



Vehicle Service Equipment Buyer's Guide

Fluid Handling Equipment for Industrial and Commercial Applications







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

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About Graco

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





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

When it comes to **research and development**, Graco is one step ahead, ensuring we offer the best possible solutions. To guarantee superior quality and to meet the changing requirements of your markets, we prioritize investing resources in research and development. Innovative technologies and extensive field testing are a natural part of our process to develop new products. Also, every aspect of our production is subject to constant testing and

evaluation. It's the foundation to deliver products with long service life and low cost of ownership. The insurance to help you grow your business.



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

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

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

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

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

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



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



Did You Know?

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



Keep your equipment running at peak performance.

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



Graco Resources

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



Graco Sales Book

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.

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

Start shopping today at **gracogear.com**



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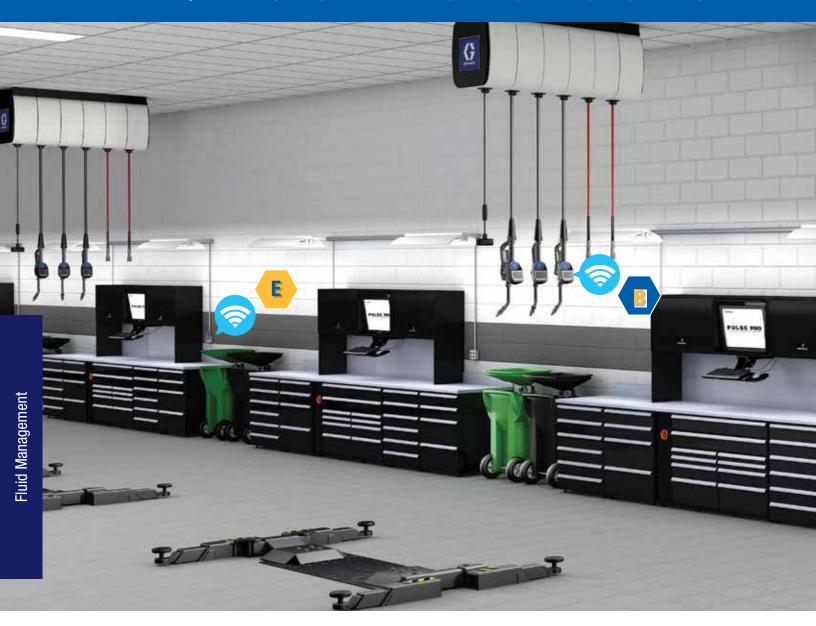




Choosing a Graco Fluid Management Solution

FEATURE	Traditional Box	Pulse FC	Pulse Pro
Control. Regulate the amount of fluid that's disper	nsed to reduce spillage and w	aste.	
Allow control of dispenses	✓	✓	✓
Restrict the quantity of fluid	✓	✓	✓
Ensure correct amount of fluid	✓	✓	✓
Meters. Put control into the hands of your technic	ians so they can be more prod	ductive, accurate and ac	countable.
Works with petroleum, synthetic based oils, antifreeze	✓	✓	✓
Works with windshield wash solvent	✓		✓
Meter displays quantity dispensed		✓	✓
Fluid measured at dispense point (highly accurate)		✓	✓
Installation. Seamless integration simplifies dispe	enses without compromising v	vorkflows or productivity	•
Works with oil bar	→	✓	✓
Wire-free installation		✓	•
Wireless communication			✓
Pump air control (PAC)	✓		✓
Flexibility. Accommodate emerging demands to r	maintain or expand productivit	y and profitability.	
Works with mobile roll-around packages		✓	✓
Easy expansion with additional fluids		✓	✓
Easy upgrade to comprehensive fluid management		✓	N/A
User Interface. Access the information necessary	to make more informed deci	sions quickly.	
Simple PC-based software		✓	
No software to install			✓
Accessible from any PC, phone or tablet			✓
Fluid Management. Improve accountability for yo	our entire operations.		
Track dispenses by invoice or work order			✓
Track dispenses by technician			✓
Record fluid type and quantity dispensed			✓
Keeps technician in service bay			✓
Fluid Inventory. Simplify how you re-order and st	ore inventory to minimize dela	ays.	
Monitor tank levels (TLM)			✓
Dealer Management Solution (DMS) integration			✓
Reporting. Capture critical information and insigh	ts to simplify decision-making		
Print on dispense			✓
Automated customizable reports			✓
Automated alerts to simplify inventory tasks			✓
Software updates		✓	✓
Permanent record of all dispenses or authorizations		✓	✓

Pulse® Pro 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 Pro 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.



Accurate billing. 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.



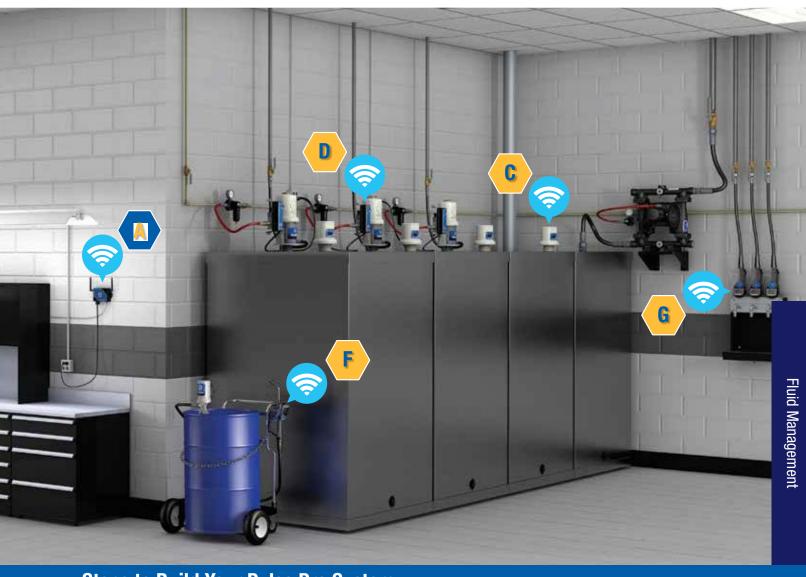
Portability. Pair with mobile dispense units and drums easily to reduce extra steps and hassles for technicians.



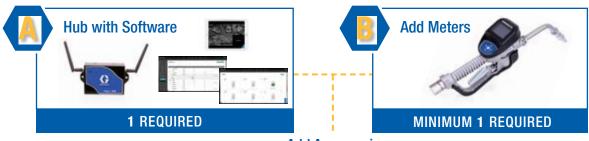
Inventory management. Monitor fluid inventory and schedule refills to minimize delays and excessive costs.



Pulse® Pro Fluid Management



Steps to Build Your Pulse Pro System:



Add Accessories



Pulse® Pro Fluid Management



Pulse Hub

Simply connect the Pulse Hub to a power source and access your local network to get started. The selfcontained device includes everything necessary for users to access monitoring and reporting tools instantly from any network-connected PC, tablet or smartphone.



Pulse Software

Pulse Pro Fluid Management software is pre-installed on the Pulse HUB and 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 PC 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

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

Part Number	Description
24Z978	Hub for non-European installation with global power adapter

DMS Integration Options for Pulse Pro

An integration, put simply, is the communication between two separate business systems. Pulse uses integrations to provide enhanced control and monitoring for fluid dispenses.

Option 1 – Partner Integrations

AssetW**O**RKS

- Requires FleetFocus: FA or M5 with FluidFocus Module
- Communication through Enterprise Asset Management System



- Requires CDK Drive DMS
- Communication through CDK's Third-Party Access Program

Dealertrack 4

- · Requires Dealertrack DMS
- Communication through Dealertrack's Opentrack API



- Requires Excede v9.22+ with Excede Database
- Communication through Excede API v2.0



- Requires PBS DMS
- Communication through PBS Partner Hub



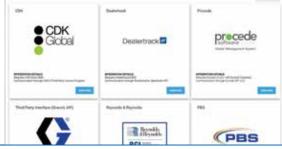
- Requires ERA
- Communication through RCI Web Service

Option 2 – Communication through Graco Third Party Interface



 Requires End-user developed integration for non-supported DMS





How It Works

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



Ordering Information

Interface Activation Codes

Description			
Pulse software with CDK Global Drive			
Pulse software with Dealertrack			
Pulse software with AssetWORKS			
Pulse software with Reynolds & Reynolds			
Pulse software with Procede Software – 2nd site			
Pulse software with Procede Software			
Pulse software with PBS			

Pulse® Pro Fluid Management













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 tags can be used for imm





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.

nical 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 0-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	Aluminum, stainless steel, PBT, nitrile rubber, zinc-plated carbon steel, nickel-plated carbon ste
Fluid Compatibility	Antifreeze, gear oil, crankcase oil, ATF, windshield wash (up to 50% alcohol-based solutions)
Meter Accuracy [†]	+/- 0.5 percent
Warranty	Five year structural, 3 years electronics, 1 year wear components

^{*}Tested in 10W motor oil. Flow rates vary with fluid pressure, temperature and viscosity.

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

*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

Fluid	Extension	Nozzle	Size (in)	Part Number
Oil	Flexible	Automatic Quick-Close	1/2	25M319
Oii	Rigid			25M317
Antifreeze	Flexible	Manual Antifreeze		25M320
	Rigid			25M318
Gear Lube	Gear Lube	Manual		25M326
Windshield Wash	Rigid	None		25M328

18 gpm (68 lpm) Meters

Fluid	Extension	Nozzle	Size (in)	Part Number
Oil / Antifreeze	Flexible	Manual High-Flow	1/2	25M324
	Rigid			25M323
	Flexible	Manual High-Flow	3/4	25M330
	Rigid			25M329

Accessories

Nozzle and Extension Kits

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
		Oil	Automatic, non-drip, quick-close	255852	Pulse 8 gpm
	Rigid	Antifreeze	Non-drip, quick-close	26C267	Pulse 8 gpm
8		Oil/Antifreeze	High-flow, non-drip, quick-close	255857	Pulse 18 gpm
1	Rigid	Gear lube	Non-drip, quick-close	255854	Pulse 8 gpm
Dec		Oil	Automatic, non-drip, quick-close	255853	Pulse 8 gpm
- Miles	Flexible	Antifreeze	Non-drip, quick-close	26C268	Pulse 8 gpm
		Oil/Antifreeze	High-flow, non-drip, quick-close	255858	Pulse 18 gpm
55540		Oil	Automatic, non-drip, quick-close	17R220	Pulse 8 gpm
F	Nozzle Only	Antifreeze	Non-drip, quick-close	17T207	Pulse 8 gpm
		Oil/Antifreeze	High-flow, non-drip, quick-close	255461	Pulse 18 gpm
4	Nozzle Only	Gear lube	Non-drip, quick-close	255470	Pulse 8 gpm
	Flexible	Oil/Antifreeze	Extension only, 2 ft length	131733	Pulse 8 gpm
	Rigid	Windshield wash	Extension, nozzle	273079	Pulse 8 gpm

NFC Tags

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

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

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

Swivel Covers / Impact Protection

	Part Number	Description
	15T366	Black swivel cover (standard color 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 Meter Filter Kits

Part Number	Description
25D906	Filter kit includes filters/strainers (15M308) and 0-rings (155332)

Pulse® Pro Fluid Management













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 t

G



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.



Sealed enclosure to accommodate outdoor usage.

Compact Design

Easily fits into more spaces.

On-Demand Readings

Ability to take reading at any time.



Part Number	Description	
25M449	Tank Level Monitor (TLM)	

nnical Specifications	
Ultrasonic Tank Depth Measurement range (Not for use in pressurized tanks)	5 in to 30 ft (12.7 cm to 9.14 m)
Fluid Level Measurement Accuracy	+/- 1.8 in (4.57 cm)
Mounting	1.5 in and 2 in threaded NPT connector (Adapter for BSPP and BSPT thread options available)
Weight (with batteries installed)	1.25 lb (567 g)
RF Frequency Band	2,400 to 2,483.5 MHz
Operating Temperature Range (Display will not function below 32°F [0°C])	-22°F to 185°F (-30°C to 85°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, antifreeze, 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 mater.



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.



Part Number	Description
24Z728	NPT with NEMA 5-15 plug

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, our	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.



Tec	Technical Specifications				
	Operating Temperature	32°F to 140°F (0°C to 60°C)			
	Power Input	Universal AC input (100 - 240 VAC)			
	Length	2.31 in (5.87 cm)			
	Width	1.27 in (3.23 cm)			
	Height	3.28 in (8.33 cm)			
	Weight	0.5 lb (0.25 kg)			
	Warranty	Two years electronics			

E

Ordering Information

Part Number	Description
20A058	Pulse Pro Extender

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.



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.



Pulse"

Remote

Extender

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

I	Part Number	Description
I	17F878	Remote Extender with global power adapter













Roll Around Package

Pulse Pro 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.



Proven Durability

Graco LD® Series 3:1 pump is a durable, high performance pump solution.

Ease-of-Use

The battery-powered meter means only an air connection is needed to pump and manage fluid dispenses.

Ready to Roll

Packages include everything you need to set up the pump and meter system on your 55-gallon oil drum.

Mobile Productivity

Dispense fluids anywhere in your shop without compromising security or productivity.



Ordering Information

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

no-	Part Number	Description
	249440	Console bracket

Pulse Pro Demo Kit

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

olumlia.	Part Number	Description
	25D625	Includes Pulse Hub (24Z978), Pulse Dispense Meter, Pulse TLM (25M449), Pulse PAC (24Z728), Pulse Extender (20A058), Pulse Remote Extender (17F878), Pulse NFC Tag, case and protective foam

Pulse® FC is wire-free, so installation and configurations are easier and cheaper. We've replaced the big box console with fast, reliable and convenient fluid cards scanned at easy-to-handle meters, so users can employ the same type of familiar technologies they use elsewhere.



HOW IT WORKS

1 REQUIRED

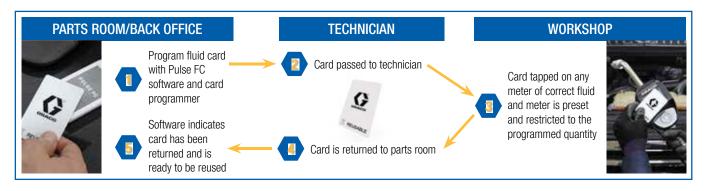
Pulse FC is a fluid control system that utilizes SD Preset meters. When put into Pulse FC mode, SD Preset meters will only dispense fluid when authorized with Fluid Cards. These included cards are programmed using the Pulse FC Software and Card Programmer. Once programmed, the cards are simply tapped to the meter which will be preset for the authorized amount of fluid and will not dispense any more than authorized.

MINIMUM 1 REQUIRED

Add Accessories

Roll Around Package

OPTIONAL











GAIN INSIGHT INTO AND CONTROL OF YOUR BULK FLUIDS



Simplicity. Avoid surprises, interruptions and delays. Fluids are easily controlled so technicians can spend more time serving more customers.



Accountability. Be assured every vehicle or machine receives the appropriate amount of fluid for more accurate billing.



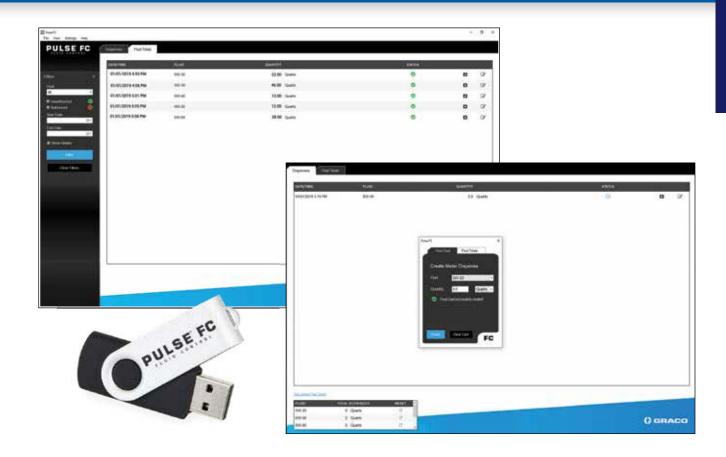
Scalability. Add Pulse FC into almost any environment quickly, even retrofit applications and avoid excessive installation costs and delays. You can also easily upgrade to Graco's Pulse Pro.



Mobility. Pair with mobile dispense units and drums quickly so your team can conveniently dispense without delays, hassles or extra steps.

Pulse FC Software

Pulse FC is a Windows PC-based software. Paired with the card programmer it allows setup and operation of the system. Cards can be utilized to authorize dispenses, totalize all fluids dispensed, as well as setup and calibrate SD™ Preset meters.













Pulse FC Starter Kit

Enjoy an easy-to-use, easy-to-install, out-of-the-box fluid control system designed for fast



Pulse FC Fluid Cards

Reusable fluid cards can be scanned directly on the SD preset meter's built-in NFC reader.

Pulse FC Software Quick Start

Easy-to-follow instructions for quick system setup.

Pulse FC Software

Simple PC-based software is used in conjunction with Pulse FC Programmer.

Part Number	Description	
26C401	Pulse FC Starter Kit – Includes Software, Card Programmer, Software Quick Start and 50-Pack of Fluid Cards	











SD[™] Preset Dispense Meters

With Pulse FC, dispense only shop operation. Monitor how each technician can dispense



Large LCD High-Contrast Display

High-contrast screen for reading in all lighting conditions with easy setup and navigation. See what fluid the meter is setup for and exactly how much you are dispensing.

Upgrade Option

Compatible with $Pulse^{T}$ FC and upgradeable to $Pulse^{T}$ Pro.

High Flow

Available in two models -8 gpm (30 lpm) or 18 gpm (68 lpm).

Durable Cast Body

Designed for heavy duty and harsh applications.

Automatic Quick-Close Nozzle

Choose from rigid or flexible extensions with non-drip performance.

Long-Life Valve Design

Cartridge design for fewer and easier repairs.

Ergonomic Handle Design

Four-finger trigger and easy-to-use button pad reduce worker fatigue.

Typical Applications

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

Typical Fluids Handled

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

chnical Specifications					
Flow Range*	0.25 gpm to 18 gpm (0.9 lpm to 68 lpm)				
Maximum Working Pressure	1,500 psi (103.4 bar)				
Units of Measure	Pints, quarts, gallons, liters (factory set to quarts)				
Metered Dispense Valve Accuracy**	+/- 0.5%				
Inlet	1/2 in–14 NPT or 3/4 in–14 NPT				
Outlet	3/4 in–16 straight thread O-ring Boss				
Maximum Recorded Dispense	9999 units (factory set in quarts)				
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)				
Wetted Parts	Aluminum, stainless steel, PBT, nitrile rubber, zinc plated carbon steel, nickel plated carbon steel				
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	5.3 lb (2.4 kg)				
Warranty	Five years overall, three years electronics				
Instruction Manual	3A6711 and 3A6673				

^{*}Tested in 10W motor oil. Flow rates vary with fluid pressure, temperature and viscosity.

^{**}At 2.5 gpm (9.5 lpm), at 70°F (21°C), with 10-weight oil and 1 gallon dispensed. May require calibration.

^{***}Battery required to meet life expectancy: Energizer® Alkaline E91.











Ordering Information

SD[™] Preset Electronic Meters



	Dispense Type	Flow Range gpm (lpm)	Fluid	Extension	Inlet in (NPT)	Part Number
			0"	Rigid	1/2	26C384
		0.25–8 (1–30)	Oil	Flexible	1/2	26C354
SDP8	Preset (Pulse FC enabled)		Antifreeze	Rigid	1/2	26C385
				Flexible	1/2	26C355
			Gear lube	Rigid	1/2	26C358
		0.25–18 (1–68)	Oil	Rigid	1/2	26C356
SDP18	Preset			Flexible	1/2	26C357
	(Pulse FC enabled)			Rigid	3/4	26C360
				Flexible	3/4	26C361

Nozzle and Extension Kits

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
C==101		Oil	Automatic, non-drip, quick-close	255852	SDP8
	Rigid	Antifreeze	Non-drip, manual open/close	26C267	SDP8
8		Oil/Antifreeze	High-flow, non-drip, quick-close	255857	SDP18
1	Rigid	Gear lube	Non-drip, quick-close	255854	SDP8
***		Oil	Automatic, non-drip, quick-close	255853	SDP8
	Flexible	Antifreeze	Non-drip, manual open/close	26C268	SDP8
		Oil/Antifreeze	High-flow, non-drip, quick-close	255858	SDP18
	Nozzle Only	Oil	Automatic, non-drip, quick-close	17R220	SDP8
4	Nozzle Only	Gear lube	Non-drip, quick-close	255470	SDP8
	Nozzle Only	Oil/Antifreeze	Non-drip, manual open/close	17T207	SDP8
0	Flexible	Oil/Antifreeze	Extension only, 2 ft length	131733	SDP8











Ordering Information

Roll Around Package

Pulse FC wire-free 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 installations. Drum not included.

