R421		126359 – 1/2 in x 100 ft (13 mm x 30 m)
			Hydraulic	100 (30)	100 (30)	50 (15)	600 (41)	101 (45)		24R414	24R415	24R416		126360 – 3/4 in x 75 ft
		Air/ Water	12 VDC Electric, 1/2 HP	100 (30)	100 (30)	50 (15)	600 (41)	133 (60)	1 in/1 in (25 mm/	24R404	24R405	24R406		(19 mm x 23 m)
		VValoi	24 VDC Electric, 1/2 HP	100 (30)	100 (30)	50 (15)	600 (41)	133 (60)	25 mm)	24R407	24R408	24R409		126361 – 3/4 in x 100 ft (19 mm x 30 m)
			115 VAC Electric	100 (30)	100 (30)	50 (15)	600 (41)	133 (60)		24R410	24R412	24R413	040444	126362 – 1 in x 50 ft (25 mm x 15 m)
			Pneumatic	100 (30)	100 (30)	50 (15)	3,000 (207)	125 (56)		24R434	24R435	24R436	24R111	126375 – 1/2 in x 100 ft
			Hydraulic	100 (30)	100 (30)	50 (15)	3,000 (207)	103 (47)		24R431	24R432	24R433		(13 mm x 30 m)
		Oil	12 VDC Electric, 1/2 HP	100 (30)	100 (30)	50 (15)	3,000 (207)	134 (61)	1 in/1 in (25 mm/ 25 mm)	24R422	24R423	24R424		126376 – 3/4 in x 75 ft (19 mm x 23 m)
		Oil	24 VDC Electric, 1/2 HP	100 (30)	100 (30)	50 (15)	3,000 (207)	134 (61)		24R425	24R426	24R427		126377 – 3/4 in x 100 ft (19 mm x 30 m)
.2			115 VAC Electric	100 (30)	100 (30)	50 (15)	3,000 (207)	134 (61)		24R428	24R429	24R430		126503 – 1 in x 50 ft (25 mm x 15 m)
			Pneumatic	100 (30)	100 (30)	50 (15)	600 (41)	123 (56)		24R419	24R420	24R421		
100		Diesel Fuel	Hydraulic	100 (30)	100 (30)	50 (15)	600 (41)	101 (45)		24R414	24R415	24R416		
© same	XD 6010		12 VDC Electric, 1/2 HP	100 (30)	100 (30)	50 (15)	600 (41)	133 (60)	1 in/1 in (25 mm/ 25 mm)	24R404	24R405	24R406	24R115	24R102 – 1 in x 50 ft (25 mm x 15 m)
			24 VDC Electric, 1/2 HP	100 (30)	100 (30)	50 (15)	600 (41)	133 (60)		24R407	24R408	24R409		(23
			115 VAC Electric	100 (30)	100 (30)	50 (15)	600 (41)	133 (60)		24R410	24R412	24R413		
			Pneumatic	_	-	50 (15)	600 (41)	123 (56)		24R419	24R420	24R421		
			Hydraulic	_	-	50 (15)	600 (41)	101 (45)		24R414	24R415	24R416		
		Waste Oil	12 VDC Electric, 1/2 HP	-	_	50 (15)	600 (41)	133 (60)	1 in/1 in (25 mm/	24R404	24R405	24R406	24R112	126379 – 1 in x 50 ft (25 mm x 15 m)
		Evac.	24 VDC Electric, 1/2 HP	-	-	50 (15)	600 (41)	133 (60)	25 mm)	24R407	24R408	24R409		(23 11111 X 13 111)
			115 VAC Electric	_	_	50 (15)	600 (41)	133 (60)	-	24R410	24R412	24R413		
			Pneumatic	-	-	50 (15)	3,000 (207)	125 (75)		24R434	24R435	24R436		
			Hydraulic	_	_	50 (15)	3,000 (207)	103 (47)	1	24R431	24R432	24R433		
		Grease	12 VDC Electric, 1/2 HP	-	-	50 (15)	3,000 (207)	134 (61)	1 in/1 in (25 mm/	24R422	24R423	24R424		_
			24 VDC Electric, 1/2 HP	-	-	50 (15)	3,000 (207)	134 (61)	25 mm)	24R425	24R426	24R427		
			115 VAC Electric	-	-	50 (15)	3,000 (207)	134 (61)		24R428	24R429	24R430		

#### **Remember to Order!**



See page 247



See page 247























60 / 70 / 80



Ordering Information

### Reel with Motor - 1 in (25 mm) Inlet/Outlet

#### **XD 70 / XD 80 Reels**

	Reel	FI '-		Hose Capacity of Reel ft (m)	Maximum	Weight	Inlet/ Outlet	Reel Pa	rt Number b	y Colour		Hose Accessories be ordered separately)	
	Size	Fluid	Motor	Hose ID 1 in (25 mm)	Pressure psi (bar)	lb (kg)	Size NPT(F)	Metallic Blue	Yellow	White	Hose Inlet Kit	Hose	
			Pneumatic	100 (30)	600 (41)	122 (55)		24R449	24R450	24R451			
			Hydraulic	100 (30)	600 (41)	100 (45)	1 in/1 in	24R446	24R447	24R448		126363 – 1 in x 75 ft (25 mm x 23 m)	
		Air/ Water	12 VDC Electric, 1/2 HP	100 (30)	600 (41)	132 (60)	(25 mm/	24R437	24R438	24R439		126364 – 1 in x 100 ft	
			24 VDC Electric, 1/2 HP	100 (30)	600 (41)	132 (60)	25 mm)	24R440	24R441	24R442		(25 mm x 30 m)	
			115 VAC Electric	100 (30)	600 (41)	132 (60)		24R443	24R444	24R445	24R111		
			Pneumatic	100 (30)	3,000 (207)	100 (56)		24R464	24R465	24R466	24n111		
			Hydraulic	100 (30)	3,000 (207)	102 (46)	1 in/1 in	24R461	24R462	24R463		126504 – 1 in x 75 ft (25 mm x 23 m)	
	XD 7010	Oil	12 VDC Electric, 1/2 HP	100 (30)	3,000 (207)	133 (60)	(25 mm/	24R452	24R453	24R454		126505 – 1 in x 100 ft	
			24 VDC Electric, 1/2 HP	100 (30)	3,000 (207)	133 (60)	25 mm)	24R455	24R456	24R457		(25 mm x 30 m)	
			115 VAC Electric	100 (30)	3,000 (207)	133 (60)		24R458	24R459	24R460			
			Pneumatic	100 (30)	600 (41)	122 (55)		24R449	24R450	24R451		24R103 – 1 in x 75 ft (25 mm x 23 m) 24R106 – 1 in x 100 ft (25 mm x 30 m)	
			Hydraulic	100 (30)	600 (41)	100 (45)	1 in/1 in	24R446	24R447	24R448	24R115		
		Diesel Fuel	12 VDC Electric, 1/2 HP	100 (30)	600 (41)	132 (60)	(25 mm/	24R437	24R438	24R439			
			24 VDC Electric, 1/2 HP	100 (30)	600 (41)	132 (60)	25 mm)	24R440	24R441	24R442			
			115 VAC Electric	100 (30)	600 (41)	132 (60)		24R443	24R444 24R44	24R445			
1			Pneumatic	150 (46)	600 (41)	164 (74)	1 in/1 in	24R531	24R532	24R533			
		Air/ Water	Hydraulic	150 (46)	600 (41)	142 (64)		24R528	24R529	24R530		-	
			12 VDC Electric, 1/2 HP	150 (46)	600 (41)	173 (78)	(25 mm/	24R519	24R520	24R521			
			24 VDC Electric, 1/2 HP	150 (46)	600 (41)	173 (78)	25 mm)	24R522	24R523	24R524			
			115 VAC Electric	150 (46)	600 (41)	173 (78)		24R525	24R526	24R527	040444		
			Pneumatic	150 (46)	3,000 (207)	165 (75)		24R546	24R547	24R548	24R111		
			Hydraulic	150 (46)	3,000 (207)	143 (65)	1 in/1 in	24R543	24R544	24R545			
	XD 8010	Oil	12 VDC Electric, 1/2 HP	150 (46)	3,000 (207)	175 (79)	(25 mm/	24R534	24R535	24R536		-	
			24 VDC Electric, 1/2 HP	150 (46)	3,000 (207)	175 (79)	25 mm)	24R537	24R538	24R539			
			115 VAC Electric	150 (46)	3,000 (207)	175 (79)		24R540	24R541	24R542			
			Pneumatic	150 (46)	600 (41)	164 (74)		24R531	24R532	24R533			
			Hydraulic	150 (46)	600 (41)	142 (64)	1 in/1 in	24R528	24R529	24R530			
		Diesel Fuel	12 VAC Electric, 1/2 HP	150 (46)	600 (41)	173 (78)	(25 mm/	24R519	24R520	24R521	24R115	24T252 – 1 in x 150 ft (25 mm x 46 m)	
			24 VAC Electric, 1/2 HP	150 (46)	600 (41)	173 (78)	25 mm)	24R522	24R523	24R524		(25 IIIIII X 46 III)	
			115 VAC Electric	150 (46)	600 (41)	173 (78)		24R525	24R526	24R527			