9	
50	0

Package	Extensions			Package II	ncludes		
Number	EXTENSIONS	Meter	Pump	Downtube	Drum Cart	Air Regulator	Hose
26C366	8 GPM, Gear Lube	26C358					
26C367	8 GPM, Flexible	26C354	24G576	16F878	24F915	24H420	24H865
26C409	8 GPM, Rigid	26C384					

Oil Bar

Part Number	Description	
25D121	Oil Bar Console	
25D130	Oil Bar Dispense Kit	
25N771	Oil Bar SD Preset Dispense Meter	



Oil Bar

Components ordered separately. For complete unit, order console (25D121), dispense kit (25D130) (one per meter) and Pulse FC meters (25N771) as needed.

Accessories

Pulse FC Fluid Cards

1000	Part Number	Description
Q	130783	Pulse FC Fluid Cards – 50-Pack, White

Pulse FC Demo Kit

Part Number	Description
26C399	Includes Pulse FC Dispense Meter, Software, Card Programmer and 5-Pack of Fluid Cards

SD Meter Filter Kits

Part Number	Description
25D906	Filter kit includes filters/strainers (15M308) and 0-rings (155332)

Swivel Covers / Impact Protection

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

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

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

Graco Pulse® Level offers highly intuitive tank-level-visibility options to help you optimize deliveries, margins and customer service. Choose from multiple tank-level-monitoring technologies, including a system that can run entirely on Wi-Fi. Track tank levels, capture and apply data, and assign distribution routes quickly, accurately and confidently from the industry's leading fluid management expert.



Choose Your Pulse Level System:



Ultrasonic Wi-Fi

There are other TLM solutions on the market - but none of them are designed for Wi-Fi configuration. When connected to a reliable network, marketers and their customers can avoid service fees or contracts entirely.



Ultrasonic Cellular

No need to worry about obsolete cellular network, we use a long term data solution. Versatile multi-thread adapter allows for installation on all different tank types.



Pressure Cellular

No need to worry about obsolete cellular network, we use a long term data solution. Our pressure unit is approved for hazardous locations and measures tanks up to 30 feet tall.

Typical Fluids Handled

- · Petroleum- and synthetic-based oils (motor, gear and ATF)
- Fuel (diesel/gasoline/kerosene)
- · Water/waste water
- Antifreeze
- · Windshield washer fluid
- · Waste oil
- DEF

Typical Applications

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

Part Number	25T460	25T461	25T462
No Monthly Fees	•		
No Maintenance Contract	•	•	•
Easy-to-Use Software for Monitoring Data	•	•	•
Easily Replaceable Batteries	•	•	•
NPT Thread for Easy Installation	•	•	•
Viewable Data with Other Models of Pulse Level	•	•	•
LTE Cellular Coverage		•	•
Works in Remote Locations		•	•
30 ft Tanks			•
Hazardous Environment Approved			•



















Ultrasonic Wi-Fi



No Ongoing Fees

Wi-Fi connection.

Long Battery Life

7-year battery life with replaceable C batteries.

On-Demand Reading

Ability to take reading at any time.

Ultrasonic Sensor

Measure tanks 10 ft tall.

Ultrasonic Cellular



Cellular Communication

No need for local network connection.

Long Battery Life

5-year battery life with replaceable C batteries.

On-Demand Reading

Ability to take reading at any time.

Ultrasonic Sensor

Measure tanks 13 ft tall.

Pressure Cellular



Cellular Communication

No need for local network connection.

Long Battery Life

Up to 10-year battery life.

Submersible Pressure Sensor

Measure tanks up to 30 ft tall.

Hazardous-Location Rating

Approved for use with flammable fluids such as gasoline.

Pulse® Level Fluid Management

















Technical Specifications

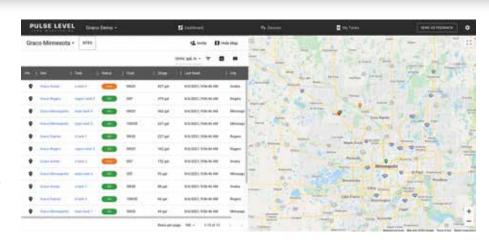
	Ultrasonic Wi-Fi TLM	Ultrasonic Cellular TLM	Pressure Cellular TLM	
Compatible Fluids	Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water	Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water	Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water, gasoline	
Tank Depth Measurement Range	5.0 in to 9 ft-7 in	5.0 in to 13 ft	30 ft	
Fluid Level Measurement Accuracy	+/- 1.0 in	+/- 1.0 in	+/- 1.0 in	
Mounting	1.25 in,1.5 in and 2.0 in threaded NPT connector	1.25 in,1.5 in and 2.0 in threaded NPT connector	1 in threaded NPT connector with wall-mounted logger	
Clearance Height Above Tank for TLM	7.5 in	7.5 in	N/A	
Weight	0.5 lb	1.17 lb with batteries	0.75 lb	
RF Frequency Band	2.412 GHz - 2.462 GHz	LTE CAT-M1	LTE CAT-M1	
Maximum RF Transmit Power	18 dBm	23 dBm	23 dBm	
Operating Temperature Range	0°F to 122°F	0°F to 122°F	-4°F to 131°F	
Batteries	Li-SOC12 Size R14, 3.6V C-cell	4 x Alkaline C-cell	Graco Part Number 19D216	
Battery Life	7.5 years* from activation	5 years*	10 years* from activation	
Enclosure (Ingress Protection)	IP67	IP67	IP68	
Tanks	•			
Maximum Volume	999,999 gallons	999,999 gallons	999,999 gallons	
Maximum Height	9 ft-7 in	13 ft	30 ft	
Altitude	<6,000 ft	<6,000 ft	<6,000 ft	

^{*}The battery life is based upon four (4) measurements per day and one (1) data drop per day from a location with adequate coverage, and a normal distribution over the operating temperature range centered at +25°C (77°F).

Pulse Level Software

Pulse Level software has a simple intuitive design and gives you powerful information at your fingertips. Get a quick consolidated view of key sites via a specifically designed web page. Track tank levels at a glance, generate customizable reports and automated email alerts, and share critical information with other key decision makers.

- Intuitive alerts ensure your customers never run out of products
- See the status of each customer site on an easy-to-view map
- Advanced reporting create and schedule automated reports to track history and see usage trends
- Expand the capabilities of your existing software systems with tank data from Pulse Level's API
- Simple annual and monthly billing options, or avoid charges altogether with Wi-Fi
- Allow customer to find insights on their own tanks by sharing Pulse Level data
- Use customers' existing Pulse Pro hardware to avoid the cost of additional monitors



Traditional Box – Wired Fluid Control Components











Ordering Information

In-Line Meters

Part Number	Description
236763	Electronic pulse output meter (quarts)
236764	Electronic pulse output meter (liters)
215474	Mechanical pulse output 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 antifreeze, 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				
Ready-light kit, signals operator when dispensing can begin. Includes "ready to dispense" indicator light (239019), strainer (240417), fluid solend 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				

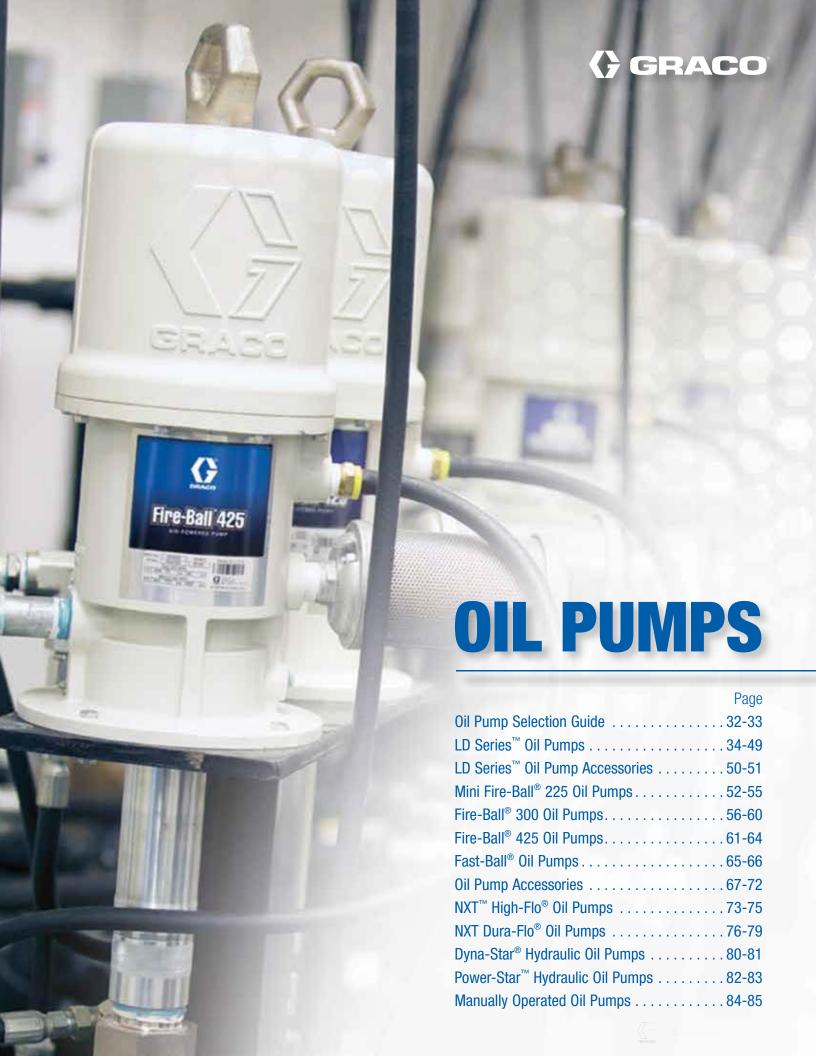
Installation Components

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

Notes		



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)	66
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)	34
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)	34
Mini Fire-Ball 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)	52
Fire-Ball 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)	56
Fire-Ball 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)	61
Fire-Ball 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)	61
Fire-Ball 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)	61

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)	73
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)	73
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)	73
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)	75
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)	76
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)	76
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)	76

Pump Family and Fluid Pressure Ratio	Typical Applications	Maximum Output Flow Rate	Maximum Fluid Output Pressure	Hydraulic Inlet	Hydraulic Outlet	Fluid Inlet	Fluid Outlet	Maximum Hydraulic Inlet Pressure	Reference Page
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)	80
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)	80
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)	82











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

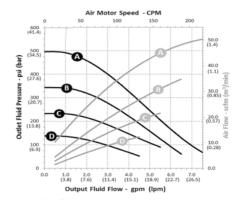
- · Automotive dealerships
- · Fast lube centers
- Service shops

Typical Fluids Handled

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

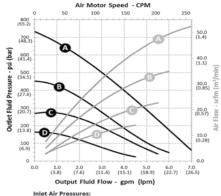
Pump Performance

LD Series 3:1 Pumps



(A) = 150 psi (10.3 bar) (B) = 100 psi (6.9 bar) (C) = 70 psi (4.8 bar) (D) = 40 psi (2.8 bar) Test Fluid :

LD Series 5:1 Pumps



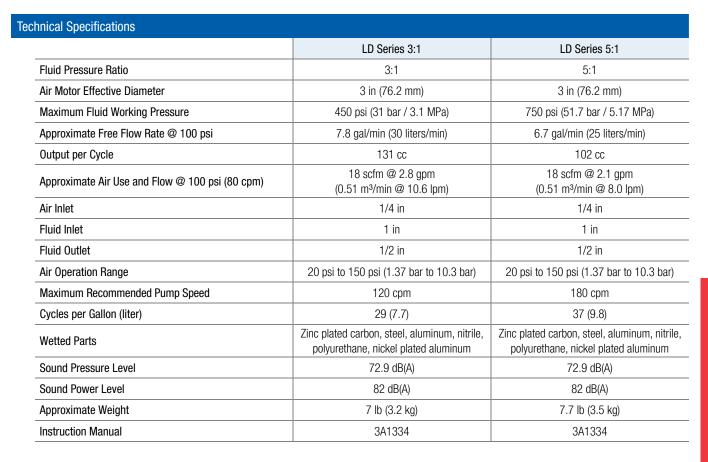












Ordering Information

LD Series 3:1 Pumps

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

LD Series 5:1 Pumps

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

LD Series 3:1 Oil Pump Packages





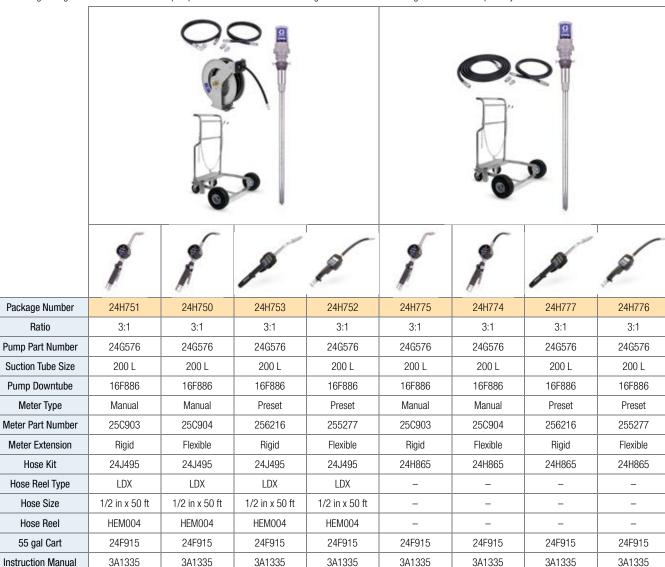


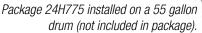


Ordering Information

Mobile Oil Packages - Cart

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







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Mobile Oil Packages - Dolly

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



LD Series 3:1 Oil Pump Packages









Ordering Information

Wall Mount Oil Packages

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



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



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

Stationary Oil Packages

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

Package Number	24H800	24H799	24H802	24H801
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Suction Tube Size	Universal	Universal	Universal	Universal
Pump Downtube	16F878	16F878	16F878	16F878
Meter Type	Manual	Manual	Preset	Preset
Meter Part Number	250903	250904	256216	255277
Meter Extension	Rigid	Flexible	Rigid	Flexible
Hose Kit	24H859	24H859	24H859	24H859
Instruction Manual	3A1335	3A1335	3A1335	3A1335









Stationary Oil Packages - Tote

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



LD Series 3:1 Oil Pump Packages









Ordering Information

Deluxe Stationary Oil Packages - Tote

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













Tank Mount Oil Packages

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



LD Series 3:1 Oil Pump Packages









Ordering Information

Deluxe Tank Mount Oil Packages

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



42









Mobile Oil Packages - Cart

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







LD Series 5:1 Oil Pump Packages









Ordering Information

Mobile Oil Packages - Dolly

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









>> Ordering Information

Wall Mount Oil Packages

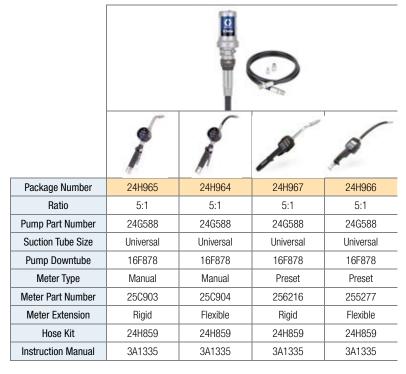
Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



	A. Mari
24H836	24H842
5:1	5:1
24G588	24G588
55 gal drum	275 gal tote
24F935	24H666
-	24H859
24F910	24F910
3A1335	3A1335
	5:1 24G588 55 gal drum 24F935 — 24F910

Stationary Oil Packages

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





tote (not included in package).

LD Series 5:1 Oil Pump Packages





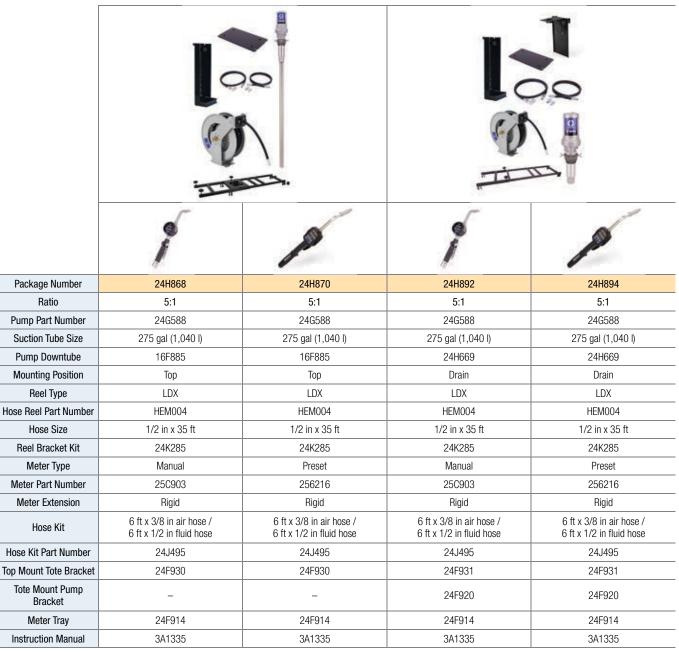




Ordering Information

Stationary Oil Packages - Tote

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











Deluxe Stationary Oil Packages - Tote

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







	3.723	.560
Package Number	24K839	24K843
Ratio	5:1	5:1
Pump Part Number	24G588	24G588
Suction Tube Length	275 gal (1,040 l)	275 gal (1,040 l)
Pump Downtube	16F885	16F885
Reel Type	SDX	SDX
Hose Reel Part Number	SDM6HB	SDM6HB
Hose Reel Bracket	24K285	24K285
Meter Type	Preset	Manual
Meter Part Number	256216	25C904
Meter Extension	Rigid	Flexible
Hoses and Fittings	24J495	24J495
Top Mount Tote Bracket	24F930	24F930
Meter Tray	24F914	24F914
Instruction Manual	3A1335	3A1335

LD Series 5:1 Oil Pump Packages









Ordering Information

Oil Packages – Tank Mount

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











Deluxe Oil Packages - Tank Mount

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



LD Series Oil Pump Accessories







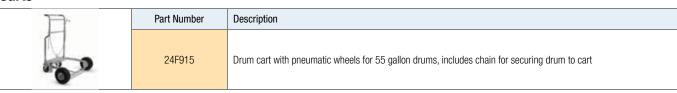


Ordering Information

Air Regulators

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

Carts



LD Drum Dollies



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

Downtubes

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

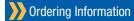


Part Number	Description	Kit Includes			
Part Number	Description	Fluid Hose Air Hose Swivel		Union Fitting	
24H865	15 ft LD pump fluid hose kit	1/2 in x 15 ft	3/8 in x 6 ft	157705	156684
24H859	6 ft LD pump fluid hose kit	1/2 in x 6 ft	3/8 in x 6 ft	157705	156684









Suction Kits

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

Mounting Hardware

<u> </u>	Part Number	Description
	24F910	LD Series pump wall mounting bracket
	24F918	Bung adapter

Tote Mount Accessories

18	Part Number	Description
	24F914	Meter drip tray for mounting to the side of IBC tote
41	24F932	LD Series reel bracket for mounting reel to IBC top mount tote bracket (24F930 and 24F920)
Ti NA	24F931	Tote mounting bracket to mount reel on top of IBC tote (pump mounting bracket is not included)
2 10 100 10 10 10 10 10 10 10 10 10 10 10	24F930	Top of tote mounting bracket. For mounting LD Series pump in top of IBC tote.
	24F920	Bracket for mounting LD Series pump on the side of IBC tote
	24K285	Bracket for mounting SDX Series hose reel to IBC tote mounting bracket 24F930 (24F930 bracket sold separately)









Perfect for Medium Pressure, Low-Volume Applications

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

Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Extended Seal Life

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

Superior Sealing

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

Corrosion-Resistant

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

Typical Applications

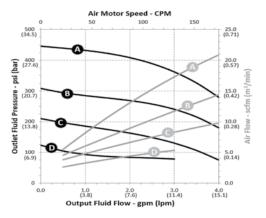
- Automotive dealerships
- · Fast lube centers
- Service shops
- Heavy-duty dealerships
- · Fleet services facilities
- In-plant
- · Lube trucks
- Mining

Typical Fluids Handled

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

Pump Performance

Mini Fire-Ball 225 3:1 Pumps







52







chnical 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, aluminum, 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			
248097	3:1 Universal oil pump with suction tube (15C502) and bung adapter (222308)			

Mini Fire-Ball 225 3:1 Oil Pump Packages









Ordering Information

Oil Packages



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

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









Bulk Oil Dispensing Packages



^{*}Order (218549) (1/2 in x 24 in) hose kit separately.

No.









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

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

Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Superior Sealing

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

Extended Seal Life

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

Corrosion-Resistant

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

Typical Applications

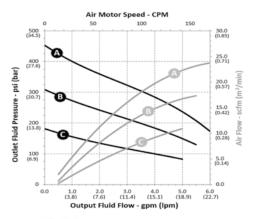
- Automotive dealerships
- · Fast lube centers
- Service shops
- Heavy-duty dealerships
- · Fleet services facilities
- In-plant
- · Lube trucks
- Mining

Typical Fluids Handled

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

Pump Performance

Fire-Ball 300 5:1 Pumps



Inlet Air Pressures:











echnical 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, aluminum, Buna-N				
Sound Pressure Level	77.8 dB(A)				
Sound Power Level	85.6 dB(A)				
Approximate Weight	17 lb (7.7 kg)				
Instruction Manual	306518				

>>> Ordering Information

Fire-Ball 300 5:1 Pumps

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

Fire-Ball 300 5:1 Oil Pump Packages









Ordering Information

Oil Pump Packages



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

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









Bulk Oil Dispensing Packages



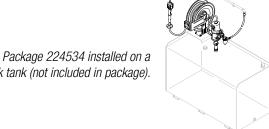
218549

Hose

Thermal Relief Valve

Hose Reel Inlet Kit

(Not Included)



220598

218549

bulk tank (not included in package).

220598

218549

222063

237893

218549

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

Fire-Ball 300 5:1 Oil Pump Packages









Ordering Information

Lube Truck Packages

Package Number

Ratio

Package Type

Maximum

Container Size Pump

Dispense/

Hose Fitting Kit

Fluid Hose Size

Cover Pump Clamp

Hold Down Kit

Bung Adapter

Instruction Manual



207361

307883

204095

207361 224579

307883

222061

307883

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









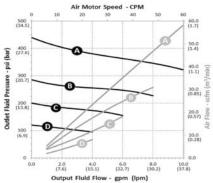




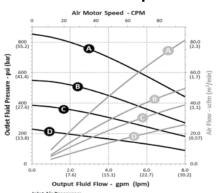


Pump Performance

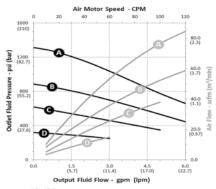
Fire-Ball 425 3:1 Pumps



Fire-Ball 425 6:1 Pumps



Fire-Ball 425 10:1 Pumps









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

Ordering Information

Fire-Ball 425 Pumps

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









Oil Pump Packages



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

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

Fire-Ball 425 Oil Pump Packages









>>> Ordering Information

Lube Truck Packages



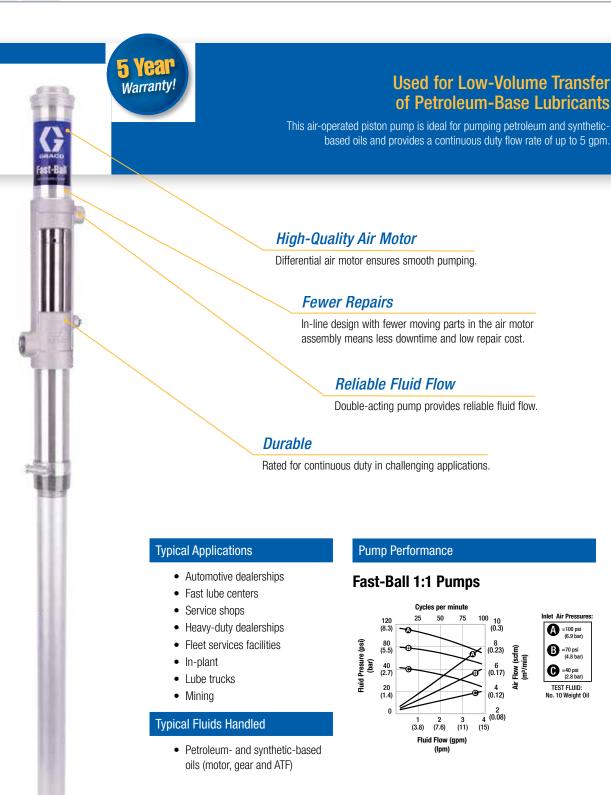
Package Number	206656*	222067*		
Ratio	10:1	10:1		
Package Type	Lube truck	Lube truck		
Maximum Container Size	55 gal (200 l) closed-head	55 gal (200 l) closed-head		
Pump	222065	222095		
Dispense/ Hose Fitting Kit 222066		222066		
Fluid Hose Size	1/2 in x 6 ft (12.7 mm x 1.8 m)	1/2 in x 6 ft (12.7 mm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

 $^{^{\}star}\text{Order}$ 1/2 in (12.7 mm) air regulator (104266) and gauge (100960) separately.









Inlet Air Pressi

=100 psi (6.9 bar)

B =70 psi (4.8 bar)

(2.8 bar)

TEST FLUID: No. 10 Weight Oil

Fast-Ball 1:1 Oil Pumps







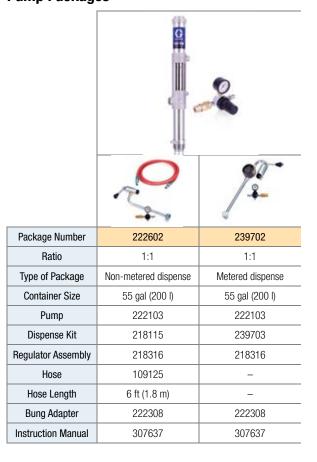
Technical Specifications					
Fluid Pressure Ratio	1:1				
Air Motor Effective Diameter	1.4 in (35.6 mm)				
Maximum Fluid Working Pressure	180 psi (12.5 bar / 1.25 MPa)				
Approximate Free Flow Rate @ 100 psi	5 gal/min (19 liters/min)				
Output per Cycle	151 cc				
Approximate Air Use and Flow @ 100 psi (80 cpm)	7 scfm @ 3.1 gpm (0.20 m³/min @ 11.7 lpm)				
Air Inlet	1/4 in NPT(F)				
Fluid Inlet	1-1/2 in NPT(F)				
Fluid Outlet	3/4 in NPT(F)				
Air Operation Range	40 psi to 180 psi (2.8 bar to 12.4 bar)				
Maximum Recommended Pump Speed	100 cpm				
Cycles per Gallon	25 cpg				
Cycles per Liter	6.6 cpl				
Wetted Parts	CS, polyurethane				
Sound Pressure Level	74.9 dB(A)				
Sound Power Level	83.5 dB(A)				
Approximate Weight	8 lb to 14 lb (3 kg to 7 kg)				
Instruction Manual	307906				

Ordering Information

Pumps



Pump Packages



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

Oil Pump Mounting and Accessory Guide

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

^{*}Required

Ordering Information

Bleed-Type Air Shut-Off Valves

0 0	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

	Description Compatible Pumps	Compatible			Includes		
Part Number			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

7	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

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

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

A^	Part Number	Part Number Description		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



Downtube - Universal

11	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)

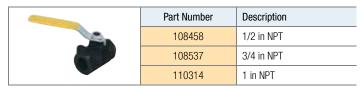
Drum Covers

	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	

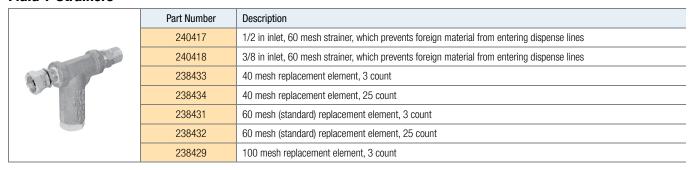
Drum Elevator

 Part Number	Description	Includes			
Fait 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



Fluid T-Strainers



>>> 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

			Connection	Includes			
72	Part Number Description		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
00	222063	Use with drum-mounted pumps	6 ft	203320	155494	220591	155470

Hose and Fitting Kits for Fire-Ball 425 Pumps



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

>>> Ordering Information

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

	Part Number	Description
540	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
6 0	205054	Band dolly	5 gal (20 l)
00	204144	Band dolly	10 gal (40 l) 16 gal (60 l)
	203622	Caster base	5 gal (20 l) 10 gal (40 l) 16 gal (60 l)

Runaway Valve

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

-	Part Number	Inlet
post.	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			
1	Part Number	Description	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 Number Container Size Type of Mount Con	Companible Fullips	Extension Size	Extension	Foot Spacer			
238592	16 gal (60 l)	Cover-mounted	E 10 11 1	14-1/2 in	191126	110127	
238593	55 gal (200 l)	Cover-mounted	Fast-Ball 1:1 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1	21-3/4 in	191128	110127	
238595	55 gal (200 l)	Bung-mounted		26 in	191130	110127	
238596	275 gal (1,100 l)	Bung-mounted		36 in	191131	110127	

Thermal Relief Valve Kits



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

Tools for Working on Fire-Ball Air Motors



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

Wall-Mounting Brackets

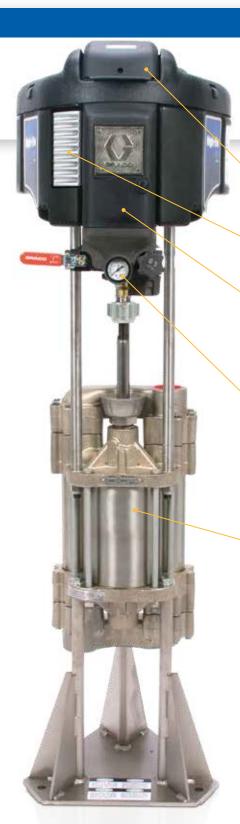


Part Number	Description	Compatible Pumps	
203987	Clamps onto universal pump tube	Fast-Ball 1:1 Mini Fire-Ball 300 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1	
238245	Mounts directly to pump flange	Fire-Ball 425 3:1, 6:1, 10:1	
236778	Provides mounting to wall surface by flange	Fire-Ball 425 3:1	









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)

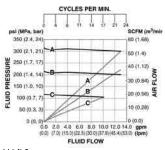






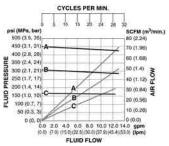
Pump Performance

NXT 3.5:1 High-Flo Pumps





NXT 4.5:1 High-Flo Pumps





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









Ordering Information

Oil Pump Packages with DataTrak

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

Oil Pump Packages without DataTrak

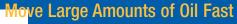
Package Number without DataTrak	24D602	24D603
Ratio	3.5:1	4.5:1
Mounting	255143 (Wall)	255143 (Wall)
Pump without DataTrak and Thermal Relief Kit	24D596	24D597
Output per Cycle	2,000 cc	1,500 cc
Output at 60 CPM	31.5 gpm (119.2 lpm)	23.2 gpm (87.8 lpm)
Motor Size	NXT 3400	NXT 3400
Maximum Fluid Pressure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











d to outperform and outlast all other pumps on the market – with its long-life n and intuitive, easy-to-use controls – the NXT Dura-Flo pump is the best 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)

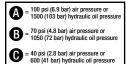






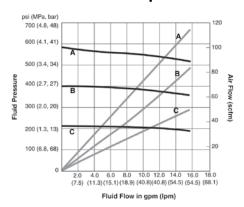
Pump Performance

Inlet Pressures:

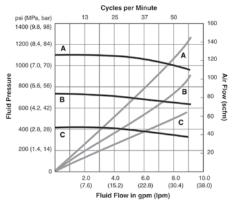


TEST FLUID: No. 10 Weight Oil

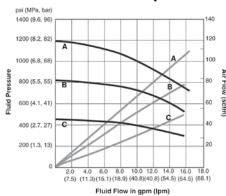
NXT Dura-Flo 6:1 Pumps



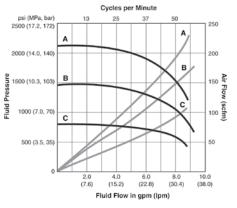
NXT Dura-Flo 12:1 Pumps



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 – 311829 Motor – 311238

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Ordering Information

Oil Pump Packages with DataTrak

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

Oil Pump Packages without DataTrak

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











Field-Proven, Energy-Efficient

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

Built-In Reliability

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

Quiet Hydraulic Motor

No need for add-on mufflers.

High-Efficiency Motor

Uses less hydraulic oil.

Typical Applications

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

Typical Fluids Handled

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

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







>>> Ordering Information

Dyna-Star Hydraulic Pumps

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

Accessories

Drum Covers



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

Hydraulic Fluid Controls

Required for each pump.

28	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.
35.5	237904	1:1 Dyna-Star thermal relief valve, 1,600 psi (110 bar)

Wall-Mounting Brackets

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









Field Proven, Energy Efficient

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

Built-In Reliability

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

Quiet Hydraulic Motor

No need for add-on mufflers.

High-Efficiency Motor

Uses less hydraulic oil.

Typical Applications

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

Typical Fluids Handled

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

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

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

Wall-Mounting Bracket



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









Ordering Information

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

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



^{*}Hydraulic; can be used for gear oil dispensing.









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

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



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

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

All pumps come with suction tube and bung adapter.



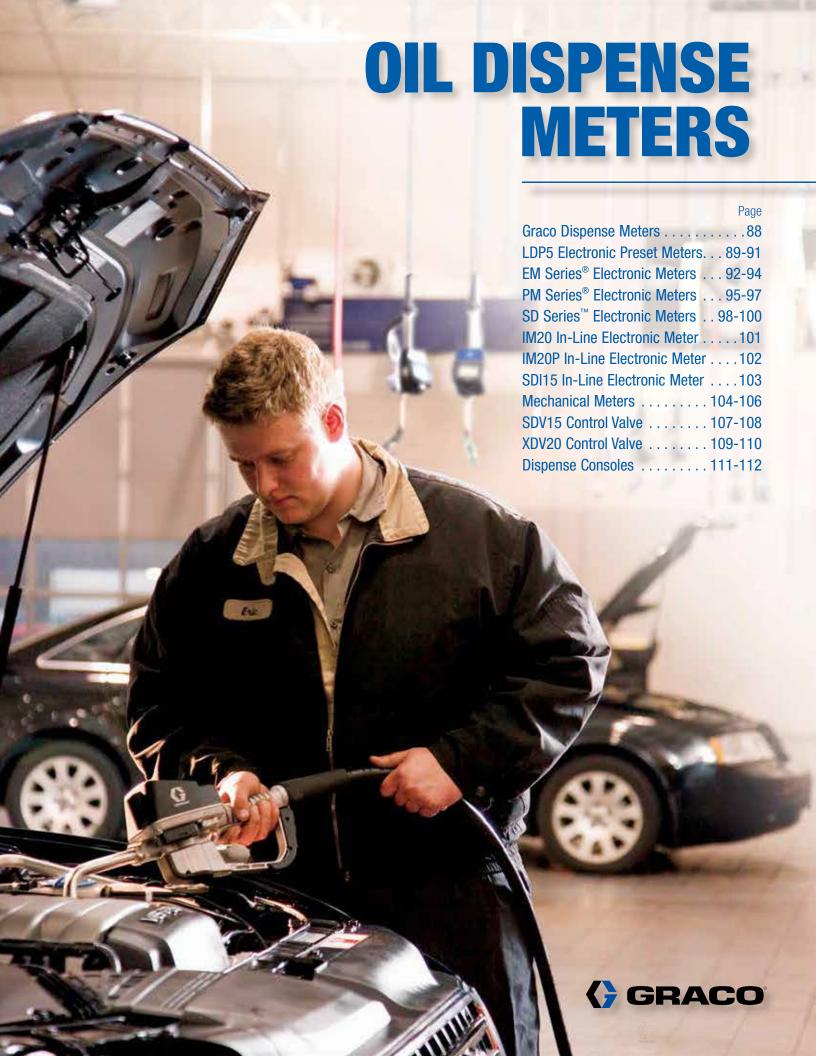
Package Number	114829	226290	
Type of Pump	Lever ⁽¹⁾	Rotary ⁽²⁾	
Fluids Handled	Petroleum-based products, antifreeze	Petroleum-based products	
Delivery Rate	0.1 gal (0.4 l) per downstroke	1 gal (3.7 l) per 18 cycles	
Fluid Hose	-	-	
Instruction Manual	-	306876	

^{*}Drums not included.

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

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

Notes	



Graco Dispense Meters

	Fluid	Manual/ Preset	Maximum Working Pressure	Maximum Flow Rate	Intended Use	Warranty	Reference Pages
LDP5 Electronic Preset Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	Preset	1,000 psi (69 bar)	5 gpm (19 lpm)	Indoor	5 years overall (2 years electronics)	89-91
EM Series Electronic Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	Manual	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	5 years overall (3 years electronics)	92-94
PM Series Electronic Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	Preset	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	5 years overall (3 years electronics)	95-97
SD Series Electronic Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	Manual/ Preset	1,500 psi (103.4 bar)	14 gpm (53 lpm)	Indoor/ Limited Outdoor	7 years overall (3 years electronics)	98-100
IM20 In-Line Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	In-Line	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	5 years overall (3 years electronics)	101
IM20P In-Line Meter	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	In-Line	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	1 year	102
SDI15 In-Line Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze Diesel exhaust fluid	In-Line	1,500 psi (103.4 bar)	15 gpm (56.8 lpm)	Indoor	7 years overall (3 years electronics)	103
Mechanical Meters	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	Manual/ Preset	1,500 psi (103.4 bar)	8 gpm (30 lpm)	Indoor/ Outdoor	5 years	104-106
SDV15 Control Valves	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	N/A	1,500 psi (103.4 bar)	15 gpm (56.8 lpm)	Indoor/ Outdoor	7 years	107-108
XDV20 Control Valves	Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze	N/A	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	7 years	109-110









Perfect for Lower-Volume Service Applications

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



Keeps dispenses precise.

Operator Controls

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



Fluid Swivel

1/2 inch fluid inlet.

Fluid Extension Kits

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)
- Antifreeze

recrimical Specifications	5
Flow Dongo*	

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				

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

^{**}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.