#### **Remember to Order!**





See page 247





























Ordering Information

### Reel with Motor - 1-1/2 in (38 mm) Inlet/Outlet **XD 70 / XD 80 Reels**

Reel	Fluid	Motor	Hose Capacity of Reel ft (m)	Maximum Pressure	Weight	Inlet/ Outlet	Reel Par	t Number b	y Colour	(Mus	Hose Accessories t be ordered separately)
Size	Tiulu	IVIOLOI	Hose ID 1-1/2 in (38 mm)	psi (bar)	lb (kg)	Size NPT(F)	Metallic Blue	Yellow	White	Hose Inlet Kit	Hose
		Pneumatic	65 (20)	600 (41)	100 (56)		24R516	24R517	24R518		
		Hydraulic	65 (20)	600 (41)	102 (46)		24R512	24R513	24R515		24R110 – 1-1/4 in x 50 ft (32 mm x 15 m)
	Diesel Fuel	12 VDC Electric, 1/2 HP	65 (20)	600 (41)	133 (60)			24R504	24R505	24R117	24R114 – 1-1/2 in x 50 ft
		24 VDC Electric, 1/2 HP	65 (20)	600 (41)	133 (60)			24R507	24R508		(38 mm x 15 m)
XD 7015		115 VAC Electric	65 (20)	600 (41)	133 (60)		24R509	24R510	24R511		
VD 1012		Pneumatic	50 (15)	600 (41)	100 (56)		24R516	24R517	24R518		126380 – 1-1/4 in x 35 ft
	Waste Oil Evac.	Hydraulic	50 (15)	600 (41)	102 (46)	1-1/2 in/	24R512	24R513	24R515		(32 mm x 11 m)
		12 VDC Electric, 1/2 HP	50 (15)	600 (41)	133 (60)	1-1/2 in (38 mm/	24R503	24R504	24R505	] –	126688 – 1-1/4 in x 50 ft (32 mm x 15 m)
		24 VDC Electric, 1/2 HP	50 (15)	600 (41)	133 (60)	38 mm)	24R506	24R507	24R508		127173 – 1-1/2 in x 50 ft
		115 VAC Electric	50 (15)	600 (41)	133 (60)		24R509	24R510	24R511		(38 mm x 15 m)
		Pneumatic	100 (50)	600 (41)	165 (75)		24R561	24R562	24R563		
		Hydraulic	100 (50)	600 (41)	143 (65)		24R558	24R559	24R560		
XD 8015	Diesel Fuel	12 VDC Electric, 1/2 HP	100 (50)	600 (41)	175 (79)		24R549	24R550	24R551	24R117	24T253 – 1-1/2 in x 100 ft (38 mm x 30 m)
	. 301	24 VDC Electric, 1/2 HP	100 (50)	600 (41)	175 (79)		24R552	24R553	24R554		(55 × 55 11)
		115 VAC Electric	100 (50)	600 (41)	175 (79)		24R555	24R556	24R557		

### Reel with Motor - 2 in (51 mm) Inlet/Outlet **XD 70 / XD 80 Reels**

	Reel	Fluid	Motor	Hose Capacity of Reel ft (m)	Maximum	Weight	Inlet/ Outlet	Reel Par	rt Number b	y Colour	Hose Accessories (Must be ordered separately)	
	Size	Size	INIOTOL	Hose ID 2 in (51 mm)	Pressure psi (bar)	lb (kg)	Size NPT(F)	Metallic Blue	Yellow	White	Hose Inlet Kit	Hose
			Pneumatic	33 (10)	600 (41)	128 (58)	2 in/2 in (51 mm/	24T023	24T024	24T025		
			Hydraulic	33 (10)	600 (41)	106 (48)		24T020	24T021	24T022		127167 – 2 in x 33 ft (51 mm x 10 m)
	XD 7020	Diesel	12 VDC Electric, 1/2 HP	33 (10)	600 (41)	137 (62)		24T011	24T012	24T013	- 24R118	
			24 VDC Electric, 1/2 HP	33 (10)	600 (41)	137 (62)		24T014	24T015	24T016		
			115 VAC Electric	33 (10)	600 (41)	137 (62)		24T017	24T018	24T019		
0		Fuel	Pneumatic	50 (15)	600 (41)	169 (76)	51 mm)	24R576	24R577	24R578		24T254 – 2 in x 50 ft (51 mm x 15 m)
		0	Hydraulic	50 (15)	600 (41)	147 (67)		24R573	24R574	24R575		
	XD 8020		12 VDC Electric, 1/2 HP	50 (15)	600 (41)	179 (81)		24R564	24R565	24R566		
			24 VDC Electric, 1/2 HP	50 (15)	600 (41)	179 (81)		24R567	24R568	24R569		
			115 VAC Electric	50 (15)	600 (41)	179 (81)		24R570	24R571	24R572		

#### Remember to Order!































60 / 70 / 80



#### **Reel Frames Only**

#### XD 60 / XD 70 / XD 80 Reels

Motor is not included and must be purchased separately.