>>> Ordering Information

LDP5 Electronic Preset Meters

Automatic nozzle included

	Extension	Inlot in (mm)	Part Number	Package Includes		
	EXTENSION	Inlet in (mm)	Part Number	Trigger Guard	Swivel Cover	
A	Flexible		258694	Yes	Yes	
Jan .	Rigid	1/2 (13)	256216	Yes	Yes	
P	Flexible		255277	No	No	

Nozzle Extension Kits

Extension Fluid		Nozzle Description	Part Number
	Oil/Antifreeze	Automatic, thermally compensating	239949
Rigid	Gear lube	Automatic, thermally compensating	239950
	Gear lube	Automatic	238887
Flexible	Oil/Antifreeze	Automatic, thermally compensating	239951
Nozzle Only	Oil/Antifreeze/Gear lube	Automatic, thermally compensating	239829
INOZZIG OTIIY	Oil/Antifreeze/Gear lube	Automatic	238371











EM5/PM5 to LD Series Upgrade Kits

- 15-249	Part Number	Description
P	257350	EM5 to LDM5
P	257351	PM5 to LDP5

Accessories

223	Part Number	Description
0	240416	Inlet swivel
	114017	Inlet filter, 80 mesh
-0	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
GRAÇO	191294	Black
GRAÇO	191287	Red
CMAÇO	191288	Blue
CMACO	191289	Green
	191295	Yellow

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
0 graco	17S659	Red
O GRACO	17S660	Blue
OGRACO	17S661	Green
O GRACO	17S662	Yellow
OGRACO	17S663	White

EM® Series Electronic Manual Dispense Meters











Low-Flow and High-Flow Manual Meters

first electronic meter, the EM Series features a Our legacy valve handle features a long-life service. These meters are weather-rated and rshest shop conditions.

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, antifreeze 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)
- Antifreeze

echnical Specifications	EM8	<u>EM20</u>	
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 ps	i (102 bar)	
Unit of Measure	Quarts, gallor	ns, pints, liters	
Accuracy/Repeatability	±0	.5%	
Inlet	1/2 NPT	1/2 NPT or 3/4 NPT	
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 į	per DIN 40050-9	
Battery	2 (AAA) alkaline	or 2 (AAA) lithium	
Wetted Parts	Aluminum, 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		

^{*} 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.



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EM® Series Electronic Manual Dispense Meters

Ordering Information

		Extension	Inlet in (mm)	Nozzle Type	Part Number	
		Flexible			Non-drip, manual open/close	25C904
		riexible		Automatic, non-drip, quick-close	26C526	
EM8		Rigid	1/2 (13)	Non-drip, manual open/close	25C903	
		nigiu		Automatic, non-drip, quick-close	26C525	
		Gear		Non-drip, quick-close	25C905	
		Flexible	1/2 (13)	High-flow, non-drip, quick-close	25C915	
EM20	50	T IEXIDIE	3/4 (19)	THYTHOW, HOTHUTH, QUICK-CLOSE	25C918	
EN	E	D. U.	1/2 (13)		25C916	
	, A	Rigid	3/4 (19)	High-flow, non-drip, quick-close	25C919	

		Inlet in (mm)	Part Number
EM8		1/2 (13)	25D433
EM20	A	1/2 (13)	25D436
E	77	3/4 (19)	25D437

EM® Series Electronic Manual Dispense Meters











>>> Ordering Information

Nozzle and Extension Kits

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
1			Non-drip, manual open/close	26C267	EM8
	Rigid	Oil	Automatic, non-drip, quick-close	255852	EM8
			Non-drip, quick-close	255921	EM20
1	Rigid	Gear lube	Non-drip, quick-close	255854	EM8
-			Non-drip, manual open/close	26C268	EM8
11	Flexible	Oil	Automatic, non-drip, quick-close	255853	EM8
		Non-drip, quick-close	255859	EM20	
00	Nozzle Only	Oil/Antifreeze	Non-drip, manual open/close	17T207	EM8
70	Nozzle Only	Oil/Antifreeze	Oil/Antifreeze Non-drip, quick-close		EM20
4	Nozzle Only	Gear lube Non-drip, quick-close		255470	EM8
	Flexible	Oil/Antifreeze	Oil/Antifreeze Extension only, 2 ft length		EM8

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

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

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		











Heavy-Duty Preset Meters for the Toughest Jobs

Use Graco's PM8 and PM20 electronic preset meters to dispense fluids quickly, reliably and accurately to vehicles, trucks, yellow iron machines and more in the most challenging, extreme environments. Designed with high-quality robust materials to protect key components, these powerful meters can take a beating without fail for optimal productivity.

Proven in Harsh Conditions

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

Long Battery Life

Features four easily-replaceable AA batteries.

High Flow Ra

Capable of up to 20 gpm (75.7 lpm).



gear lube.

Long-Life Valve Design

Poppet design offers exceptional valve life for heavy-usage applications.

Easy Valve Operation

Ergonomic four-finger trigger for user comfort protected by a robust full-length trigger guard.

Durable Cast Body

Designed for heavy-duty and harsh applications.

Typical Applications

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

Typical Fluids Handled

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

nical Specifications	PM8	<u>PM20</u>		
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, gallons, pints, liters			
Accuracy/Repeatability	±0	.5%		
Inlet	1/2 NPT	1/2 NPT or 3/4 NPT		
Outlet	3/4 straight thr	read O-ring boss		
Maximum Dispense	19,999.9 units			
Maximum Preset Dispense	19,999 units			
Operating Temperature Range*	-20°F to 125°F (-29°C to 52°C)			
Storage Temperature Range	-40°F to 185°F (-40°C to 85°C)			
Outdoor Use	Yes – IP69k as	s per IEC 60529		
Battery	4 (AA) alkaline	or 4 (AA) lithium		
Wetted Parts	Aluminum, stainless steel, carbon	steel, acetal, nitrile rubber, Geolast™		
Meter Pressure Loss**	60 psi @ 6 gpm	150 psi @ 12 gpm		
Dimensions	14.25 in L x 4.1 in W x 7.2 in H (30	6.2 cm L x 10.4 cm W x 18.3 cm H)		
Weight	5.2 lbs (2.4 kg)			
Warranty	Five years overall, three years e	electronics and 1 year wear parts		
Instruction Manual	3A8307			

^{*}Lithium ion batteries are required if operating below 0°F (-18°C). **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.

PM[™] Series Electronic Preset Dispense Meters









Ordering Information

		Fluid	Extension	Flow Range gpm (lpm)	Inlet in (mm)	Part Number
	8	Oil	Flexible			273157
	B	Antifreeze 0.25-8		25U086		
PM8		Oil	Rigid	(1-30)	1/2 (13)	273156
PN	D	Antifreeze	riigid		172 (13)	25U085
		Gear Lube	Rigid 0.25-5 (1-19)		273158	
	6		Flexible	0.25-20 (1-76)	1/2 (13)	273166
PM20	B	Oil	TIONIDIO		3/4 (19)	273168
			Rigid		1/2 (13)	273165
	B				3/4 (19)	273167











Nozzle and Extension Kits

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
_			Non-drip, manual open/close	26C267	PM8
di la	Rigid	Oil	Automatic, non-drip, quick-close	255852	PM8
			Non-drip, quick-close	255857	PM20
1	Rigid	Gear lube	Non-drip, quick-close	255854	PM8
1			Non-drip, manual open/close	26C268	PM8
The state of the s	Flexible	Oil	Automatic, non-drip, quick-close	255853	PM8
			Non-drip, quick-close	255858	PM20
0	Nozzle Only	Oil/Antifreeze	Non-drip, manual open/close	17T207	PM8
10	Nozzle Only	Oil/Antifreeze	Non-drip, quick-close	255461	PM20
90	Nozzle Only	Gear lube	Non-drip, quick-close	255470	PM8
	Flexible	Oil/Antifreeze	Extension only, 2 ft length	131733	PM8

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
O GRACO	17S659	Red
O GRACO	17S660	Blue
O GRACO	17S661	Green
O annca	17S662	Yellow
OGRACO	17S663	White

Accessories

Part Number	Description
18F169	Electronic control replacement
273181	Black impact guard for PM8 or PM20
25D906	Replacement inlet screen for oil/gear lube
25U000	Replacement inlet screen for antifreeze
18F174	Valve replacement for oil/gear lube
18F175	Valve replacement for antifreeze
18F170	Replacement gasket seals for electronics



GRACO









Premium Quality and Performance with Ergonomic Design

Graco's premium SD meters were desig robust meters feature high flow, improv dispense amounts easy in all lighting co



Large LCD High-Contrast Display

High-contrast screen for reading in all lighting conditions with easy setup and navigation. See what fluid the meter is setup for and exactly how much you are dispensing.

Available in Two Models

Manual or preset options. Preset is compatible with Pulse $^{\text{\tiny TM}}$ FC and upgradeable to Pulse $^{\text{\tiny TM}}$ Pro.

High Flow

Available in two models -8 gpm (30 lpm) or 18 gpm (68 lpm).

Durable Cast Body

Designed for heavy duty and harsh applications.

Automatic Quick-Close Nozzle

Choose from rigid or flexible extensions with non-drip performance.

Long-Life Valve Design

Cartridge design for fewer and easier repairs.

Ergonomic Handle Design

Four-finger trigger and easy-to-use button pad reduce worker fatigue.

Typical Applications

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

Typical Fluids Handled

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

chnical Specifications				
Flow Range*	0.25 gpm to 18 gpm (0.9 lpm to 68 lpm)			
Maximum Working Pressure	1,500 psi (103.4 bar)			
Units of Measure	Pints, quarts, gallons, liters (factory set to quarts)			
Metered Dispense Valve Accuracy**	+/- 0.5%			
Inlet	1/2 in–14 NPT or 3/4 in–14 NPT			
Outlet	3/4 in–16 straight thread O-ring Boss			
Maximum Recorded Dispense	9999 units (factory set in quarts)			
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)			
Battery Life***	6 months			
Wetted Parts	Aluminum, stainless steel, PBT, nitrile rubber, zinc plated carbon steel, nickel plated carbon steel			
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	5.3 lb (2.4 kg)			
Warranty	Five years overall, three years electronics			
Instruction Manual	3A6711 and 3A6673			

^{*}Tested in 10W motor oil. Flow rates vary with fluid pressure, temperature and viscosity.

 $^{^{\}star\star}$ At 2.5 gpm (9.5 lpm), at 70°F (21°C), with 10-weight oil and 1 gallon dispensed. May require calibration.

^{***}Battery required to meet life expectancy: Energizer® Alkaline E91.













SD Electronic Meters





	Dispense Type	Flow Range gpm (lpm)	Fluid	Extension	Inlet in (NPT)	Part Number	
			0.11	Rigid	1/2	26C384	
			Oil	Flexible	1/2	26C354	
SDP8	Preset (Pulse FC-enabled)	0.25–8 (1–30)	Antifreeze	Rigid	1/2	26C385	
0,	(r dioo r o oridorod)	(. 55)	Antineeze	Flexible	1/2	26C355	
			Gear lube	Rigid	1/2	26C358	
				Flexible	1/2	26C357	
SDP18	Preset	0.25–18	Oil	Flexible	3/4	26C361	
S	(Pulse FC-enabled) (1–68)	(1–68)	Oii	Rigid	3/4	26C360	
				Rigid	1/2	26C356	
	Manual 0.25–8 (1–30)		Oil	Flexible	1/2	25M406	
		0.25–8		Rigid	1/2	25M404	
SD M8			Antifreeze	Flexible	1/2	25M407	
SD		iviariuai (1–3	(1–30)	Antineeze	Rigid	1/2	25M405
			Gear Lube	Rigid	1/2	25M413	
			Windshield Wash	Rigid	1/2	25M415	
				Flexible	3/4	25M417	
SDM18	Manual	0.25–18	Oil	Rigid	3/4	25M416	
SDI	iviailual	(1–68)	UII	Flexible	1/2	25M411	
				Rigid	1/2	25M410	

Nozzle and Extension Kits

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
(F-20)		Oil	Automatic, non-drip, quick-close	255852	SDM8/SDP8
	Rigid	Antifreeze	Non-drip, manual open/close	26C267	SDM8/SDP8
- 8		Oil/Antifreeze	High-flow, non-drip, quick-close	255857	SDM18/SDP18
1	Rigid	Gear lube	Non-drip, quick-close	255854	SDM8/SDP8
400		Oil	Automatic, non-drip, quick-close	255853	SDM8/SDP8
	Flexible	Antifreeze	Non-drip, manual open/close	26C268	SDM8/SDP8
		Oil/Antifreeze	High-flow, non-drip, quick-close	255858	SDM18/SDP18
F	Nozzle Only	Oil	Automatic, non-drip, quick-close	17R220	SDM8/SDP8
3	Nozzle Only	Gear lube	Non-drip, quick-close	255470	SDM8/SDP8
0	Nozzle Only	Oil/Antifreeze	Non-drip, manual open/close	17T207	SDM8/SDP8
	Flexible	Oil/Antifreeze	Extension only, 2 ft length	131733	SDM8/SDP8
~ b	Rigid	Windshield wash	Extension, nozzle	273079	SDM8











Ordering Information

Filter Kits for SD Series Meters

 Part Number	Description
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
8	131226	Pulse/SD meter boot

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
GORACO	17\$659	Red
Q GRACO	17S660	Blue
O GRACO	17S661	Green
O annoa	17S662	Yellow
OGRACO	17S663	White











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 ag



Easy-to-Read LCD

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)
- Antifreeze

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

2 (AAA) alkaline or (2) AAA lithium

Five years overall, three years electronics

Aluminum, stainless steel, carbon steel, acetal, nitrile rubber, Geolast $^{\text{TM}}$

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)

0.25 to 20 gpm (0.95 to 75.7 lpm)

*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.

3A5588

35 psi @ 12 gpm

1 lb. 4 oz. (0.57 kg)

Ordering Information

Instruction Manual

Battery

Wetted Parts

Dimensions

Weight

Warranty

Meter Pressure Loss*

Technical Specifications
Flow Range*

Part Number	Description
25C841	IM20 high-flow, high-pressure in-line meter









Robust Electric In-Line Meter for Wired Indoor and Outdoor Applications

The IM20P wired electronic meter delivers precise in-line dispenses for in-plant, industrial and other applications. Its heavy-duty aluminum exterior and sealed electronics protect against corrosion inside or outside the plant. Designed and manufactured by a proven leader in meter technology, it's capable of flow rates up to 20 gpm (75.7 lpm) for optimal performance.

IM20P

High Flow

Flow rates up to 20 gpm (75.7 lpm) for faster dispense.

Rugged Aluminum Body

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

Large Inlet and Outlet Porting

Minimal pressure drop to increase production.

Sealed Electronics

Meters are suitable for indoor or outdoor use. IP69K rated.

Wired Convenience

Easily integrated with PLC (programmable logic controller).

Typical Applications

- · Heavy-duty mobile service trucks
- Mining
- In-plant

Typical Fluids Handled

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

Ordering Information

Part Number	Description	
133480	IM20P high-flow, high-pressure in-line pulser meter	

Flow Range*	0.25 gpm to 20 gpm (0.95 lpm to 75.7 lpm)
Maximum Working Pressure	1,500 psi (10 MPa, 102 bar)
Units of Measure	User-defined based on pulse output
Accuracy	+/- 0.5%
Inlet/Outlet	3/4 in NPT
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
Operating Voltage	12-24 VDC
Operating Current	26–51 mA
Wire Connection	2-wire (18 ga) PNP or NPN
Wetted Parts	Aluminum, acetal, nitrile, rubber
Meter Pressure Loss*	35 psi (2.41 bar) @ 12 gpm (45.4 lpm)
Dimensions	5.8 in L x 3.4 in W x 2.9 in H (14.7 cm L x 8.6 cm W x 7.4 cm H)
Weight	1.3 lb (0.59 kg)
Warranty	One year
Instruction Manual	3A8625

^{*}Tested in 10W oil at 70°F. Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type.

















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.

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)
- Antifreeze
- · Windshield washer fluid
- · Diesel exhaust fluid



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.

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)		
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	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		

^{*}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, antifreeze 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)











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)
- Antifreeze

recnnicai	Spe	ecifications
	_	4.

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
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, aluminum, 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

^{*}Tested with 10W motor oil. Minimum/maximum flow rates will vary with fluid viscosity.











Manual Meters

Extension	Model Description	Part Number
Davis	4/16 Liter	24U956
Bare	4/16 Quart	24U959

Manual Meter Packages

	Extension	Model Description	Part Number	Replacement Nozzle/Extension Kit
0	Flexible	4/16 Liter	24V043	255853
		4/16 Quart	24V034	255853
	Rigid	4/16 Liter	24V046	255852
		4/16 Quart	24V037	255852
	Gear Lube	4/16 Liter	24V049	255854
	Gear Lube	4/16 Quart	24V040	255854

Preset Meters

	Extension	Model Description	Part Number
	Bare	60 Gallon	24U950
		60 Liter	24U953
		60 Quart	24U947











>>> Ordering Information

Preset Meter Packages

	Extension	Model	Part Number	Package Includes
	Extension	Description	Part Number	Nozzle Extension
		60 Gallon	24Z129	255853
	Flexible	60 Liter	24Z132	255853
15/1		60 Quart	24Z126	255853
	Rigid	60 Gallon	24Z128	255852
The same		60 Liter	24Z131	255852
61		60 Quart	24Z125	255852
	Short Rigid	60 Gallon	24V055	24W641
		60 Liter	24V058	24W641
6011		60 Quart	24V052	24W641
	Gear Lube	60 Gallon	24Z130	255854
		60 Liter	24Z133	255854
Till.		60 Quart	24Z127	255854

Nozzle Extensions

	Fluid	Extension	Compatible Meter	Part Number
		Flexible	Manual	255853
W. Carlot	Oil	Rigid	Manual	255852
		Short Rigid	Preset	24W641
	Antifreeze	Flexible	Manual/Preset	24W306
		Rigid	Manual/Preset	255855
	Oil/Antifreeze	Flexible (extension only – 2 ft)	Manual/Preset	131733
1	Gear lube	Rigid	Manual	255854

Accessories

- 0	Part Number	Description
90	256164	Strainer filter kit, 10-pack











For Standard and Heavier-Duty Applications

rships, fleet maintenance er-volume in-plant applications er fluid usage.

Fluid Extension Kits

Choose from rigid or flexible extensions.

Lock-On/Lock-Off Trigger

For hands-free operation.

Sturdy Cast Body

Designed for use in tough environments.

Fluid Swivel

1/2 inch fluid inlet.

Typical Applications

- · 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)
- Antifreeze

echnical Specifications	
Flow Range*	15 gpm (56.8 lpm)
Maximum Working Pressure	1,500 psi (103 bar)
Inlet	1/2 in NPT
Outlet	3/4-16 straight thread 0-ring boss
Operating Temperature Range	-40°F to 180°F (-40°C to 82°C)
Outdoor Use	Yes
Wetted Parts	Aluminum, SST, CS, acetal, nitrile rubber, tpe
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	312789

^{*}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

700	Fluid	Extension	Inlet in (mm)	Part Number
	Oil	Rigid		247712
A	- Oil	Flexible		247713
A	- Antifreeze	Rigid	1/2 (13)	247715
M		Flexible		247716
1	Gear	Gear		247714

SDV15 Bare Control Valve

	Inlet in (mm)	Part Number
OF THE PARTY	1/2 (13)	247717

High Flow Nozzles with Extension

Extension	Part Number
Rigid	255857
Flexible	255858

Filter Kit

	Description	Part Number
0 1	Strainer filter kit	256164

Quick Close Nozzle

Extension sold separately.

	Fluid	Part Number
F	Oil	17R220
F	Antifreeze	255460
40	Gear lube	255470
I	Oil/Antifreeze (high-flow)	255461









For Standard and Heavier-Duty Applications

Designed to perform in larger dealerships, fleet maintenance smunicipal garages and higher-volume in-plant applications wit 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

Te

Meets standard and high flow requirements.



- 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)
- Antifreeze

echnical 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
Outlet	7/8-14 straight thread O-ring boss
Operating Temperature Range	-40°F to 180°F (-40°C to 82°C)
Outdoor Use	Yes
Wetted Parts	Aluminum, 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

^{*}Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet fitting and nozzle type.











XDV20 Control Valve

Includes high flow, quick-close nozzle.