	Reel	Fluid		Hose Ca	pacity of Re	eel ft (m)		Maximum	Weight lb (kg)	Inlet/ Outlet	Reel Part Number by Colour		
	Size			Но	se ID in (m	m)		Pressure psi (bar)		Size	Metallic	Yellow	White
			1/2 (13)	3/4 (19)	1 (25)	1-1/2 (38)	2 (51)	por (bur)		NPT(F)	Blue	IGIIOW	AAIIIIG
		Air/Water/ Diesel Fuel	100 (30)	100 (30)	50 (15)	_	-	600 (41)	87 (39)		24T104	24T105	24T106
	XD 6010	Oil	100 (30)	100 (30)	50 (15)	-	_	3,000 (207)	88 (40)		24T107	24T108	24T109
		Waste Oil Evac.	-	_	50 (15)	-	-	600 (41)	87 (39)		24T104	24T105	24T106
		Grease	-	_	50 (15)	-	-	600 (41)	87 (39)	1 in/1 in	24T104	24T105	24T106
	XD 7010	Air/Water/ Diesel Fuel	-	-	100 (30)	-	-	600 (41)	86 (39)	(25 mm/25 mm)	24T110	24T111	24T112
		Oil	-	_	100 (30)	-	-	3,000 (207)	87 (39)		24T113	24T114	24T115
	XD 8010	Air/Water/ Diesel Fuel	-	-	150 (46)	-	-	600 (41)	127 (58)		24T122	24T123	24T124
		Oil	-	_	150 (46)	-	_	3,000 (207)	129 (58)		24T125	24T126	24T127
	XD 7015	Waste Oil Evac.	-	-	-	50 (15)	-	600 (41)	87 (39)	1-1/2 in/	24T116	24T117	24T118
	VD /012		-	-	-	65 (20)	-	600 (41)	87 (39)	1-1/2 in	24T116	24T117	24T118
	XD 8015	Diesel Fuel	_	_	_	100 (30)	-	600 (41)	129 (58)	(38 mm/38 mm)	24T128	24T129	24T130
	XD 7020	DIESEI LUEI	-	-	-	-	33 (10)	600 (41)	91 (41)	2 in/2 in	24T119	24T120	24T121
	XD 8020		-	-	-	-	50 (15)	600 (41)	133 (60)	(51 mm/51 mm)	24T131	24T132	24T133

#### **Motor Assemblies – Pair with Frame-Only Models**

	Part Number	Description
	24T892	Pneumatic motor assembly, reversible type. For installing motor to bare XD reel.
	24T891	Hydraulic motor assembly, reversible type. For installing motor to bare XD reel.
	24T886	12 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame.
	24T910	12 VDC, 2/3 HP motor assembly, reversible type. For installing motor to bare XD frame.
	24T888	24 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame.
3	24T911	24 VDC, 2/3 HP motor assembly, reversible type. For installing motor to bare XD frame.
7	24T889	115 VAC, 0.40 HP motor assembly, reversible type. For installing motor to bare XD frame.

#### **Remember to Order!**





# **XD Series Bare Hose Reel Accessories**

















>>> Ordering Information

#### **Motor Controls (Required)**

6	Part Number	Description
	127271	Pneumatic valve to control XD 60/70/80 pneumatic powered hose reels. 2-position, 3-way valve.
0	24T875	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 12 VDC. 3-position, 4-way valve.
	24T876	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 24 VDC. 3-position, 4-way valve.
	127224	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 12V, includes switch. 3-position, 4-way valve.
	127225	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 24V, includes switch. 3-position, 4-way valve.
	127214	Momentary push-button on/off switch with red rubber cap. Use for 12 or 24 VDC.
	127217	Hazardous-location push-button on/off switch. Use for 12 and 24 VDC.
21.	127223	Hazardous-location push-button on/off switch. Use for 115 and 220 VAC.
	127218	Hazardous-location junction box
n b	127219	12 VDC intermittent-duty solenoid recommended for activating rewind on 12 VDC motor
	127220	24 VDC intermittent-duty solenoid recommended for activating rewind on 24 VDC motor
	127221	Manual-reset push-button circuit breaker, 50 amp rating
30	127222	Manual-reset push-button circuit breaker, 25 amp rating

















# XD Series Bare Hose Reel Accessories



#### Ordering Information

#### **Ball Stop Kits**

Part Number	Description
237873	Ball stop kit used for 3/4 in (19 mm) hose
237874	Ball stop kit used for 1 in (25 mm) hose
24R060	Ball stop kit used for 1.25 in (32 mm) hose
24R061	Ball stop kit used for 1.5 in (38 mm) hose

#### **Hose Guide**

	Part Number	Description
	24T327	Stainless steel hose guide for XD 60
	24T328	Stainless steel hose guide for XD 70
	24T329	Stainless steel hose guide for XD 80
	24R072	Roller guide kit with bracket for XD 40 and XD 60
	24T330	Roller guide kit with bracket for XD 70
	24T331	Roller guide kit with bracket for XD 80

#### **Support Arm Kit with Hose Guide**

	Part Number	Description
	24T332	Arm kit with stainless steel hose guide for XD 60 (24T327)
1 /	24T333	Arm kit with stainless steel hose guide for XD 70 (24T328)
	24T334	Arm kit with stainless steel hose guide for XD 80 (24T329)
17	24T335	Arm kit with roller guide for XD 60 (24R072)
	24T336	Arm kit with roller guide for XD 70 (24T330)
	24T337	Arm kit with roller guide for XD 80 (24T331)

#### **Hose Inlet Kits**

	Part Number	Description
	24R111	1 in (25 mm) hose inlet kit for air/water and oil 1,275 psi (88 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
	24R112	1 in (25 mm) hose inlet kit for waste oil evacuation 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
	24R115	1 in (25 mm) hose inlet kit for diesel fuel 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
	24R117	1-1/2 in (38 mm) hose inlet kit for diesel fuel 150 psi (10 bar), 1-1/2 in NPT hose inlet ID, 28 in (710 mm) long
	24R118	2 in (51 mm) hose inlet kit for diesel fuel 150 psi (10 bar), 2 in NPT hose inlet ID, 28 in (710 mm) long
	24T858	1-1/2 in (38 mm) hose inlet kit for waste oil evacuation 150 psi (10 bar), 1-1/2 in NPT hose inlet ID, 28 in (710 mm) long

#### **Self-Adhesive Identification Label Set**

C MATTHAMBER C TERMINATO  C MATTHAMBER C MATTHAMBER  C MATTHAMBER C MAT	Part Number	Description
	180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Anti-Freeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF



### **XD Series Hose Reel Accessories**

















#### Ordering Information

#### **Hose Identification Sets**

Vinyl hose wrap for easy identification of meter fluid

	Part Number	Description
0 GRACO	17S659	Red
O GRACO	17S660	Blue
O GRACO	17S661	Green
O GRACO	17S662	Yellow
0 GRACO	17S663	White

#### Air Hoses - NPT



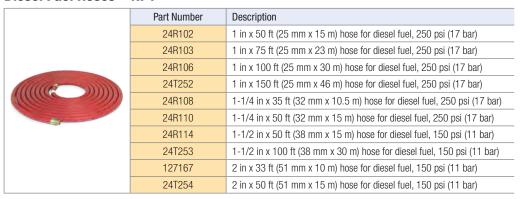
#### Oil Hoses - NPT



#### **Waste Oil Evacuation Hoses - NPT**

	Part Number	Description
	126379	1 in x 50 ft (25 mm x 15 m) hose for waste oil, 250 psi (17 bar)
	126380	1-1/4 in x 35 ft (32 mm x 10.5 m) hose for waste oil, 200 psi (13.8 bar)
	126688	1-1/4 in x 50 ft (32 mm x 15 m) hose for waste oil, 200 psi (13.8 bar)
	127173	1-1/2 in x 50 ft (38 mm x 15 m) hose for waste oil, 200 psi (13.8 bar)