	Extension	Inlet in (mm)	Part Number
and the	Pigid	1/2 (13)	247718
1	Rigid	3/4 (19)	247722
A	Flexible	1/2 (13)	247721
	Flexible	3/4 (19)	247723

XDV20 Bare Control Valve

- Con	Inlet in (mm)	Part Number
10	1/2 (13)	247724
1 1	3/4 (19)	247725

Accessories

	Part Number	Description
	255793	Quick-close high-flow nozzle for oil, ATF and antifreeze
1	255859	Flexible extension with quick-close nozzle (255793)
4	255921	Rigid extension with quick-close nozzle (255793)

Lubricant Dispense Consoles

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

Part Number 222629	Part Number Description		Package Includes			
	Description	Dispense Valve Brackets (qty)	Water Bib Brackets (qty)			
	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
1	110285	Pistol-grip dispense valve bracket
4	196471	Dispense valve bracket for LDP5, EM8 and EM20 meters
D	249440	Dispense valve bracket for SD/Matrix meters

Dispense Consoles



>>> Ordering Information

Oil Dispense Bar

2	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.
	239706	Meter kit for adding IM5 electronic totalizing meter to dispense valve. Reads in gallons, quarts, pints and liters.

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)	116-122
Mini Fire-Ball 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)	123-126 141-144
Fire-Ball 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)	127-129 141-144
Fire-Ball 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)	127-138 130-134 141-144
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)	135-136 142-144
Fire-Ball 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)	135-137 139-145
Fire-Ball 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)	40-100 psi (2.8-7 bar)	134-136 138-145
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)	40-100 psi (2.8-7 bar)	146-147

Grease Pump Selection Guide

Pump Family and Fluid Pressure Ratio	Typical Applications	Annual Usage	Air Inlet	Fluid Outlet	Air Operation Range	Referenc 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)	148-149 151-152
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)	148-149 152
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)	148-149 152
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)	148 150-152
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)	148 150-152
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)	148 150-152

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)	7,500 psi (517 bar)	3/8 in NPT(F)	3/4 in NPT(F)	1/2 in NPT(F)	1,500 psi (102 bar)	153-154
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)	7,500 psi (517 bar)	3/4 in -16 JIC (37° Flare)	3/4 in NPT(F)	1/2 in NPT(F)	600 psi (41 bar)	153-154
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)	2,300 psi (159 bar)	3/4 in NPT(F)	1 in NPT(F)	1-1/2 in NPT(F)	1,500 psi (102 bar)	155-156

LD Series[™] 50:1 Grease Pumps







Durable and hardworking

Stay ahead of the competition with LD Series pumps. These affordable and full-featured pumps are designed for lowervolume (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

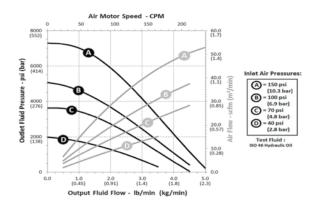
- Automotive dealerships
- · Fast lube centers
- · Service shops
- · Lube trucks

Typical Fluids Handled

• Grease up to NLGI #2

Pump Performance

LD Series 50:1 Pumps





echnical 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, acetal				
Sound Pressure Level	72.9 dB(A)				
Sound Power Level	82 dB(A)				
	35 lb drum – 11.2 lb (5.1 kg)				
Approximate Weight	120 lb drum – 15.0 lb (6.8 kg)				
To be all a Marcol	400 lb drum – 17.0 lb (7.7 kg)				
Instruction Manual	3A1334				

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

Grease Pumps and Packages

LD Series 50:1 Grease Pump Packages



Ordering Information

35 lb Grease Packages



118



120 lb Grease Packages





400 lb Grease Packages





LD Pro-Shot™ Non-Metered Grease Valves



Tec	hnical Specification	ns
	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

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

LD Series 50:1 Grease Pump Accessories



Ordering Information

Adjustable Bung Adapter

	Part Number	Description
	24P623	Adjustable bung adapter for LD pumps

Air Regulators

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

Carts

D	Part Number	Description
M_	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
	24F906	Cover for open-head 400 lb (182 kg) drums

LD Drum Dollies

9,	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

89	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				
			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) (with 90° swivel) x 6 ft	24H858	3/8 in x 6 ft	156823





Perfect for Medium Pressure, Low Volume Applications

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

Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Extended Seal Life

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

Superior Sealing

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

Corrosion-Resistant

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

Typical Applications

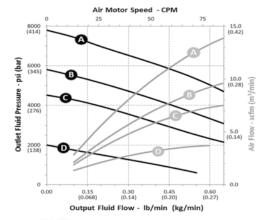
- · Automotive dealerships
- · Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- · Lube trucks
- Mining

Typical Fluids Handled

Grease up to NLGI #2

Pump Performance

Mini Fire-Ball 225 Pumps







Mini Fire-Ball® 225 Grease Pumps



echnical 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	



35 lb and 50 lb Grease Packages



Package 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
Dispense Hose Kit 236058 236058	236058	236058		
Ses	12 ft Hose	109151	109151	109151
Dispense Kit Includes	Air Coupler	114558	114558	114558
Air Fitting		169971	169971	169971
bense	Z-Swivel	202577	202577	202577
Pro-Shot Valve		242056	242056	242056
Follower Plate		24F901	**	**
	Drum Cover	222059	24R350	24R350
	Portable Base	-	-	203650
ln	struction Manual	309967	309967	309967



 $^{^*}$ 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.



120 lb and 400 lb Grease Packages



^{*}Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.





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.

Durable

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Extended Seal Life

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

Superior Sealing

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

Corrosion-Resistant

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

Typical Applications

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

Typical Fluids Handled

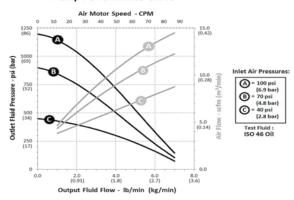
· Grease up to NLGI #2



Pump Performance

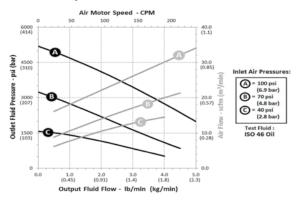
Fire-Ball 300 15:1 Pumps

Pump Performance Curve



Fire-Ball 300 50:1 Pumps

Pump Performance Curve



	Fire-Ball 300 15:1	Fire-Ball 300 50:1
	1.110 = 0.111	1.110 = 21111 0000 0001
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/mir
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, aluminum, PTFE, nitrile rubber, leather	Steel, brass, aluminum, 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



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)	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
S	Air Fitting	-	169971	169971
clude	Closed Nipple	156849	156849	156849
Dispense Kit Includes	Z-Swivel	202577	202577	202577
ense	Fitting(s)	169971	-	-
Dispe	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
Ins	struction Manual	307882	307882	307882



204351 307878

Ordering Information

50:1 25 to 50 lb Grease Pump Packages



307878

307878

307878

307878

307878

Inductor Plate

Instruction Manual

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^{*}Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

^{**}Order follower plate 220654 separately, if needed.



50:1 120 lb Grease Pump Packages



^{*}Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.



50:1 120 lb Grease Pump Packages (Cont.)



Package Number		225014*	222073*
1	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	-
olude	Air Coupler	-	-
弃	Air Fitting	-	-
Air Coupler Air Fitting Z-swivel Fitting(s)		-	-
Fitting(s)		155494/155541	-
	Dispenser	-	-
Dispenser Part Number		-	-
	Fluid Hose Size	See kit above	-
	Air Hose Size	See kit above	-
	Follower Plate	24F902	-
Drum Cover		24R350	_
Holster		-	-
Portable Base		-	-
	Elevator	-	204121
	Pump Support	-	222074
	Hold Down Kit	-	-
In	struction Manual	307880	306523

^{*}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*
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
6 ft Coupled Hose		203320	_
善 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

^{*}Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

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50:1 Grease Pump Lube Truck Packages



Package 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)
Pι	ımp Part Number	239887	239888
Dispense Kits		222072	222072
səpr	Fluid Hose	1/4 in x 6 ft	1/4 in x 6 ft
Dispense Kit Includes	Hose Part Number	109150	109150
8 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

^{*}Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

Package Number

Type of Package

Ratio

Dispense Kits

Fluid Hose

Fitting(s)

Air Hose Size

Air Regulator

Air Shut-Off Valve

Installation Kit

Instruction Manual

309350



Ordering Information

50:1 Grease Pump Side Pocket and Horizontal Mount Packages



309350





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.

Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Extended Seal Life

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

Superior Sealing

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

Corrosion-Resistant

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

Typical Applications

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

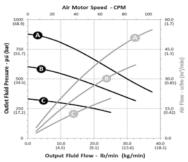
Typical Fluids Handled

• Grease up to NLGI #2



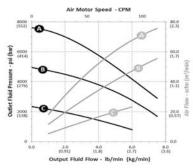
Pump Performance

Fire-Ball 425 10:1 Pumps



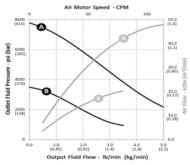


Fire-Ball 425 50:1 Pumps





Fire-Ball 425 75:1 Pumps





nical 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/n
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 cpp	15.1 cpp	22.7 cpp
Cycles per Kg	6 cpk	33 cpk	50 cpk
Wetted Parts	Steel, brass, aluminum, leather, Buna-N	CS, brass, aluminum, leather	CS, brass, aluminum, 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

^{*}Includes 2 in NPT Bung Adapter (part number 222308).



50:1 120 lb and 400 lb Grease Pump Packages



Package Number		223108*	225781*	226018*
Type of Package		Stationary Supply	Stationary Supply	Stationary Supply Topper-Inductor
	Ratio	50:1	50:1	50:1
	Container Size	120 lb (55 kg)	400 lb (180 kg)	400 lb (180 kg)
Pι	ımp Part Number	205394	205395	205395
	Dispense Kits	222076	222076	205102
səpr	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
Fluid Hose Hose Part Number 6 ft Coupled Hose Fitting(s)		109163	109163	109163
ense K	6 ft Coupled Hose	205418	205418	-
Fitting(s)		155470/155494	155470/155494	156859/196220/205528
	Air Hose Size	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
In	struction Manual	307880	307880	306556

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



75:1 120 lb and 400 lb Grease Pump Packages



Package Number		244635*	244636*	244637*
Type of Package		Stationary Cover-Mount	Stationary Cover-Mount	Stationary Inductor
	Ratio	75:1	75:1	75:1
Container Size		120 lb (55 kg)	400 lb (180 kg)	400 lb (180 kg)
Pı	ump Part Number	239729	239730	239730
	Dispense Kits	222076	222076	205102
ndes	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
Fluid Hose Hose Part Number 6 ft Coupled Hose Fitting(s)		109163	109163	109163
6 ft Coupled Hose		205418	205418	-
Fitting(s)		155470/155494	155470/155494	156859/196220/205528
Air Hose Size		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
In	struction Manual	307880	307880	306556

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



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



^{*}Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately.

^{**}Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.



Grease Pump RAM Packages



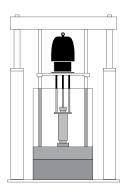


		Part 257435 (Ram Assembly) not shown	Part 25/435 (Ram Assembly) not shown	
Package Number		244905	244906	
Type of Package		Stationary Ram	Stationary Ram	
Ratio		50:1	75:1	
	Container Size	400 lb (180 kg)	400 lb (180 kg)	
Pump Part Number		Fire-Ball 425 – 205395	Fire-Ball 425 – 239730	
	Dispense Kits	222076	222076	
səpn	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	
Fluid Hose Hose Part Number 6 ft Coupled Hose Fitting(s)		109163	109163	
6 ft Coupled Hose		205418	205418	
Fitting(s)		155470/155494	155470/155494	
Air Hose Size		1/2 in x 6 ft	1/2 in x 6 ft	
Ram		257435	257435	
Adapter Kit		224266	224266	
Air Regulator and Gauge		*	244844	
Ram Plate Seal Kit		247335	247335	
	Pump Mount Kit	247337	247337	
In	struction Manual	309345	309345	

^{*}Air gauge included with RAM controller.

RAM-Mount

- Force feed high volume pumps
- · Extreme viscous grease
- Reduce waste
- · Clean and convenient method of drum change





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





Air Regulators

0
-7

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



				Incli	udes	
Part Number	Pressure Rating	Compatible Pumps	6 ft Air Hose	Air Hose Swivel Elbow	6 ft Fluid Hose	Fluid Hose Swivel Elbow
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



Drum Covers

	Part Number Description		Compatible Pumps
	222059	Cover for 35 lb (16 kg) pails	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

 Part Number	Description		Includes	
rait Nullibei	Description -	Cover Support	Drum Elevator	Air Control Kit
241663	Air-powered elevator to speed up 400 lb (180 kg) drum changes	207562	204385	207561

Mounting Accessories for Fire-Ball Pumps

(1)	Part Number	Description
-0	948393	Flange Adapter (male) for Fire-Ball 300 Pumps
80	948392	Flange Adapter (male) for Fire-Ball 425 Pumps
00	512874	Coupler (female), 3 in thread





Follower Plates

i diower i lates							
	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

-0-	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



Portable Bases

	Part Number	Description
9,	131183	Drum dolly, 35 lb (16 kg)
9,	131184	Drum dolly, 120 lb (54 kg)
(20)	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)
44	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



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

Swivel

0 Table 17	Part Number	Description
3000	202577	Z-Swivel allows non-binding movement for hard-to-reach locations, 1/4-18 NPT



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 32 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 NXT^{TM} pump technology.

Multiple Tank Options

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

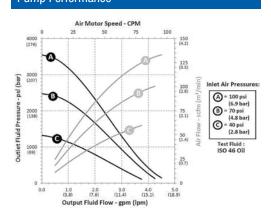
Typical Applications

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

Typical Fluids Handled

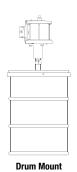
• Grease up to NLGI #2

Pump Performance

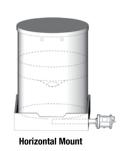


Technical Specifications Fluid Pressure Ratio 36:1 Air Pressure Operating Range 40-100 psi (3-7 bar) Maximum Working Pressure 3,600 psi (248 bar) Maximum Recommended Continuous Pump Speed 60 cycles per minute Air Motor Effective Diameter 7.5 in (190 mm) Stroke 4.75 in (121 mm) Air Inlet 1/2 in NPT Fluid Outlet 1 in NPT Maximum Delivery 32 lb/min (13.6 kg/min) Pump Weight 59 lb (26.8 kg) Steel, brass, Buna-N, urethane, Wetted Parts ductile iron, aluminum Sound Power (measured at 70 psi [4.8 bar], 77.2 dBa 20 CPM per ISO-9414-2) 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 Five years overall and Warranty 1 year wear parts Instruction Manual 3A5363











Ordering Information

GT 750 36:1 Grease Pumps

1020	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
	25P544	GT 750, 36:1 Grease Pump, 400 lb length inductor

Accessories

Cam Lock Adapters

	Part Number	Description
T	131380	Male Cam Lock Adapter – 3 in
	131394	Female Cam Lock Adapter – 3 in

Drum Covers

	Part Number	Description
	204574	Cover for 120 lb (54 kg) drums
	200326	Cover for 400 lb (182 kg) drums
	160754	Bung Adapter Plate (used to mount pump to drum cover) – 2 in

Follower Plates

	Part Number	Description
	223700	Follower plate for 120 lb (54 kg) drums
	223701	Follower plate for 400 lb (182 kg) drums





Move Large Amounts of Grease Fast

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

Optional DataTrak Control

Intuitive, easy-to-use $\mathsf{DataTrak}^{^\mathsf{TM}}$ 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



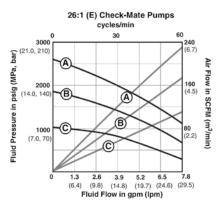
Pump Performance



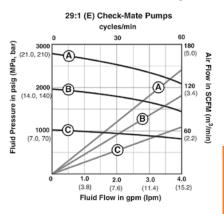
NXT 14:1 Check-Mate Pumps

14:1 (E) Check-Mate Pumps cycles/min 30 1600 (11.2, 112) Fluid Pressure in psig (MPa, bar) Air Flow in SCFM (m3/min) 1200 (8.4, 84) 120 (3.4) 800 B (5.6, 56) 400 © (2.8, 28)5.2 (6.4) (9.8) (14.8) (19.7) (24.6) (29.5) Fluid Flow in gpm (lpm)

NXT 26:1 Check-Mate Pumps



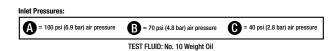
NXT 29:1 Check-Mate Pumps



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 cpp	1.0 срр	2.1 cpp
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 allosteel; 304, 316, 17-4PH and 440C grades of stainless steel acetal; carbon-filled PTFE; carb 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



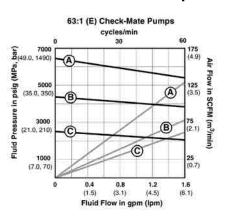
Pump Performance



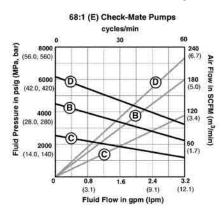
NXT 55:1 Check-Mate Pumps

55:1 (E) Check-Mate Pumps cycles/min Hind Areasure in bsid (MPa, 240) (A20, 450) Air Flow in SCFM (m3/min) (A) (B) (3.8) (7.6) (11.4) Fluid Flow in gpm (lpm)

NXT 63:1 Check-Mate Pumps



NXT 68:1 Check-Mate Pumps



	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 M
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
Max Recommended Pump Speed	20 cpm	20 cpm	20 cpm
Cycles per Pound	2.1 cpp	5.2 cpp	2.6 cpp
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 steel; 304, 316 and 17-4l grades of stainless steel; ac carbon-filled PTFE; CS; duc iron; eNi, Zn and chrome pla 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



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	223952	223952	223952	223952	223952	223952
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	223952	223952	223952	223952	223952	223952
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





RAM Pump Packages with DataTrak

Package Number	247979	247980	247981
Ratio	14:1	63:1	68:1
RAM System	CM53BN	CM17BN	CM2RBN
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	CM515N	CM155N	CM2L5N
3/4 in x 6 ft Air Hose	208610	208610	208610
1 in x 6 ft Fluid Hose	115042	244657	244657





Accessory Ordering Information

Seal Kit



Part Number	Description
25\$071	Nitrile seal kit for 400 lb (180 kg) drums





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

Fechnical 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

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



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



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)

^{*}Use with hold-down kit 222061. **Use with hold-down kit 207361.





Field-Proven, Energy-Efficient

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

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

Technical 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	

Viscount® II Pumps





>>> Ordering Information

Viscount II Pumps

Part Number	Description
222902	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); 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.



Manual Dispense from Bulk Containers



^{*} 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.

*** 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



Greace Valves

Grease valves							
	Fluid	Type	Maximum Working Pressure	Maximum Flow Rate	Intended Use	Warranty	Reference Pages
Accu-Shot™	NLGI #2	Metered	8,000 psi (552 bar)	2 lb/min 1 kg/min	Indoor/ Outdoor	1 year	159
Pro Shot™	Grease up to NLGI #2	Non- Metered	8,000 psi (552 bar)	2 lb/min 1 kg/min	Indoor/ Outdoor	1 year	160
Power Shot™	Grease up to NLGI #2	Booster	Supply 5,000 psi (345 bar) Output 18,000 psi (1,242 bar)	N/A	Indoor/ Outdoor	1 year	161

Grease Guns							
	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 (414 bar to 690 bar)	Cartridge/ bulk fill/ loader fill/ suction	Indoor/ Outdoor	1 year	162
Pneumatic	Grease up to NLGI #2	Pistol	6,000 psi (414 bar)	Bulk fill/ loader fill	Indoor/ Outdoor	1 year	162
Booster	Grease up to NLGI #2	Pistol	10,000 psi (690 bar)	Loader fill	Indoor/ Outdoor	1 year	162





For Heavy-Duty Applications

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

Easy-to-Read LCD

Easily reset electronic display.

Accurate Grease Metering

 \pm 3% accuracy with \pm 1% repeatability.

Battery Powered

Utilizes two standard AA alkaline batteries.