#### Diesel Fuel Hoses - NPT



















### XD Series Hose Reel Accessories

### >>> Ordering Information

#### **BSPP/BSPT Conversion Kits**

Part Number	Description
24T359	BSPP Conversion Kit. To convert a 1 in XD 60 or XD 80 reel from NPT to BSPP
24T361	BSPP Conversion Kit. To convert a 1 in XD 70 reel from NPT to BSPP
24T365	BSPP Conversion Kit. To convert a 1.5 in XD 70 from NPT to BSPP
24T363	BSPP Conversion Kit. To convert a 1.5 in XD 80 from NPT to BSPP
24T360	BSPT Conversion Kit. To convert a 1 in XD 60 or XD 80 reel from NPT to BSPT
24T362	BSPT Conversion Kit. To convert a 1 in XD 70 reel from NPT to BSPT
24T366	BSPT Conversion Kit. To convert a 1.5 in XD 70 from NPT to BSPT
24T364	BSPT Conversion Kit. To convert a 1.5 in XD 80 from NPT to BSPT
24T368	BSPT Conversion Kit. To convert a 2 in XD 70 from NPT to BSPT
24T367	BSPT Conversion Kit. To convert a 2 in XD 80 from NPT to BSPT



Notes	
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() GRACO



#### **Convenient Used-Oil Receiver**

Oil King is designed with the busy shop in mind. With oversized tires and push-pull handles it allows for smooth maneuvering. The large funnel can collect fluids from both a drain plug and a filter port at the same time.



#### Large Offset Collection Pan

This funnel can be raised to a maximum height of 72 in (183 cm) and is equipped with a filter screen to prevent debris from entering the tank.

#### Filter Drain Tray

Used filters are able to drain separately from the collection pan.

#### Convenient Tool Tray

Built-in holding bins for new or used filters, wrenches and rags all at your fingertips.

#### Liquid Sight Gauge

A full-length liquid level sight gauge lets you know when the tank is full.

#### Large 25-Gallon (94.6 I) Capacity Receiver

Made from a heavy-duty, durable UV stabilized polymer. Dent-, rust- and corrosion-resistant.

#### **Oversized Tires**

Easily maneuver over hose and rough floors.

#### Two Evacuation Port Options

Choose from the gravity drain valve at the bottom or suction evacuation at the top.

#### **Typical Applications**

- · Automotive dealerships
- · Fast lube centers
- Service shops
- · Heavy-duty dealerships
- Fleet services facilities

#### Typical Fluids Handled

Used oil

chnical Specifications	
Fluid	Used Oil
Fluid Capacity	25 gal (95 l)
Evacuation	Bottom - Gravity / Top - Suction
Receiver Material	Polyethylene
Length	24 in (60 cm)
Width	24 in (60 cm)
Height	45 to 72 in (1.1 to 1.8 m)
Funnel Size	22 x 24 in (50 x 56 cm)
Dry Weight	54 lb
Instruction Manual	308667

### Ordering Information

Part Number	Description
238866	25 gal (95 l) used-oil receiver with used-filter tray, tool holders and sight gauge. Must use wall mount package (224873) for topside evacuation

Must ship via truck









### **Durable Receiver**

Coolant King is designed with the busy shop in mind. With oversized tires and push-pull handles it allows for smooth maneuvering. The full-length sight gauge lets you know when the tank is full.

### Large Offset Collection Pan

This funnel can be raised to a maximum height of 72 in (183 cm) and is equipped with a filter screen to prevent debris from entering the tank.

### Convenient Tool Tray

Built-in holding bins for shop tools at your fingertips.

### Liquid Sight Gauge

A full-length liquid-level sight gauge lets you know when the tank is full.

### Large 25-Gallon (94.6 I) Capacity Receiver

Made from a heavy-duty, durable UV stabilized polymer. Dent-, rustand corrosion-resistant. Colour specific for easy fluid identification.

### **Oversized Tires**

Easily maneuver over hose and rough floors.

### Two Evacuation Port Options

Choose from the gravity drain valve at the bottom or suction-evacuation at the top.

### **Typical Applications**

- Automotive dealerships
- · Fast lube centers
- Service shops
- · Heavy-duty dealerships
- Fleet services facilities

### Typical Fluids Handled

· Used anti-freeze

Fechnical Specifications		
Fli	uid	Anti-freeze
Flo	uid Capacity	25 gal (95 l)
Ev	acuation	Bottom - Gravity / Top - Suction
Re	eceiver Material	Polyethylene
Le	ength	24 in (60 cm)
W	idth	24 in (60 cm)
Не	eight	45 to 72 in (1.1 to 1.8 m)
Fu	innel Size	22 x 24 in (50 x 56 cm)
Dr	y Weight	54 lb
Ins	struction Manual	308667

### **Ordering Information**

Part Number	Description
248632	25 gal (95 l) used-anti-freeze receiver with used-filter tray, tool holders and sight gauge. Must use wall mount package (224873) for topside evacuation

Must ship via truck



G Oil AL

### **Pressurized Oil Drain**

Drain, evacuate and transfer used oil reliably. quickly and in the most cost-effective manner.



### Large Offset Collection Pan

23 inch (58 cm) diameter offset collection bowl gives you a 31 inch (79 cm) total reach.

### Superior Maneuverability

Wider and thicker handle for comfort.

### Easy to Drain

Pressurize using shop air for easy oil evacuation.

### Large 24-Gallon (90 I) Capacity Receiver

Perfect for small to large shops without an evacuation system.

### Liquid Sight Gauge

Easy-to-read tank-level gauge lets you know when the tank is full.

### Large Casters

Easily move around rough shop floors.



- · Automotive dealerships
- Fast lube centers
- Service shops
- · Heavy-duty dealerships
- · Fleet services facilities

### Typical Fluids Handled

Used oil

Technical Specifications		
	Fluid	Used oil
	Fluid Capacity	24 gal (91 l)
	Evacuation	Pressurized
	Receiver Material	Steel
	Length	24 in (60 cm)
	Width	16 in (40.6 cm)
	Height	56 to 80 in (143.5 to 203 cm)
	Funnel Size	24 in (61 cm) diameter
	Dry Weight	74 lb

310864

### **Ordering Information**

Part Number	Description
119577	24 gal (90 l) steel-tank pressurized oil drain

Instruction Manual



## Oil Ace<sup>™</sup> - Used Oil Evacuation

### Vacuum-Assisted Oil Collection System

For shops requiring flexibility, use Graco's multi-purpose used oil evacuation system when fluid drain plugs are either not available or not easily accessible.

### Large Offset Collection Pan

Wide offset collection bowl prevents splashing.

### Vacuum Gauge

Ensure peak performance with easy-to-read vacuum gauge.

### Sight Glass

Inspect oil quality via large, clear evacuation chamber and verify amount extracted.



### Easy to Drain

Pressurize using shop air for easy oil evacuation.

### Vacuum Probes

Variety of flexible suction attachments and adapters included.

### Large 24 Gallon (90 I) Capacity Receiver

Perfect for small to large shops without an evacuation system.