Handles Pressure Up to 5,000 psi (345 bar)

Flow up to 36 oz/min (1 kg/min).

al Applications

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

Typical Fluids Handled

• Grease up to NLGI #2

Technical Specifications						
٨	Maximum Working Pressure	5,000 psi (345 bar)				
Λ	Metering System	Oval gears				
Α	Accuracy	\pm 3% with grease consistency (grade NLGI) 2/3				
F	Repeatability (typical)	\pm 1% with grease consistency (grade NLGI) 2/3				
S	Storage Temperature Range	-4°F to 158°F (-20°C to 170°C)				
C	Operating Temperature Maximum	95 (%RU)				
В	Battery	Standard alkaline batteries 2 x 1.5 Volt Size AA				
Е	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)				
٧	Veight	2.2 lb (1.0 kg)				
V	Varranty	One year				
Ir	nstruction 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	Standard nozzie extension (200309) and 1/4 in NFT inlet	



For Heavy-Duty Applications

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





Protected by rigid guard.

Pressure-Assisted Trigger

For ease of operation.



With locking nut.

Rugged Design

For harsh environments.

Typical Applications

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

Typical Fluids Handled

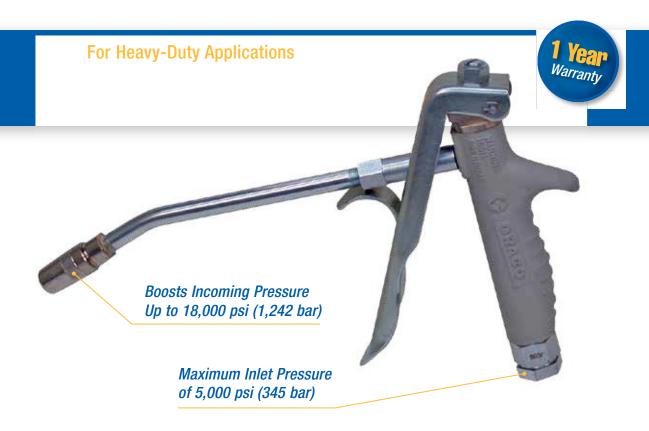
• Grease up to NLGI #2

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

Ordering Information

	Description	N	PT
	Description	1/4 in	3/8 in
1	Non-metered grease valve with standard nozzle extension (200389)	242056	242058
1	Bare non-metered grease valve only	242055	242057
1	Non-metered grease valve package. Includes Grease Valve (242056), Z-Swivel (202577) and Whip Hose (109148).	224872	-
1	Non-metered grease valve package. Includes Grease Valve (242055), coupler (200325) and Whip Hose (109145).	26C184	-





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

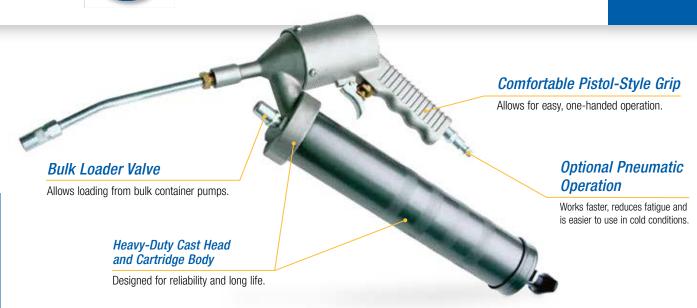
Part Number	Description
202579	Hose swivel (must be ordered separately)





Lever-Action and Pistol-Style Grease Dispensing Guns

Durable design for years of trouble-free use in demanding environments. Reduces downtime and is easy



Ordering Information

T 5-01	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		
1	203697	Booster	Pistol	10,000 (690)	Loader fill	Rigid extension		
	110218			6,000 (414)	Cartridge/bulk fill	Rigid extension and hydraulic coupler		
	110216		Lever			Rigid extension, hydraulic coupler and air bleeder valve		
K	110203	Manual	Di-t-1	Diotol	Pistol	10,000 (690)	Cartridge/ bulk fill/ loader fill	Rigid extension, hydraulic coupler and air bleeder valve
2	110202		FISIUI			12 in (30.4 cm) flexible extension, hydraulic coupler and air bleeder valve		
	110201		Suction	-	Suction	12 in (30.4 cm) clear plastic hose		

Accessories

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



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

Straight Swivels



	Maximum Working Pressure psi (bar)	NI	Part Number	
		Inlet	Outlet	Fait Number
	8,000 (500)	1/8 in	1/8 in	204082
	8,000 (500)	1/4 in	1/8 in	204083
ĺ	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)	1/2 in	1/2 in	207946

360° Swivels



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

Nozzles

Part Number	Number Description	
200389 Standard nozzle. Includes straight 6 in (15.2 cm), 1/8 NPT(M) extension tube (197471) and tapered coupler (200325).		
Swivel nozzle. Includes straight 6 in (15.2 cm), 1/8 NPT(M) extension tube (197471) and tapered nosi (200325). Coupler has 360° swivel adapter (203198) for added convenience.		
Swivel nozzle. Includes straight 12 in (30.4 cm), 1/8 NPT(M) extension tube (155836) and tapered nose co (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 connector (203497) for quick connection to any grease nozzle having tapered-nose coupler.		
		109145
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.	







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	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.		
Lock-sleeve connector. 1/8 NPT(F) outlet. Allows for quick connection to tapered-nose coupler. Inlet is grease fitting with sleeve to lock connector in place.		
Easy-fill valve. For faster loading of Graco hand grease guns with gun loaders. Replaces hydraulic fittin grease guns with 1/8 NPT(F).		
Grease loader valve. For use with lever-operated, high-volume grease pumps. Permits quick bulk filling hand-operated grease lever guns equipped with easy-fill valve 236171. Hydraulic adapter assortment package. Contains needle adapter (205568), plug adapter (205554), pusuadapter (201881), nylon needle adapter (205582), hydraulic-to-steel needle adapter (205532) and who 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













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



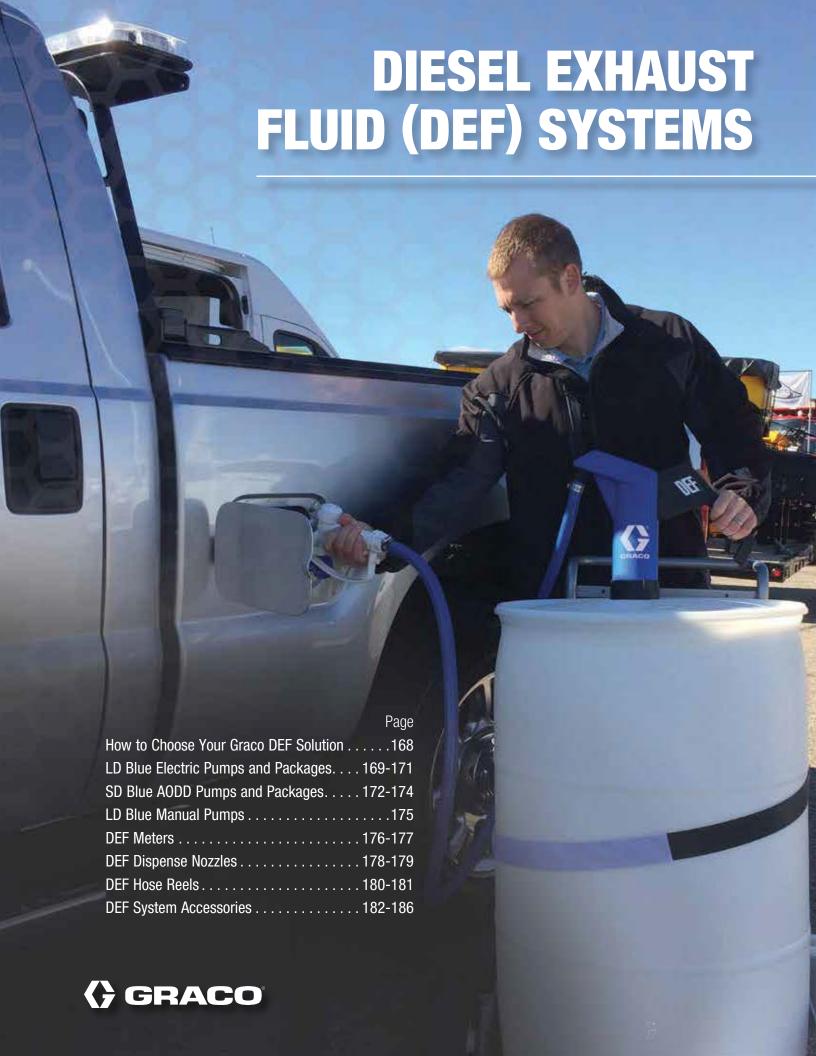
Grease Accessory Packages

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

Part Number -	Package Includes			
	Quantity	Grease Fitting No.	Shank	Description
202654	30	100054	9/32	1/8 NPT straight
	10	100970	9/32	1/8 NPT 30° angle
	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

202654

Notes		



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.





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 downtime and dispense materials quickly



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

Tec	Technical 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





LD Blue Electric Pump Packages







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.

Modular Air Valve

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
- · Service and fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks

Typical Fluids Handled

Diesel exhaust fluid

Tec	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)		
	Pump Inlet	3/4 in BSPP(F)		
	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



172



SD Blue Pump Tote Packages









	Deluxe		Standard	
Package Number	24F531	24F878	24V677	24V678
Mount Type	Tote/Wall	Tote/Wall	Tote/Wall	Tote/Wall
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 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).







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	nber Description	
127647	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 (125479)	
127875	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
125479	Drum length adjustable downtube for hand pump
125478	6 ft dispense hose with ball valve





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

Technical 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. Includes SDI15 Meter (24G738), Swivel (124964), Nipple Fitting (24H292), Adapter Fitting (16G760) and Elastomeric Seal (124965).





- 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

Accessories

4	Part Number	Description
	127800	Adapter – SD auto nozzle connection to LD meter







- 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
- · Optional mis-filling system to prevent mis-fills
- Stainless steel spout

To	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 or 3/4 in hose barb	1 in BSP or 3/4 in hose barb	
	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 Appli

- 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
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



Part Number	Description
125078	LD manual DEF nozzle with SST spout







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, overhead, wall, tote or utility truck
- 150 psi maximum pressure
- 1/2 in x 45 ft inlet hose with 1/2 in BSPT(M) swivel connection to provide leak-free connection

Typical Applications

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

Typical Fluids Handled

· Diesel exhaust fluid

Technical Specifications			
	Operating Temperature Range	-40°F to 158°F (-40°C to 70°C)	
	Wetted Parts	Hybrid polymer, brass, nitrile rubber	
	Sound Pressure Level	80 dB(A)	
	Sound Power Level	87 dB(A)	
	Instruction Manual	3A8216	

Ordering Information

Hose Reels

Part Number	Description
HEL015	LDX Series, DEF, 1/2 in (13 mm) inlet, 1/2 in x 45 ft (13 mm x 14 m) hose, BSPT

Accessories

Part Number	Description
25U370	Inlet kit
18F444	1/2 in BSPT to 3/4 in hose barb adapter
18F445	1/2 in to 3/4 in adapter, BSPT





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, overhead, 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	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	3A1767			

>>> 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



	Part Number	Description
	24W148	2 ft suction hose kit with (2) hose clamps
_ 	24W149	5 ft suction hose kit with (2) hose clamps
Standard	24W190	6 ft dispense hose kit with (2) hose clamps
S	24W154	12 ft dispense hose kit with (2) hose clamps
	24W161	20 ft dispense hose kit with (2) hose clamps
	124875	2 ft suction hose, 3/4 in BSPP(M) x cut end (inlet hose)
	124581	6 ft suction hose, 3/4 in BSPP(M) x cut end (inlet hose)
e e		12 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP
		12 ft dispense hose, 3/4 in BSPP x cut end
	124603	20 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP
	125074	20 ft dispense hose, 3/4 in BSPP x cut end
	125242	50 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP

Pump Handle



Part Number	Description
127646	Black handle for 12V DC pump



>>> Ordering Information

Fittings

rittiigs	Part Number	Description
	127656	1 in BSP(F) elbow fitting, black
•	127657	1 in BSP(F) x 3/4 in barb hose tail, black
00	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
Canal Property	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
P	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
5	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.



>>> 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^{III}) is designed for one-way, single-use applications. Engineered for use when operations require the container package to be used once, emptied and recycled.

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		
	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		
Ů	127796	Micro Matic RSV center downtube for 275 gal IBC tote		
Ů	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

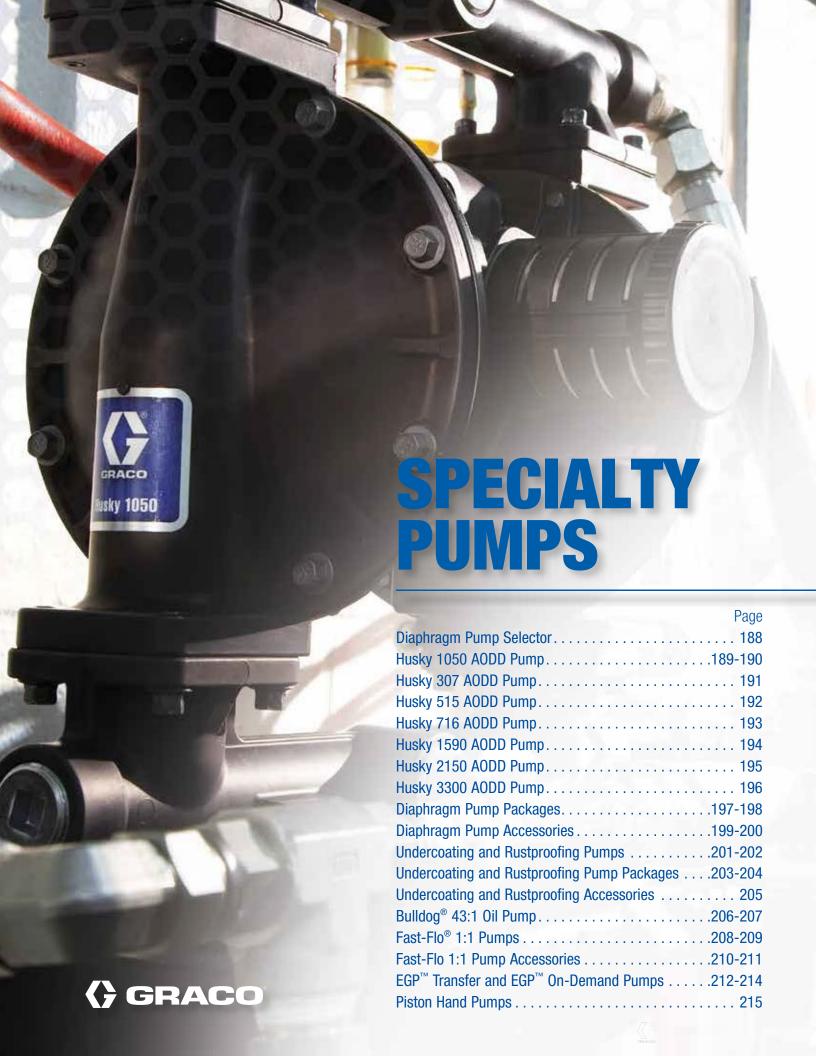


Ordering Information

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 Selection Guide











Husky Series	Part Number	Pump Description	Fluids	Listings	Max PSI	Reference Pages
Husky 307	D31255	Husky 307 Acetal – 3/8 in Acetal/TPE	Oil evacuation Oil transfer Water Antifreeze Windshield wash fluid	-	100 psi (6.9 bar)	193
Husky 515	243669	Husky 515 Acetal Split Inlet – 3/4 in Acetal/Buna Dual Inlet	50/50 windshield wash solution Water Antifreeze	-	100 psi (6.9 bar)	194
Husky 716	241906	Husky 716 Aluminum – 3/4 in Aluminum/Buna-N	Oil evacuation Oil transfer Water Antifreeze Windshield wash fluid	-	100 psi (6.9 bar)	195
Husky 1050	647016	Husky 1050 Aluminum – 1 in Aluminum/TPE	Water Antifreeze Fuel transfer Gasoline (up to 10% ethanol)	UL	100 psi (6.9 bar)	191-192
Husky 1050	647731	Husky 1050 Aluminum – 1 in Aluminum/Buna-N	Oil evacuation Oil transfer	UL	100 psi (6.9 bar)	191-192
Husky 1050	647648	Husky 1050 Aluminum – 1 in Aluminum/TPE	Fuel dispense Gasoline (up to 10% ethanol)	UL	50 psi (3.5 bar)	191-192
Husky 1590	DB3525	Husky 1590 Aluminum – 1.5 in Aluminum/TPE	Oil evacuation Oil transfer Water Antifreeze	-	120 psi (8.3 bar)	196
Husky 2150	DF3525	Husky 2150 Aluminum – 2 in Aluminum/TPE	Oil evacuation Oil transfer Water Antifreeze	-	120 psi (8.3 bar)	197
Husky 3300	652002	Husky 3300 Aluminum – 3 in Aluminum/TPE	Oil evacuation Oil transfer Water Antifreeze	-	125 psi (8.6 bar)	198













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, water and antifreeze dispense. Some models UL-approved for use in ohol 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

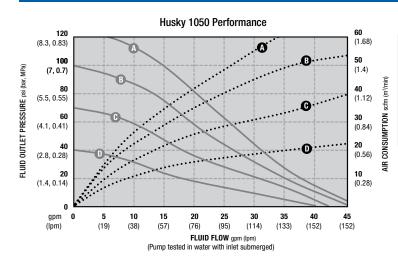
Increased number of ports for installation flexibility

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
- Antifreeze
- Washer fluid







Husky 1050 AODD Pump











hnical Specifications	
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 MPa
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	Aluminum, TPC-ET, acetal, PTFE, Buna-N
Non-wetted external parts	Aluminum, coated carbon steel
Instruction manual	313597

^{*}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 Aluminum Pump – 1 in, Aluminum/TPE	100 psi (6.9 bar)	Water / antifreeze / fuel transfer
647731	Husky 1050 Aluminum Pump – 1 in, Aluminum/Buna-N	100 psi (6.9 bar)	Oil evacuation / oil transfer
647648	Husky 1050 Aluminum Pump – 1 in, Aluminum/TPE	50 psi (3.5 bar)	Fuel dispense

^{**}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

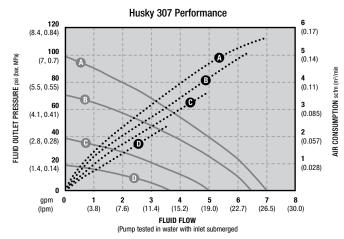
Technical Specifications			
Maximum fluid working pressure	100 psi (6.9 bar, 0.69 MPa)		
Maximum free-flow delivery*	7.0 gpm (26.5 lpm)		
Maximum pump speed	330 cpm		
Fluid displacement per cycle**	0.02 gal (0.076 l)		
Maximum suction lift	12 ft (3.7 m) dry		
Maximum-size pumpable solids	0.06 in (1.5 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		
*Flow rates are with muffler and do not vary based on diaphragm materi	al **Displacement per cycle may vary based on suction		

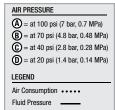
^{*}Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

Ordering Information

Husky 307 AODD Pump

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















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

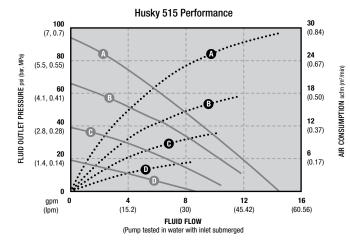
Technical Specifications			
Maximum fluid working pressure	100 psi (6.9 bar, 0.69 MPa)		
Maximum free-flow delivery*	15 gpm (57 l/min)		
Maximum pump speed	400 cpm		
Fluid displacement per cycle**	0.04 gal (0.15 l)		
Maximum suction lift	15 ft (4.5 m) dry, 25 ft (7.6 m) wet		
Maximum-size pumpable solids	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		
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^{*}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















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

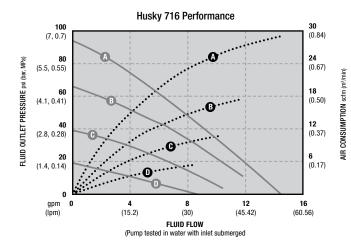
hnical Specifications	
Maximum fluid working pressure	100 psi (6.9 bar, 0.69 MPa)
Maximum free-flow delivery*	16 gpm (61 l/min)
Maximum pump speed	400 cpm
Fluid displacement per cycle**	0.04 gal (0.15 l)
Maximum suction lift	15 ft (4.5 m) dry, 25 ft (7.6 m) wet
Maximum-size pumpable solids	3/32 in (2.5 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, aluminum, stainless steel PTFE, zinc-plated steel
Instruction manual	308573
*Flow rates are with muffler and do not vary based on diaphragm materia	al **Displacement per cycle may vary based on suction

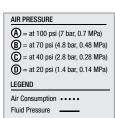
^{*}Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

>>> Ordering Information

Husky 716 AODD Pump

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















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

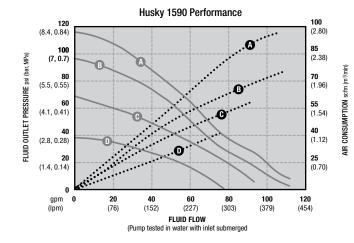
Maximum fluid working pressure120 psi (8.4 bar, 0.84 MPa)Maximum free-flow delivery*100 gpm (378.5 l/min)Maximum pump speed200 cpmFluid displacement per cycle**0.5 gal (1.96 l)Maximum suction lift20 ft (6.1 m) dryMaximum-size pumpable solids0.19 in (4.8 mm)
Maximum pump speed200 cpmFluid displacement per cycle**0.5 gal (1.96 l)Maximum suction lift20 ft (6.1 m) dry
Fluid displacement per cycle** 0.5 gal (1.96 l) Maximum suction lift 20 ft (6.1 m) dry
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
Maximum air consumption125 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, aluminum, TPE, PTFE
Instruction manual 308441

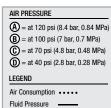
^{*}Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

Ordering Information

Husky 1590 AODD Pump

Part Number	Description
DB3525	Husky 1590 Aluminum – 1.5 in, Aluminum/TPE















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

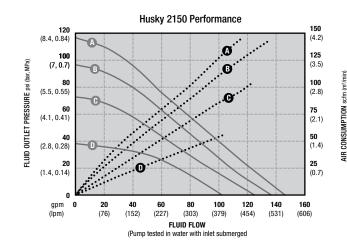
Technical Specifications			
Maximum fluid working pressure	120 psi (8.4 bar, 0.84 MPa)		
Maximum free-flow delivery*	150 gpm (568 l/min)		
Maximum pump speed	145 cpm		
Fluid displacement per cycle**	1.03 gal (3.9 l)		
Maximum suction lift	20 ft (6.1 m) dry		
Maximum-size pumpable solids	0.25 in (6.3 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, aluminum, TPE, PTFE		
Instruction manual	308368		
*Flow rates are with muffler and do not vary based on dianhragm materi	al **Displacement per cycle may yany based on suction		

^{*}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 Aluminum – 2 in, Aluminum/TPE















Husky 3300 AODD Pump

- 3 in fluid connection
- Fluid delivery up to 300 gpm (1,135.6 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, aluminum, carbon-coated steel, TPE		
Instruction manual	3A0410		

^{*}Maximum values with water as media at ambient temperature. Water level is approximately 3 ft above pump inlet.

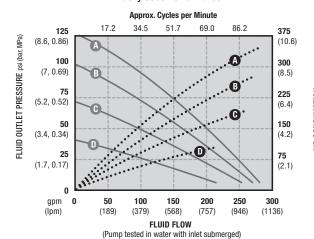
Ordering Information

Husky 3300 AODD Pump

Part Number	Description
652002	Husky 3300 Aluminum – 3 in, Aluminum/TPE

Pump Performance

Husky 3300 Performance



^{**}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.







Pre-Mixed Windshield Wash Solvent and Coolant Dispense



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







>>> Ordering Information

Bulk Antifreeze 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

Air Line Filters

#II	Husky Pump	307	515/716	1050	1590	2150	3300
of the second	Part Number	110146	110146	106148	106149	106150	106150

Air Regulator and Gauge

8	Husky Pump	307	515/716	1050	1590	2150	3300
	Part Number	110147	110147	246946	202858	206199	207651

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

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

Bleed-Type Air Valve

0 900	Husky Pump	307	515/716	1050	1590	2150	3300
	Part Number	110223	110223	110224	110225	110225	110226

Dual-Inlet Manifold

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

Grounding Wire and Clamp

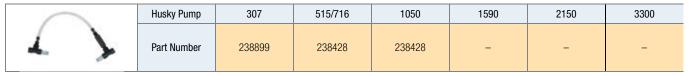
Husky Pump	307	515/716	1050	1590	2150	3300
Part Number	222011	222011	238909	222011	238909	238909

Suction Hose Kit

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

Diaphragm Pump Accessories

Thermal Relief Kit



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

					M				À
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





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 aluminum 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, aluminum 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

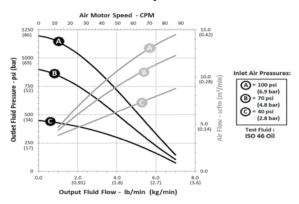
 Undercoating and rustproofing (Verify chemical compatibility for pump's wetted components with undercoating material supplier or contact Graco directly at 1-800-533-9655)

Undercoating and Rustproofing Pumps



Pump Performance

Fire-Ball 300 15:1 Pumps



nnical Specifications	
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



Ordering Information

Undercoating Packages



Package Number	222077	226342	226269
Type of Package	Stationary	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	-
Instruction Manual	307879	307879	307879

 $^{^\}star\!\text{Dispense}$ kit includes Air Regulator (110234), Air Gauge (100960), Spray Gun (234237)

Undercoating and Rustproofing Pump Packages



>>> Ordering Information

Spray Masking Package



Package Number	224826
Type of Package	Bung Mounted Stationary
Ratio	15:1
Container Size	400 lb (180 kg)
Pump Part Number	224825 (SST pump)
Flexible Downtube	224022*
Dispense Kit**	224023
Tip	286211/286621
Hose Length	25 ft (7.6 m)
Instruction Manual	308069

*224022 is long enough for 400 lb (180 kg) container, but can be trimmed to accommodate smaller containers. **Dispense kit includes Flex Plus™ spray gun (235457).



Ordering Information

Application Gun

002	2	E	6	
4	R	1		,
Y		15	L	

Part Number	Description
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 aluminum 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)

0
10

	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.











Reliable Operation in the Harshest Environments

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



Grounded lug prevents static buildup.

Easy Installation

Compact, low-profile design makes installation easier.

Corrosion-Resistant

Lightweight aluminum construction.

Built-In Reliability

Tested to 10 million cycles without failure.

Typical Applications

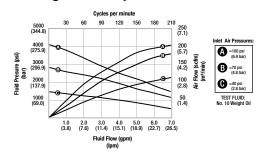
· Supplies hydraulic oil to accumulators in oil rig blowout prevention systems.

Typical Fluids Handled

· Hydraulic oil

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	

Accessories

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	

Grounding 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		Pump and air motor repair kit	













Used for Low-Volume Dispense of a Variety of Fluids

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

High-Quality Air Motor

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

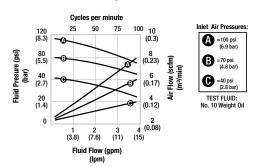
Typical Fluids Handled

- Water
- Antifreeze
- · Windshield wash fluid

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

Pump Performance

Fast-Flo 1:1 Pumps



208









hnical 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
Antifreeze, 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
	Universal	Carbon Steel	Buna-N	CE	226948
			Leather	CE, EX	237130
			PTFE	CE, EX	237131
			Leather	ETL, CE, EX	226943
			Polyethylene	ETL, CE, EX	226944
		Otaliala a Otali	Buna-N	CE	226952
		Stainless Steel	PTFE	CE, EX	237132

^{*}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	
	rait 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

200	Part Number	Description
	214583	Allows direct mounting of full-length Fast-Flo 1:1 pumps into standard 2 in NPT drum bung (included).
5	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

F	Part Number	Description	Includes		
		Description	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

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











Electric Convenience

There's an easier, more efficient way to pump fluid to your critical equipment. Graco's all-electric EGP pumps reduce operating costs without compromising the durability you expect from the industry leader in pumping solutions. Add convenience and peace of mind to your everyday operations.

EGP Transfer Pumps

Use the EGP Transfer Pump in locations where compressed air is unavailable or too cumbersome for short-distance fluid transfer.



Electrical Flexibility

Available in 12 VDC and 115 VAC power options.

Smooth Fluid Flow 8 gpm (30 lpm)

Output flow is continuous and non-pulsating up to 8 gpm (30 lpm).

Heavy-Duty Motor with Long Life

Industrial-grade electric motors with over-temperature protection on 115 VAC models.

Consistent Pressure

Built-in fluid bypass valve protects pump and downstream components.

Pump Protection

Includes inlet strainer to keep larger debris out of pump housing and extend pump life.

Plug and Play

Self-priming, precision-machined pump design.

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

EGP On-Demand Pumps

Install the EGP On-Demand Pump in a variety of applications including workshops, mobile trucks and industrial plants. Use it as an energy-efficient option to standard pneumatic pumps.



Electrical Flexibility

Available in 12 VDC and 115 VAC power options.

Smooth Fluid Flow 4 gpm (15 lpm)

Output flow is continuous and non-pulsating up to 4 gpm (15 lpm).

Heavy-Duty Motor with Long Life

Industrial-grade electric motor with over-temperature protection on 115 VAC model.

Fluid Flow When Needed

On-demand pressure sensing technology starts and stops the pump during the dispense.

Pump Reliability

Internal inlet and outlet checks keep pump section flooded to maintain prime for reliable performance.

Simultaneous Dispenses

Pump long distances and supply fluid to multiple dispense points.

Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Waste oil
- Antifreeze
- · Hydraulic fluids
- Cutting oils
- Non-flammable oil-based solvents
- Oil-based herbicide carriers



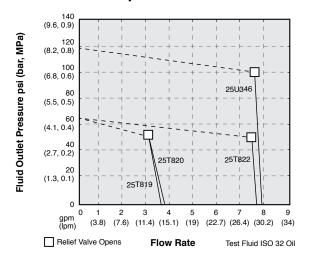




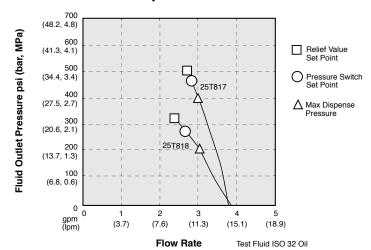




EGP Transfer Pumps Performance Chart



EGP On-Demand Pumps Performance Chart



Ordering Information

	EGP Transfer Pump Models				EGP On-Demand Pump Models		
Package Part Number	25T819	25T820	25T822	-	-	-	
Pump Part Number	-	-	-	25U346	25T817	25T818	
Voltage	12 VDC	115 VAC	115 VAC	115 VAC	115 VAC	12 VDC	
Hertz	-	60 Hz	60 Hz	60 Hz	60 Hz	_	
Motor Type	TENV	ODP	ODP	TENV – IP55	TENV – IP55	TENV	
Horsepower	1/2	1/2	3/4	1.0	1.5	3/4	
Maximum Current (Amps)	30	8.7	9.9	9.1	14.4	60	
Maximum Free Flow Rate gpm (Ipm)	3.8 (14.4)	3.9 (14.8)	7.7 (29.1)	8.0 (30.3)	3.7 (14.0)	3.8 (14.4)	
Maximum Pressure psi (bar)	65 (4.5)	65 (4.5)	65 (4.5)	120 (8.3)	500 (34.5)	325 (22.4)	
Automatic Relief Setting psi (bar)	65 (4.5)	65 (4.5)	65 (4.5)	120 (8.3)	500 (34.5)	325 (22.4)	
Inlet	1 in NPT	1 in NPT	1 in NPT	1 in NPT	3/4 in NPT	3/4 in NPT	
Outlet	3/4 in NPT	3/4 in NPT	3/4 in NPT	3/4 in NPT	1/2 in NPT	1/2 in NPT	
Bung Adapter	260061						
Dispense Kit	133376			_	_	_	
Suction Kit	133375 –						
Wetted Parts	Carbon steel with zinc plating, stainless steel, galvanized stee aluminum, nitrile, rubber, PVC, PVC cement			steel,	Carbon steel with zinc plating, stainless steel, galvanized steel, aluminum, nitrile, rubber		
Weight Ib (kg)	25 (11)	22 (10)	25 (11)	25 (11)	36 (16.3)	36 (16.3)	
Manual	3A8569	3A8568	3A8568	3A8568	3A8570	3A8571	

EGP[™] Transfer and EGP On-Demand









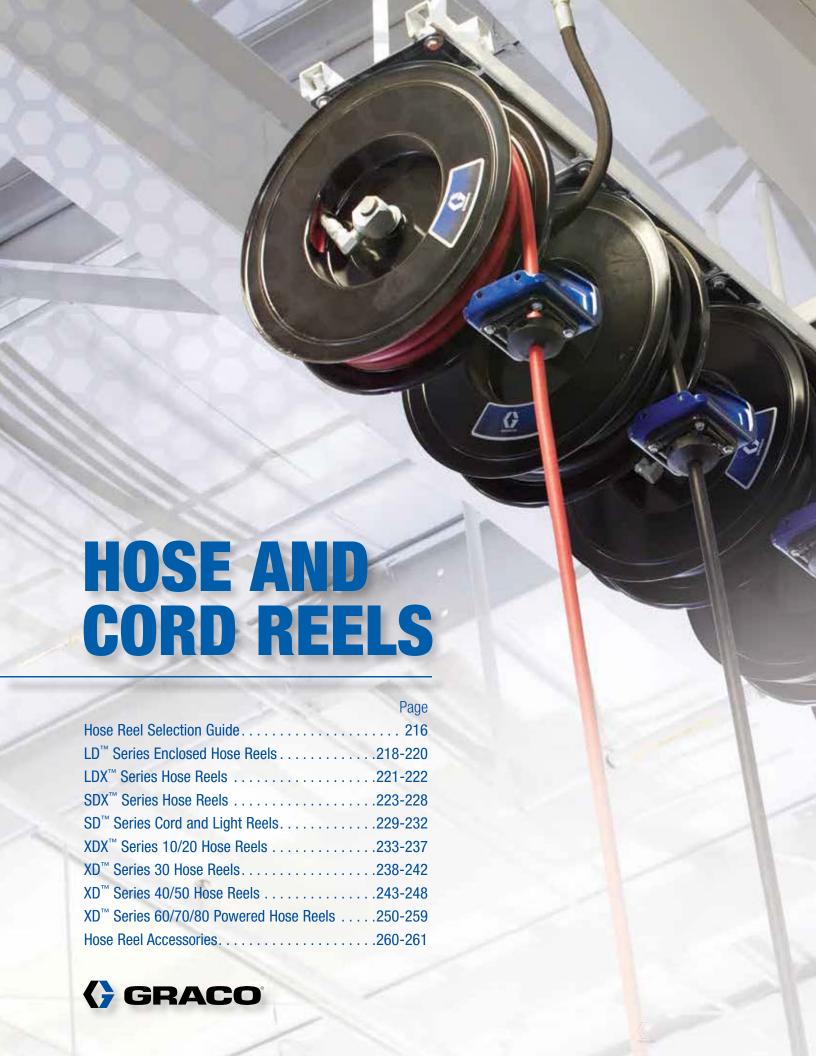




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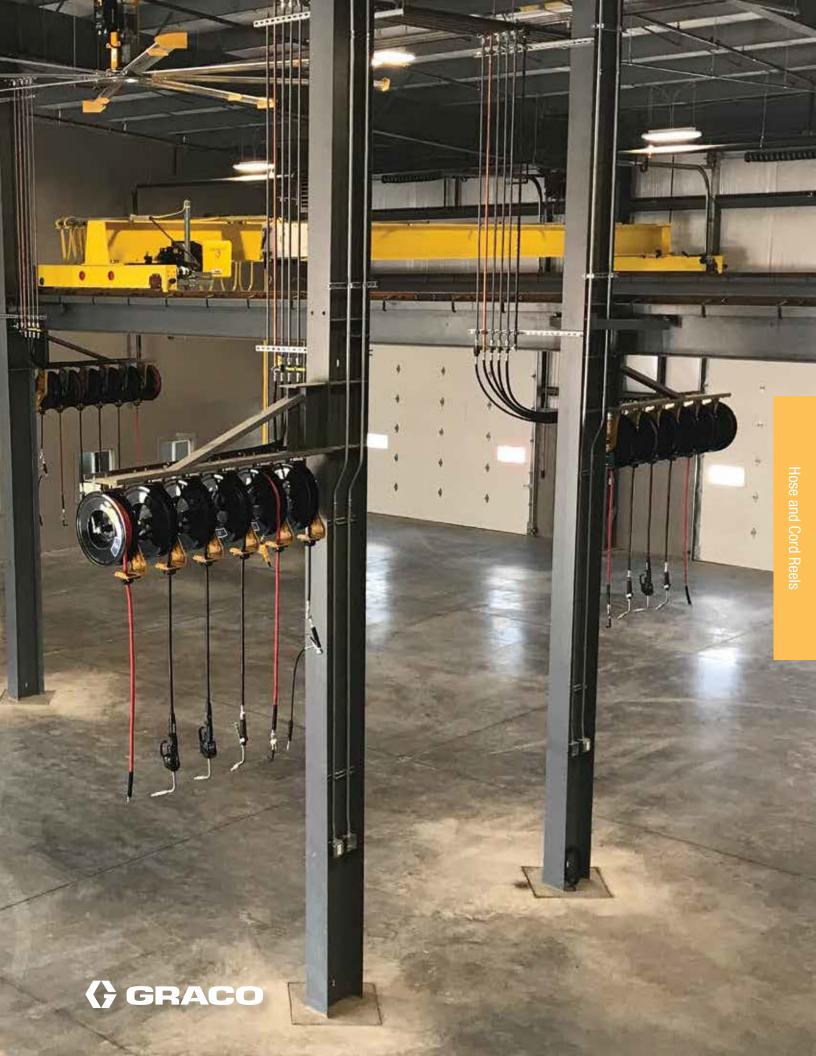
Accessories

Part Number	Description
133412	Wall mounting bracket, fits all transfer models
260238	"Y" strainer with 3/4 in NPT female in-line strainer for used oil transfer
133377	Suction filter
260124	55 in (1.3 m) PVC suction tube with inlet check valve
133376	Dispense valve kit
133375	Suction tube kit, 3/4 in PVC



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 Antifreeze Windshield washer fluid	• 35 ft (11 m) • 45 ft (14 m) • 50 ft (15 m)	Yes	218-220
LDX™ Series	Small maintenance shops Tire maintenance shops Small fast lubes Independent repair facilities Industrial manufacturing facilities	Petroleum- and synthetic-based oils Air Water Grease Antifreeze Windshield washer fluid Diesel exhaust fluid (DEF)	• 45 ft (14 m) – DEF only • 50 ft (15 m)	No	221-222
SDX™ 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 Antifreeze Windshield washer fluid	• 35 ft (11 m) • 50 ft (15 m) • 65 ft (20 m)	Optional	223-228
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	229-232
XDX™ 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 Antifreeze Windshield washer fluid	• 35 ft (11 m) • 50 ft (15 m) • 65 ft (20 m)	Optional	233-237
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 Antifreeze 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	238-242
XD™ 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 Antifreeze Waste oil evacuation	• 35 ft (11 m) • 50 ft (15 m) • 75 ft (23 m) • 100 ft (30 m)	No	243-248
XD [™] 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	250-259



LD Series Enclosed Hose Reels

















Typical Applications

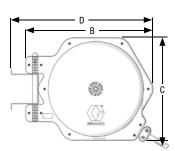
- Small maintenance shops
- Tire maintenance shops
- Small fast lubes
- · Independent repair facilities
- Industrial manufacturing facilities

Typical Fluids Handled

- · Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze
- · 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)				





chnical 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	Aluminum, Buna-N rubber, PVC						
Air/Water/Antifreeze/Windshield Washer Fluid Reels	Aluminum, 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						

















LD Series Reel Packages

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

Type of		Ho	se	Connec	tion Size	Maximum	Package	F	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
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F737	24H657		
	Air/Water/ Antifreeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F738	24H658		
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F739	24H659		24044
0 4	Washer Flata	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		24053
Overhead (Mell	UII	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F742	24H662		24053
Overhead/Wall Swivel Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F743	24H663		24053
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F755	24H657	24G865	24C444
	Air/Water/ Antifreeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F756	24H658		
V 19	Windshield Washer Fluid Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F757	24H659		
		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F758	24H660		
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F759	24H661		24053
Overde and AMAII		1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F760	24H662		24053
Overhead/Wall Stationary Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F761	24H663		24053
		3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24F773	24H657		
	Air/Water/ Antifreeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24F774	24H658		24044
	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24F775	24H659	240772	24C444
		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24F776	24H660		
C	Oil	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24F777	24H661		24053
	UII	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24F778	24H662		24053
Bench Swivel Mount	Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24F779	24H663		24053

LD Series Enclosed Hose Reels

















Ordering Information

LD Series Reel

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



Fluid	Hose		Connec	tion Size	Maximum Pressure	Part Number	Hose Inlet Kit	
Fluid	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	psi (bar)	Fait Number	(order separately)	
	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	250 (17.2)	24H657	24C444	
Air/Water/ Antifreeze/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	250 (17.2)	24H658	24C444	
Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	250 (17.2)	24H659	24C444	
Washer Flaid	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	250 (17.2)	24H660	24C444	
Oil	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	1,800 (124)	24H661	24C537	
OII	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	1,800 (124)	24H662	24C538	
Grease	1/4 (6)	35 (11)	3/8 (10)	1/4 (6)	5,000 (345)	24H663	24C539	

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	250 (17.2)	1/4 (6)	1/4 NPT(M)	1/4 NPT(M)	24C443	24H655 / 24H656
	Air/Water		3/8 (10)	1/2 NPT(M)	3/8 NPT(M)	24C444	24H657 / 24H658
			1/2 (13)	1/2 NPT(M)	1/2 NPT(M)	240444	24H659 / 24H660
6	Oil	1 000 (104)	3/8 (10)	1/2 NPT(M)	1/2 NPT(M)	24C537	24H661
		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)	24C539	24H663

















The Ultimate Industrial-Grade Hose Reel

Designed with an all-metal frame and specially crafted components; Graco LDX hose reels ensure smooth release and retraction to optimize confidence in cost-conscious smaller garages, independent repair facilities and industrial manufacturing environments.