### **Typical Applications**

- · Automotive dealerships
- · Fast lube centers
- Service shops
- · Heavy-duty dealerships
- · Fleet services facilities

### Typical Fluids Handled

Used oil

Fluid	Used oil
Tank Capacity	24 gallon (90 l)
Evacuation	Pressurized
Receiver Material	Steel
Length	24 in (61 cm)
Width	16 in (40.6 cm)
Height	39 to 70.8 in (99 to 180 cm)
Funnel Size	23.8 in (60 cm)
Dry Weight	50.7 to 73.2 lbs (23 to 33.2 kg)
Instruction Manual	310864



## Oil Ace - Used Oil Evacuation



### Ordering Information

Part Number	Description
26C061	24 gal (90 l) steel tank with suction probes and adapters
26C062	24 gal (90 l) steel tank with suction probes, adapters and sight glass
26C063	24 gal (90 l) steel tank with suction probes, adapters and oil drain funnel
26C064	24 gal (90 l) steel tank with suction probes, adapters, sight glass and oil drain funnel



## **16-Gallon Mobile Receiver**



### **Typical Applications**

- Automotive dealerships
- Heavy-duty dealerships
- Fast lube centers
- Fleet services facilities
- Service shops

### Typical Fluids Handled

Used oil

Technical Specifications		
	Fluid	Used oil
	Fluid Capacity	16 gal (61 l)
	Evacuation	Gravity
	Receiver Material	Steel (239302 does not include drum)
	Manual	306449
	Length	26 in (66 cm)
	Width	23 in (58 cm)
	Height	42 to 70 in (107 to 177 cm)
	Funnel Size	23 x 23 in (58 x 58 cm)
	Dry Weight	40 lb (18 kg)

### Ordering Information

Part Number	Description
239301*	16 gal (60 l) Oil receiver with steel drum oil receiver
239302	16 gal (60 l) Oil receiver without drum

<sup>\*</sup>Use with evacuation kit 224873 or 24E166. 240832 can be ordered separately for existing diaphragm pump evacuation systems.

### **Accessories**

### **Funnel Kit**

Part Number	Description
243650	Use with 238866, 239301, 239302 and 248632. Includes tray and pipe.

### **Wall-Mounted Funnel Drain**

Part Number	Description
154616	Use with Pedestal Receiver 225272 to open automatic check-valve and drain used oil through wall to waste tank. Drain has 1-1/4 NPT(F) outlet.

### **Drum-Mounted Funnel Drain**

Part Number	Description
156789	Use with Pedestal Receiver 225272 to open automatic check-valve and drain used oil into standard drum. Funnel drain has 2 in NPT bung fitting for use with 55 gal (210 l) or 16 gal (60 l) drums or 275 gallon (1,100 l) tanks.

### **ATF Drain Funnel**

Part Number	Description
208009	Use with Pedestal Receiver 225272 to extend funnel reach. Use for draining transmissions. Not equipped with drain plug. 16 in x 24-1/2 in.



## **Big Hauler™ Truck Drain**





### **Typical Applications**

- Truck maintenance facility
- · Heavy-duty dealerships
- · Fleet services facilities

### Typical Fluids Handled

• Used oil

ecl	echnical Specifications		
	Fluid	Used oil	
	Fluid Capacity	26 gal (98.4 l)	
	Evacuation	Gravity	
	Receiver Material	Steel	
	Length	42 in (106.7 cm)	
	Width	30 in (76.2 cm)	
	Height	9 to 11 in (22.9 to 27.9 cm)	
	Instruction Manual	309194	

### Ordering Information

Part Number	Description
244055*	Big Hauler truck drain specially designed for truck maintenance facilities

\*Use with evacuation kit 224873 or 24E166. 240832 can be ordered separately for existing diaphragm pump evacuation systems

## **Track Receivers**





### **Typical Applications**

- Fast lube centers
- · Fleet services facilities

### Typical Fluids Handled

• Used oil

Тес	Technical Specifications					
	Part Number	218969	235346			
	Fluid	Oil	Oil			
	Fluid Capacity	30 gal (113 l)	27 gal (102 l)			
	Evacuation	Gravity	Gravity			
	Receiver Material	Steel	Steel			
	Extension Range	37.5 to 46 in (0.95 to 1.17 m)	34.1 to 42.6 in (0.87 to 1.08 m)			
	Instruction Manual	307727	307727			

### Ordering Information

Part Number	Description
218969	Specially designed for car and truck fast lube facilities where speed and mobility are important. Adjustable steel rollers fit track widths.
235346	Narrow rolling used-oil receiver, specially designed for car and truck fast lube facilities where speed and mobility are important. Adjustable steel rollers fit track widths. Same as 218969 except track width range.





## **Diaphragm Evacuation Pumps**

### **Typical Applications**

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- · Fleet services facilities

### Typical Fluids Handled

Used oil





chnical Specifications				
	Husky 716	Husky 1050		
Maximum Fluid Working Pressure	100 psi (7.0 bar / 0.7 MPa)	100 psi (7.0 bar / 0.7 MPa)		
Approximate Free Flow Rate @ 100 psi	16 gal/min (61 l/min)	50 gal/min (189 l/min)		
Output per Cycle	0.04 gal (0.15 l)	0.17 gal (0.64 l)		
Air Inlet	1/4 in	1/2 in		
Fluid Inlet	3/4 in	1 in		
Fluid Outlet	3/4 in	1 in		
Maximum Pump Speed	400 cpm	275 cpm		
Cycles per Gallon	25 cpg	5.9 cpg		
Cycles per Liter	6.7 cpl	1.6 cpl		
Wetted Parts	Buna-N, acetal, aluminium, stainless steel, PTFE, zinc-plated steel	Aluminium, TPC-ET, acetal, PTFE, Buna-N		
Sound Pressure Level	85 dB(A)	96 dB(A)		
Sound Power Level	95 dB(A)	90 dB(A)		
Approximate Weight	8.5 lb (3.9 kg)	23 lb (10.5 kg)		
Instruction Manual	308573	313597		

### Ordering Information

Part Number	Description
241906	Husky 716 Evacuation Pump
647731	Husky 1050 Evacuation Pump



## **Evacuation Pump Packages**

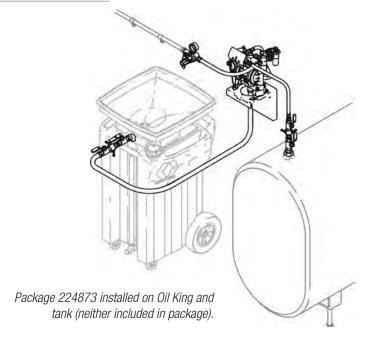




### **Wall Mount Packages**



Package Number	24E166	224873
Diaphragm Pump	1050A (1 in) UL-listed	716 (3/4 in)
Pump Part Number	647731	241906
Mounting Type	Wall Bracket	Wall Bracket
Mounting Part Number	24C637	224835
Fluid	Oil	Oil
Evacuation	Drum Adapter	Drum Adapter
Evacuation Part Number	240832	240832
Air Installation Kit	240684	240684
Fluid Installation Kit	240685	240685
Instruction Manual	313597	308719
Listings	UL, CE	_





## **Evacuation Pump Packages**

### Ordering Information

### **Base Pump Packages**

System evacuates lube from differential case using suction generated by a diaphragm pump. Nylon tubes ranging in size from 3/16 in OD to 1/2 in OD are included to fit through sight plug to completely drain the case. Evacuated gear lube is then pumped to waste tank. Piping and waste tank not included. Systems are fully groundable and bondable for safe transfer of used oil.



Package Number	Number 224955 24E167		223695
Diaphragm Pump 716 (3/4 in)		1050A (1 in)	716 (3/4 in)
Pump Part Number 241906		647731	241906
Mounting Type	Base	Base	Base
Fluid	Gear Lube	Gear Lube	Gear Lube
Evacuation	Suction Wand	Suction Wand	Suction Wand
Evacuation Part Number	221146	221146	223696
Air Control Kit	110149	221147	-
Instruction Manual 308573		313597	308035 / 308573
Listings	CE	UL, CE	-
Order additional suction hose/ wand (221146) and additional control valve (220969) for each additional suction point. Order grounding clamp (222011) or use locally supplied grounding wires and clamps in accordance with applicable codes.		Order additional suction hose/ wand 221146 and additional control valve 220969 for each additional suction point. Order grounding clamp 222011 or use locally supplied grounding wires and clamps in accordance with applicable codes. See instruction manual 313597 for more information.	-

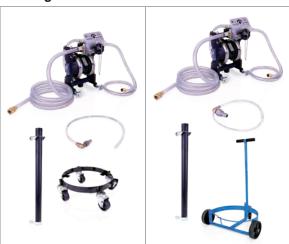


## **Evacuation Pump Packages**

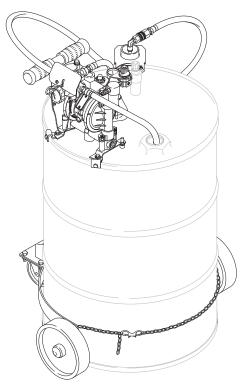


### Ordering Information

### **Fas-Vac Mobile Packages**



Package Number	224700	224701
Cart	224665	111470
Compatible Drum Size (Not included)	16 gal (60 l)	55 gal (200 l)
Pump	716 (3/4 in)	716 (3/4 in)
Pump Package	224667	224667
Fluid	Oil, Gear Lube	Oil, Gear Lube
<b>Evacuation Kit</b> 224669 / 224666		224702 / 224666
<b>4-Way Valve</b> 187359		187359
Port Size 1/2 NPT(F)		1/2 NPT(F)
Instruction Manual 308163		308163
Must be ordered separately (Not Included)		
Filter Regulator Lubricator (FRL)	110149	110149
FRL Mounting Kit	224759	224759



Package 224701 installed on oil drum (Drum and filter regulator not included in package)

## **Fluid Reclaim Accessories**

### Ordering Information

### 4-Way Evacuation Valve

Directional control valve used to simplify the filling and emptying of tanks

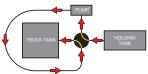


### **Features and Benefits**

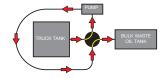
- Simplifies installation by eliminating need for multiple valves
- Unrestricted flow no pressure or volume loss
- Two-position tank fill and emptying control
- Tapered, self-seating valve spool for superior sealing performance

Part Number		Description
	120581	1 in NPT(F) 4-Way Evacuation Valve
	120601	1-1/2 in NPT(F) 4-Way Evacuation Valve





Lube Truck/Bulk Waste Tank



### **Air Regulators**

Provides precision control of outlet air pressure. Feedback principle provides constant pressure to pump regardless of air demand rate and fluctuations in supply pressure. Additional fittings required (except air regulators with installation kits).

	Part Number	Description
	110318	1/4 NPT(FBE)
	110147	1/4 NPT(FBE) with gauge
	110234	3/8 NPT(FBE)
2	109075	3/8 NPT(FBE) with gauge
	202858	3/8 NPT(M) x 1/2 NPSM(F) with gauge
2	104266	1/2 NPT(FBE)
	244844	1/2 NPT(FBE) with gauge
•	207755	3/4 NPT(FBE)
	244845	3/4 NPT(FBE) with gauge



## **Fluid Reclaim Accessories**

### Ordering Information

Air Filters and Drains
Centrifugal action 1/4, 3/8 and 1/2 NPT (with 20 micron filters); 3/4 NPT having 40 micron filters to remove water and foreign particles from air supply.

	Part Number	Description	
	110146	1/4 NPT(FBE) Air Filter. Manual drain.	
<b>T</b>	106148	3/8 NPT(FBE) Air Filter. Auto-drain.	
<b>T</b>	106149	1/2 NPT(FBE) Air Filter. Manual drain.	
<b>T</b>	106150	3/4 NPT(FBE) Air Filter. Manual drain.	
	106151	Automatic filter drain float-type, 1/4 NPT(M). Use with 106150, 112859 and 217074.	
	127711	Automatic filter drain float-type. Use with 106148 and 106149. Sold in NA only.	

### **Installation Kits**

Installation kits include shut-off valve, regulators, gauges and fittings as necessary for normal installation.

Part Number	Description
218316	Installation kits for Fast-Flo, Fire-Ball or Husky 307, and 716 diaphragm pumps
224512	Installation kits for Mini Fire-Ball 225 and Fire-Ball

## **Fluid Reclaim Accessories**

### Accessories Ordering Information

### **Additional Accessories**

	Part Number	Description
	221146	10 ft (3.04 m) suction hose and quick coupler with four interchangeable 15 in (38.1 cm) suction wands. OD options: 3/16 in, 1/4 in, 3/8 in, 1/2 in. For use with Husky 716 or 1050 gear oil evacuation systems.
6866	223696	Four interchangeable 15 in (38.1 cm) suction wands. OD options: 3/16 in, 1/4 in, 3/8 in, 1/2 in. For use with part 223695 evacuation pump.
	224702	32 in suction wand. 1/2 in OD.
	224762	48 in (121.9 cm) suction wand kit with four interchangeable wands. OD options: 3/16 in, 1/4 in, 3/8 in, 1/2 in.
†	224666	36 in suction wand storage kit
= 9 10	218970	Tandem drain kit connects two rolling receivers for flow-through draining operation. Kit includes connector hose, shut-off valve, pipe nipple and quick-connect nipple. Instruction manual 307727.
	108491	Drain hose kit allows rolling used-oil receiver to be drained directly into the used-oil line.  Kit is 24 in (0.6 m) in length with camlock coupler on one end.
800	221007	Swing-Arm Drain Kit, used for servicing single rolling used-oil receiver (218969). When used with tandem drain kit (218970) it can service two receivers on a single track. Kit includes swivel elbow (108867), connector hose, dust cap (108203) and male adapter (108202).
	116229	Oil Tank Monitor. Shuts off air to the pump when tank is full.
Q	223888	6 ft (1.8 m) suction hose for ATF and anti-freeze. Includes filter screen. Use with 223695.
	222011	Grounding clamp for all used-oil handling systems. Includes 25 ft (7.6 m) grounding wire.
	187359	4-way valve 1/2 NPT(F) ports









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AIR ACCESSO

1042**66 300** PSI 21 MAX WPR



## **Air Regulators and Valves**



### Ordering Information

### **FRL Combination Units**

Each includes filter, regulator, pressure gauge, lubricator and connection fittings.

Part Number	Inlet
110149	1/4 in NPT(FBE)
110150	3/8 in NPT(FBE)
217072	1/2 in NPT(FBE)
217073	3/4 in NPT(FBE)

### **Bleed-Type Air Shut-Off Valves**

Closes air inlet to pump and relieves trapped air pressure down line from valve. Recommended for each pump drop line. Note: Be certain to install correctly. If installed backwards air will constantly escape from the valve. Maximum pressure of 250 psi (17 bar).

	Thread	1/4 in	3/8 in	1/2 in	3/4 in
0,00	NPT(FBE)	110223	110224	110225	110226
	NPT(MXF) inlet x outlet	-	_	107142	107141

### **Ball Valve-Type Air Shut-Off Valve - Non-Pressure Relieving**

	Part Number	Inlet	Maximum Working Pressure
	208390	1/4 in NPT(MBE)	500 psi
(3)	208393	3/8 in NPT(MBE)	500 psi
AND THE PARTY OF T	208630	1/2 in NPT(M) x 3/8 in NPT(F)	500 psi
	109077	3/4 in NPT(FBE)	600 psi
	118464 1 NPT(F	1 NPT(FBE)	600 psi





### Ordering Information

### **Air Needle Valve**

Controls pump speed by restricting air flow to pump or other air-operated equipment.

	Part Number	Inlet	Outlet
7	205090	1/4 in NPSM(M)	1/4 in NPSM(F)
**	206264	1/4 in NPT(M)	1/8 in NPT(F)

### **Air Pressure Relief Valve**

Prevents pump from operating beyond recommended working pressure by opening at a pre-set maximum air pressure.

Part Number	Maximum Pressure Rating	Thread
110065	60 psi (4 bar)	1/4 in NPT(M)
103347	100 psi (6.9 bar)	1/4 in NPT(M)

### **Air Pressure Gauge**

Allows visual check of air pressure being supplied to the pump. Rated to 200 psi (14 bar)

G G G G G G G G G G G G G G G G G G G	Part Number	Inlet	Colour
	110319	1/8 in NPT(M)	Black
	100960	1/4 in NPT(M)	Black
	101180	1/4 in NPT(M)	Chrome

### **Air Manifold**

Supply several pumps from one supply line. Larger port delivery ensures adequate air flow to all pumps.

	Part Number	Inlet Ports	Inlet Thread	Outlet Thread	Maximum Pressure Rating
1000	158990	2	1/2 in NPT(F)	3/8 in NPT(F)	5,000 psi

### **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.

8	Part Number	Inlet
400	224040	3/4 in NPT(FBE)

## **Hose Fittings**





### Ordering Information

### **Blow Guns**

Safety Blow Gun tip swivels freely and cannot be removed. Tip pressure will not exceed 30 psi (2 bar), adequate for cleaning. Maximum working pressure 150 psi (10 bar). Use with coupler 208536.

Part Number	Description	Inlet
236211	Air blow gun	1/4 in NPT(F)

### **Tire Inflators**

	Down Normala ar	Description		Incli	Includes	
	Part Number	Description	12 in Hose	Swivel Dual-Foot Chuck	Straight-On Chuck	Pop-Out Gauge
	236205	Heavy-Duty Tire-Inflator	Yes	Yes	-	Yes
LA STATE OF THE PARTY OF THE PA	236206	Passenger Car Tire Inflator	Yes	_	Yes	Yes
	218545	Tire Chuck with 1/4 in NPT(F) inlet	-	-	-	-

### **Water Valve**

Water/Anti-Freeze Bib is a durable, full-volume dispense nozzle for water, anti-freeze and windshield washer fluid. Nitrile rubber seals.

	Part Number	Inlet	Pressure Rating
100	180685	1/4 in NPT(F)	100 psi (7 bar)











### Ordering Information

### **Heavy-Duty Reinforced Lubrication Hoses**

For use with grease, oil and undercoating material. Hoses are black, male connections at both ends. Lubrication hoses listed are grounded for static electrical discharge.

	ID Inch	Max PSI	Hose Langth	Fitt	ting	Dort Number
	(mm)	(bar)	Hose Length	End 1 Thread NPT(M)	End 2 Thread NPT(M)	Part Number
			12 in (0.3 m)	1/8	1/8	109145*
			15 in (0.4 m)	170	170	109148*
			24 in ( 0.6 m)	3/8	0./0	109146
			30 in (0.8 m)	3/6	3/8	109147
			48 in (1.2 m)			109149
			72 in (1.8 m)		1/4	109150
	1/4 (6.44)	5,000 (345)	12 ft (3.6 m)		1/4	109151
	(0.11)	(0.10)	15 ft (4.6 m)			109152
			20 ft (6.1 m)	1/4	3/8	109153
			25 ft (7.6 m)		1/4	109154
			35 ft (10.6 m)			109156
			40 ft (12.2 m)		3/8	109157
			50 ft (15.3 m)			109158
			12 in (0.3 m)	1/4	1/2	109160
	3/8 (9.5)	4,000 (276)	24 in (0.62 m)	3/8	3/8	109161
			48 in (1.2 m)			109162
			72 in (1.8 m)			109163
			15 ft (4.6 m)	1/4	1/4	109165
			40 ft (12.2 m)		0.40	109169
			50 ft (15.3 m)		3/8	109170
			15 in (0.4 m)	1/2	1/2	110069
			18 in (0.5 m)			220598
			54 in (1.4 m)			220600
			72 in (1.8 m)			220591
			10 ft (3.1 m)			220590
	1/2 (12.7)	3,000 (207)	16 ft (4.9 m)			220592
	(12.17)	(201)	20 ft (6.1 m)			220593
			25 ft (7.6 m)			220608
			40 ft (12.2 m)			221092
			50 ft (15.3 m)			221093
			75 ft (22.9 m)		3/4	237861
			18 in (0.4 m)			109108
			72 in (1.8 m)	3/4	3/4 (19.1)	109105
	3/4 (19.1)	2,250 (155)	10 ft (3.0 m)		(10.1)	111010
	(13.1)	(155)	75 ft (22.9 m)	1/0		237865
			50 ft (15.2 m)	1/2	1	237866
	1 (25.4)	212 (14.6)	50 ft (15.2 m)	1	1	241908
	1 (25.4)	125 (8.7)	50 ft (15.2 m)	1	1	249058



## **Air/Water Hoses**





Ordering Information

### **Air/Water Hoses**

For use with low pressure air and water. Hoses are male NPT at both ends.

	ID Inch	Max PSI	Hees Length	Fitt	ting	Doub November
	(mm)	(bar)	Hose Length	End 1 Thread NPT(M)	End 2 Thread NPT(M)	Part Number
			18 in (0.5 m)			109123
			4 ft (1.2 m)			109124
	Fabric-Reinforced		6 ft (1.8 m)	1/4	1/4	109125
	1/4	180 (12.4)	10 ft (3.1 m)	1/4		109126
	(6.44)	()	25 ft (7.6 m)		1/2	109127
			40 ft (12.2 m)		1/2	109128
			40 ft (12.2 m)	3/8	1/4	218491
			18 in (0.5 m)			204560
			4 ft (1.2 m)	3/8	3/8	109130
		180 (12.4)	6 ft (1.8 m)	3/8		203320
	3/8 (9.5)		10 ft (3.1 m)			109131
			16 ft (4.9 m)	1/4	3/8	110326
8			25 ft (7.6 m)	3/8	1/2	109132
			40 ft (12.2 m)			109134
			60 ft (18.3 m)			109135
			22 in (0.56 m)	1/2	1/2	218093
	1/2	180	4 ft (1.2 m)			110046
	(12.7)	(12.4)	6 ft (1.8 m)	1/2		205418
			10 ft (3.1 m)			214656
	1/2	300	25 ft (7.6 m)	1/2	1/2	248312
	(12.7)	(20.7)	50 ft (15.2 m)	1/2	1/2	248313
			18 in (0.5 m)			110047
			4 ft (1.2 m)			110048
	3/4 (19.1)	180 (12.4)	6 ft (1.8 m)	3/4	3/4	208610
	(,	( · · /	10 ft (3.1 m)			214955
			25 ft (7.6 m)			208611



## **Quick-Connect Fittings**



### Ordering Information

### **Quick-Connect Coupler**

Permits quick, convenient attachment of air supply hoses.



Part Number	Inlet	Body Size
208536	1/4 in NPT(F)	1/4 in
110198	3/8 in NPT(F)	1/4 in
110199	1/2 in NPT(F)	3/8 in
110200	3/4 in NPT(F)	1/2 in

### **Quick-Connect Nipple**

Allows quick attachment of air supply hoses to pump motor.



Part Number	Inlet	Body Size	
169967	1/4 in NPT(F)	1/4 in	
169970	1/4 in NPT(M)	1/4 in	
169971	3/8 in NPT(M)	1/4 in	
110196	1/2 in NPT(M)	3/8 in	
110197	3/4 in NPT(M)	1/2 in	

## **Adapters and Fittings**













### Ordering Information

### **Bushings and Pipe Adapters - Reducing, Standard and Expanding**

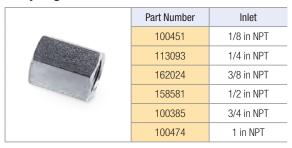
	Outlet	
	Outlet	1/8 in NPT
	1/8 in NPT	150171
	1/4 in NPT	100030
All the same of th	3/8 in NPT	-
Minister 1	1/2 in NPT	-
	3/4 in NPT	-
	1 in NDT	

Outlet	Inlet						
Outlet	1/8 in NPT	1/4 in NPT	3/8 in NPT	1/2 in NPT	3/4 in NPT	1 in NPT	
1/8 in NPT	150171	159840	156580	-	-	-	
1/4 in NPT	100030	-	150287	159842	-	-	
3/8 in NPT	-	159841	150286	156022	-	-	
1/2 in NPT	-	100206	100081	-	168595	-	
3/4 in NPT	-	100615	100505	100896	_	_	
1 in NPT	-	-	-	100380	158586	-	

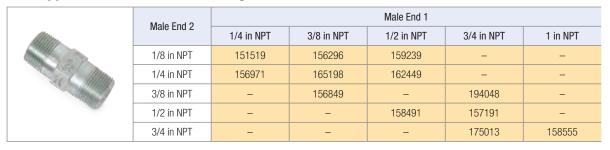
### **Street Elbows**

Part Number	Inlet/Outlet
100840	1/4 in NPT
155699	3/8 in NPT
158683	1/2 in NPT
176393	3/4 in NPT

### **Coupling – Standard**



### **Hex Nipples - Standard and Reducing**

















### **Square Head Plug**



Part Number	Inlet
111697	1/4 in NPT
100040	3/8 in NPT
100737	1/2 in NPT
104663	3/4 in NPT

### **Swivel Adapters\***











Rigid End	Swivel End	Straight Swivel Adapter (m x f)	Straight Swivel Adapter (f x f)	90° Swivel Adapter (f x f)	90° Swivel (m x f)	45° Swivel Adapter (m x f)
1/8 in	1/4 in	208434	-	-	-	-
1/4 in	1/4 in	156823	155570	157676	155541	-
1/4 111	3/8 in	157705	-	-	-	-
	1/4 in	-	159153	-	155495	-
3/8 in	3/8 in	155665	156173	155677	155494	161889
	1/2 in	162505	-	159801	217430	-
	1/4 in	-	155653	-	-	-
1/2 in	3/8 in	158256	161077	-	161037	-
	1/2 in	156684	155865	157416	155470	-
3/4 in	3/4 in	157785	156172	156589	160327	105281
1 in	3/4 in	202965	-	-	-	-
1 111	1 in	160022	158383	-	-	-

<sup>\*</sup>Not a "live" swivel, position is stationary after tightened.

### **Tube Fittings**

Maximum pressure rating of 3000 psi (207 bar) with appropriate tubing wall thickness.

Description	Inlet	Tube OD		
Description	met	5/8 in	7/8 in	
Tube Union Flow 90° Elbow	=	101012	101376	
Straight Tube Union	-	101009	101340	
Male Connector	3/4 in NPT	=	101339	
Straight Female Connector	1/2 in NPT	101008	-	
Tube Tee with Female Branch	5/8 in NPT	101013	-	

## **Graco Equipment Warranty**

## **Standard Graco Warranty**

### 1-Year Warranty Policy

Graco warrants all equipment manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended or limited warranty published by Graco, Graco will, for a period of twelve (12) months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective.

This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations. This warranty does not cover, and Graco shall not be liable for, general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser. transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which may include the costs of parts, labor and transportation.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including but not limited to incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold but not manufactured by Graco (such as electric motors, switches, hoses, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco or otherwise.

## **Graco Equipment Warranty**

## **Graco Petroleum Management Group Equipment Extended Warranty**

Graco warrants all equipment referenced in this document that is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the distributor. Graco will, for a period as defined in the table on the opposite page from the date of sale, repair or replace equipment covered by this warranty and determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for. general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser, transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which may include the costs of parts, labor and transportation.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including but not limited to incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within one (1) year post the warranty period.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ANY ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO.

These items sold but not manufactured by Graco (such as electric motors, switches, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco or otherwise.

### FOR GRACO CANADA CUSTOMERS

The parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaries exécutés, donnés ou intentés à la suite de ou en rapport, directement ou indirectement, avec les procedures concernées.



## **Graco Equipment Warranty**

# **Graco Petroleum Management Group Equipment Extended Warranty** (cont.)

		Warranty Period
	Oil King, Coolant King, and Oil Ace	5 Years
	Pulse Fluid Management Hubs, TLMs, PACs and Extenders	2 Years
	Cord and Light Reels	2 Years
	Electrical Components	1 Year
	LD Series Hose Reels	5 Years
	Wear Parts, including but not limited to hose, seals, swivel seats and roller guides	1 Year
REELS	SD Series Hose Reels	7 Years
æ	Power Springs	3 Years
	Wear Parts, including but not limited to hose, seals, swivel seats and roller guides	1 Year
	XD Series Hose Reels	7 Years
	Power Springs	3 Years
	Wear Parts, including but not limited to hose, seals, swivel seats, roller guides and motors	1 Year
	Mechanical Meters	5 years
	Wear parts, including but not limited to o-rings, seals and valves	1 Year
	LD Preset Meters	5 years
	Electronics	2 Years
S	Wear parts, including but not limited to o-rings, seals and valves	1 Year
METERS	SD Meters and Valves	7 Years
2	Electronics	3 Years
	Wear parts, including but not limited to o-rings, seals and valves	1 Year
	EM Meters and Valves / Pulse Meters and Valves	5 Years
	Electronics	3 Years
	Wear parts, including but not limited to o-rings, seals, valves and trigger locks	1 Year
	LD Oil/Grease Pumps	5 Years
	Wear Parts, including but not limited to o-rings, packings and seals	1 Year
	Hoses with pump packages	1 Year
	AODD Pumps	5 Years
	Wear Parts, including but not limited to o-rings, packings and seals	1 Year
	Hoses with pump packages	1 Year
PUMPS	Mini Fire-Ball 225 and Fire-Ball 300 Oil and Grease Pumps	7 Years
PU	Wear Parts, including but not limited to o-rings, packings and seals	1 Year
	Hoses with pump packages	1 Year
	Fire-Ball 425 Oil and Grease Pumps	10 Years
	Wear Parts, including but not limited to o-rings, packings and seals	1 Year
	Hoses with pump packages	1 Year
	Fast-Ball and Fast-Flo Oil Pumps	5 Years
	LD Blue and SD Blue Diesel Exhaust Fluid Pumps	2 Years



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