Large Hose Capacity with Small Profile

Compact design accommodates up to a 50 foot (15 meter) hose to meet a wide variety of application requirements.

Adjustable Arm

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

Ball Bearing Swivel

Swivel designed with internal ball bearings reduces friction and ensures smooth operation.

External Swivel Housing

Quickly access swivel seal for faster repairs.

Dual Pedestal Frame

Ribbed metal for increased stability and robustness.

Typical Applications

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

Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze
- Windshield washer fluid
- Diesel exhaust fluid (DEF)

Technical Specifications

Оре	erating Temperature Range	
	Air/Water/Antifreeze/Windshield Washer Fluid	14.5°F to 149°F (-26°C to 65°C)
	DEF	-40°F to 158°F (-40°C to 70°C)
	Oil	-40°F to 212°F (-40°C to 100°C)
	Grease	-40°F to 212°F (-40°C to 100°C)
We	tted Parts	
	Air/Water/Antifreeze/Windshield Washer Fluid Reels	EPDM, stainless steel, fluorocarbon (FKM)
	DEF Reels	Hybrid polymer, brass, nitrile rubber
	Oil Reels	Zinc-plated steel, brass, polyurethane, nitrile rubber
	Grease Reels	Zinc-plated steel, brass, nitrile rubber
Sou	und Pressure Level	80 dB(A)
Sou	und Power Level	87 dB(A)
Inst	truction Manual	3A8216





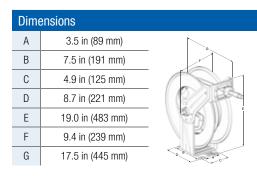




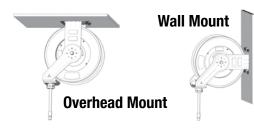








Typical Mounting Configurations



Bench Mount



>>> Ordering Information

LDX Reels

Part Number	Fluid	Но	ose	Connect	Maximum	
Fait Number	Fluid	ID (in)	Length (ft)	Inlet (in)	Outlet (in)	Pressure PSI
HEL010	Air/Water/Antifreeze/Windshield Washer Fluid	3/8	50	3/8 NPT	3/8 NPT	300
HEL012	Air/Water/Antifreeze/Windshield Washer Fluid	3/8	50	3/8 NPT	1/4 NPT	300
HEL015	DEF	1/2	45	1/2 BSPT	1/2 BSPT	150
HEM004	Oil	1/2	50	1/2 NPT	1/2 NPT	1,500
HEH006	Grease	3/8	50	3/8 NPT	3/8 NPT	4,060

Inlet Kits

Part Number	Fluid
25U369	Air/Water/Antifreeze/Windshield Washer Fluid
25U370	DEF
25U371	Oil
25U372	Grease

Accessories

Part Number	Description
18F444	1/2 in BSPT to 3/4 in hose barb adapter
18F445	1/2 in to 3/4 in adapter, BSPT

















High-Quality Performance and Versatility

Improve performance along with the look of any environment with Graco's flagship SDX hose reel. Built with specially crafted components, including a rigid metal frame and spool and effortless retraction swivels, it's available in five colors. An easy-to-service swivel cartridge design simplifies maintenance. Retraction and recoil are uniform and consistent every time.

Adjustable Arm

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

Durable Finish

Baked-on enamel finish (five colors 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 (NPT air/water) capacity for a wide variety of applications.

Heavy-Duty Spring

Powerful retraction performance ensures recoils are uniform and consistent every time.

Full-Flow Swivel

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



Reel arm shown in tank/bench mount position.

Low-Friction Cartridge Swivel

Provides smooth reel performance with an easy-to-replace swivel cartridge, simplifying repairs.

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
- Antifreeze/coolant
- Windshield washer fluid

Technical Specifications Operating Temperature Range Air/Water/Antifreeze/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 Zinc-plated steel, stainless steel, anodized Air/Water/Antifreeze/Windshield Washer Fluid Reels aluminum, nitrile rubber Zinc-plated steel, anodized aluminum, Oil Reels nitrile rubber Grease Reels Zinc-plated steel, nitrile rubber, steel Weight 52 lb (23.5 kg) Sound Pressure Level 80 dB(A) Sound Power Level 87 dB(A) Instruction Manual 3A8626

SDX Series Hose Reels







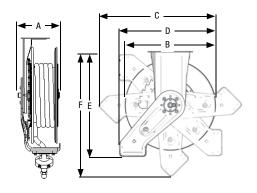




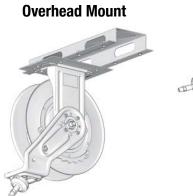


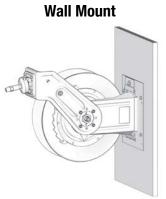


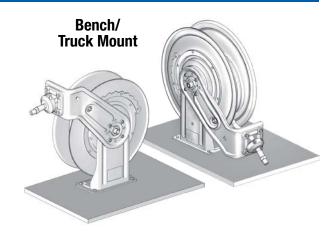
Dime	Dimensions									
	SDX 10	SDX 20								
Α	7.0 in (177 mm)	7.0 in (177 mm)								
В	16.2 in (412 mm)	18.1 in (460 mm)								
С	21.0 in (533 mm)	23.4 in (594 mm)								
D	17.1 in (435 mm)	19.2 in (488 mm)								
Е	19.5 in (495 mm)	21.8 in (554 mm)								
F	22.5 in (571 mm)	25.2 in (640 mm)								



Typical Mounting Configurations



































SDX 10/20 Reel Assembly Ordering Guide

SDX Series reels are available in five colors. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel color.

Reel Color	Identifier
White	А
Metallic Blue	В
Red	С
Black	D
Yellow	F

Order Example:

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



Select your reel position:

SDM65#



Select your reel color:

Metallic Blue = "B"

(from Reel Assembly Ordering Guide — opposite)

Order Part Number:

SDM65B



Arm in Overhead Mount Position

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

	Reel	Fluid	Ho	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
			3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	300 (20.7)	SDL23#	218549
	SDX 10	Air/Water/	3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	300 (20.7)	SDL25#	
		Antifreeze/ Windshield	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	300 (20.7)	SDL33#	
. 100	SDX 20	Washer Fluid	3/8 (10)	65 (20)	1/2 (13)	3/8 (10)	300 (20.7)	SDL56#	
			1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	300 (20.7)	SDL65#	
	SDX 10	Oil	1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	2,000 (138)	SDM33#	
	SDX 20) UII	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	2,000 (138)	SDM65#	
	CDV 10	Grease	1/4 (6)	50 (15)	3/8 (10)	1/4 (6)	5,000 (345)	SDH15#	
	SDX 10		3/8 (10)	35 (11)	3/8 (10)	1/4 (6)	4,800 (331)	SDH23#	218550
ı	SDX 20		3/8 (10)	50 (15)	3/8 (10)	1/4 (6)	4,800 (331)	SDH55#	

Arm in Tank/Bench Mount Position

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

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Reel	Eluid	Fluid		Connect	Connection Size		Assembly	Recommended
Size	Fluiu	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)	Pressure psi (bar)	Part Number	Hose Inlet Kit
	Air/Water/ Antifreeze/	3/8 (10)	65 (20)	1/2 (13)	3/8 (10)	300 (20.7)	SDL5J#	
Windshield SDX 20 Washer Fluid	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	300 (20.7)	SDL6H#	218549	
	Oil	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	2,000 (138)	SDM6H#	
	Grease	3/8 (10)	50 (15)	3/8 (10)	1/4 (6)	4,800 (331)	SDH5H#	218550

















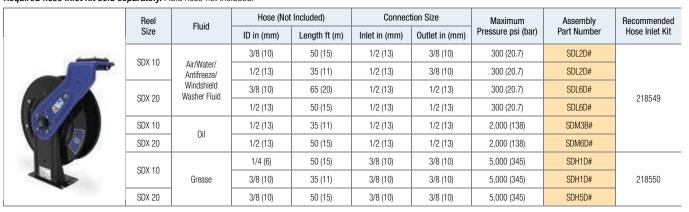


Ordering Information

Bare Reels

Arm in Overhead Mount Position

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



SDX 10 Oil Reel Packages

					Package		Package	Includes	
	Reel Size	Fluid	Valve Type	Enclosure	Number	Reel Assembly	Enclosure	Hose Inlet Kit	Meter
6 95			SDM8 Manual Meter	No	24E001	SDM33B	-	218549	25M404
			with Rigid Extension	Yes	24D996	SDM33B	24A217	218549	25M404
CA OF	SDX 10		SDM8 Manual Meter	No	24E002	SDM33B	-	218549	25M406
	30/10	Oil	with Flexible Extension	Yes	24D997	SDM33B	24A217	218549	25M406
			None	Yes	24D995	SDM33B	24A217	218549	-

















SDX 10 Air/Water Reel Packages

	Dool Cinc	Fluid	Value Tun-	- Francour-	Package		1	Package Includes	S	
	Reel Size	Fluid	Valve Type	Enclosure	Number	Reel Assembly	Enclosure	Hose Inlet Kit	Valve	Fitting
4				No	24D999	SDL23B	-	218549	180685	150287
		Water	Water Bib Dispense Valve	Yes	24D993	SDL23B	24A217	218549	180685	150287
				165	24D994	SDL33B	24A217	218549	180685	159842
5	SDX 10		r Tire Chuck Valve	No	24D998	SDL23B	-	218549	218545	-
	2DX 10	Air		Yes	24D992	SDL23B	24A217	218549	218545	-
		Air/Water N	None		24D989	SDL23B	24A217	218549	-	-
				Yes	24D990	SDL25B	24A217	218549	-	-
					24D991	SDL33B	24A217	218549	-	_

Accessories

Enclosure Kits for One Reel

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

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

Hose Inlet Kits

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

	Maximum Working Pressure psi (bar)	Size in (mm)	Length ft (m)	Part Number
113	2,000 (137)	1/2 (13)		218549
	4,000 (276)	3/8 (10)	2 (0.6)	218550
	5,000 (345)	1/4 (6)		224417

Ball Stop Kits

SDX 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						

SDX Series Hose Reel Accessories

















Ordering Information

Mounting Channels

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

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

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

Swivel Mounting Bracket

Allows reel to swivel 120° with two lockable positions.

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

Easy Slide-In Mount

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

Part Number	Description
24H193	Overhead or wall slide-in mount for SDX 10 or SDX 20 reels

Retrofit Adapter Kits

Part Number	Description
24C100	Includes all parts to mount an SDX 10 hose reel to an existing 250 series mounting pattern with enclosure

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

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

Quality Cord and Light Reels

Organize your work space for a safer, n productive work environment. Make Grasingle 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, overhead or bench mounts.

Heavy-Duty Pedestal

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

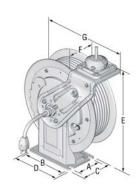
Multiple Configurations Available

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.

Typical Applications

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

Dim	Dimensions				
		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)		



Technical Specifications

Opei	Operating Temperature Range			
Cord Reels			-22°F to 122°F (-30°C to 50°C)	
Light Reels			-4°F to 104°F (-20°C to 40°C)	
Weight without Accessories				
	SD 5	16 AWG, Length 35 ft	25.4 lb	
		16 AWG, Length 50 ft	27.6 lb	
120V		12 AWG, Length 35 ft	28.2 lb	
12		12 AWG, Length 50 ft	32.0 lb	
	SD 10	16 AWG, Length 95 ft	46.3 lb	
		12 AWG, Length 95 ft	51.8 lb	
Instruction Manual 3A2592			3A2592	



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UL/CSA Approved

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 ETL approved to US and CSA standards.

	Accessory	Reel Size	AWG	Amp	Cord Length	Insulation	Part Number
		SD 5	12	20	50 ft (15 m)	SJOOW	24Y859
	No Accessory – Cord Only	SD 10	12	18	95 ft (29 m)	SJOOW	24Y880
		SD 5	16	13	50 ft (15 m)	SJTOW	24Y861
		SD 5	12	20	35 ft (11 m)	SJ00W	24Y862
	Single Industrial Receptacle	SD 5	12	20	50 ft (15 m)	SJ00W	24Y863
	·	SD 10	12	18	95 ft (29 m)	SJ00W	24Y882
4	Tri-Plug GFCl 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)	SJT0W	24Y865
C		SD 5	16	<1	50 ft (15 m)	SJT0W	24Y866
-		SD 10	16	<1	95 ft (29 m)	SJTOW	24Y884
(((((((((((((((((((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 time	LED Light	SD 5	16	<1	50 ft (15 m)	SJTOW	24Y870
2		SD 10	16	<1	95 ft (29 m)	SJTOW	24Y886
		SD 5	16	12	35 ft (11 m)	SJT0W	24Y871
Com	LED Light with In-line Tool Tap	SD 5	16	12	50 ft (15 m)	SJT0W	24Y872
		SD 10	16	10	95 ft (29 m)	SJT0W	24Y887



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 232.

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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 overhead.

_	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)	

^{*}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/Overhead Mounting Bracket

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



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

Adapter Kits



Part Nui	mber	Description
24P1	64	Spacer bracket for mounting a size 5 reel to an existing size 10 enclosure
24P8	80	Spacer bracket for mounting a size 5 reel to an existing size 20 enclosure
24P8	81	Spacer bracket for mounting a size 10 reel to an existing size 20 enclosure
16N8	83	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.

7

Part Number	Description
16P999	Magnetic clip for light tube

















10 / 20 / 20 XN



Performance in the Most Demanding Applications

The heavy-duty XDX hose reels are designed to handle fluid delivery tasks in the harshest, most challenging environments. Built with specially crafted components to extend performance for many years, the hose reel includes a robust heavy-gauge, dual-pedestal metal frame; steel spool; sealed components; and unique swivel design to transport fluids consistently and safely without fail.



Powerful retraction performance that allows you to easily increase or decrease spring tension while the 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.

Low-Friction Cartridge Swivel

Provides smooth reel performance with an easy-to-replace swivel cartridge, simplifying repairs.

Optional Adjustable Arm

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

Durable Finish

Baked-on enamel finish (four colors 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
- Antifreeze/coolant
- Windshield washer fluid

Technical Specifications Operating Temperature

Operating Temperature Range	
Air/Water/Antifreeze/ Windshield Washer Fluid	-20°F to 190°F (-28°C to 87°C)
Oil	-20°F to 190°F (-28°C to 87°C)
Grease	-40°F to 200°F (-40°C to 93°C)
Wetted Parts	
Air/Water/Antifreeze/ Windshield Washer Fluid	Zinc plated steel, stainless steel, anodized aluminum, nitrile rubber
Oil	Zinc plated steel, anodized aluminum, nitrile rubber
Grease	Zinc plated steel, polyurethane, steel
Weight (Without Hose)	
HS Models (With Adjustable Arm)	59 lb (26.5 kg)
HN Models (Without Arm)	52 lb (23.5 kg)
Sound Pressure Level	78 dB(A)
Sound Power Level	88 dB(A)
Instruction Manual	3A8626

XDX Series Hose Reels









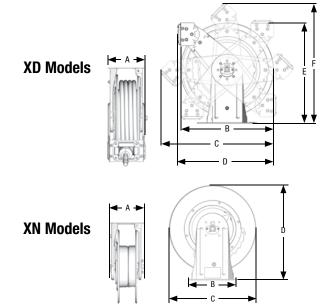






10 / 20 / 20 XN

Dime	Dimensions							
	XD M (With Adjus	XN Models (Without Arm)						
	XDX 10	XDX 20						
А	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)	_					
F	22.5 in (571 mm)	25.2 in (640 mm)	_					



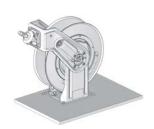
Typical Mounting Configurations



Wall Mount



Bench/ Truck Mount



Truck Mount with Remote Mounted Roller Guide



























10 / 20 / 20 XN



XDX 10/20 Reel Assembly Ordering Guide

XDX Series reels are available in three colors. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel color.

Reel Color	Identifier
White	А
Metallic Blue	В
Black	D
Yellow	F

Order Example: Arm in bench/truck mount position, XDX 20, oil, 1/2 in ID hose, 50 ft hose length



Select your reel position: __

XDM65#



Select your reel color: (from Reel Assembly Ordering

Black = "D"

Guide – opposite)

Order Part Number:





XD Models (with Adjustable Arm)

Reel Assemblies

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

	Reel		Hose (Included)		Connection Size		Maximum	Assembly	Recommended						
	Size	Fluid	ID in (mm)	Length ft (m)	Inlet	Outlet	Pressure psi (bar)	Part Number	Hose Inlet Kit						
		Air/Water/Antifreeze/	3/8 (10)	50 (15)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	XDL25#							
	VDV 10	Windshield Washer Fluid	1/2 (13)	35 (11)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	XDL33#	218549						
	XDX 10	Oil	1/2 (13)	35 (11)	1/2 NPSM(M)	1/2 NPT(M)	2,000 (138)	XDM33#							
10/1		Grease	1/4 (6)	50 (15)	3/8 NPSM(M)	1/4 NPT(M)	5,000 (552)	XDH15#	218550						
	XDX 20							Air/Water/Antifreeze/	3/8 (10)	65 (20)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	XDL56#	
		Windshield Washer Fluid	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	XDL65#	218549						
		Oil	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	2,000 (138)	XDM65#							
		Grease	3/8 (10)	50 (15)	3/8 NPSM(M)	1/4 NPT(M)	4,800 (331)	XDH55#	218550						

Bare Reels

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

	Reel		Hose (Not	Included)	Connec	tion Size	Maximum	Part	Recommended
	Size	Fluid	ID in (mm)	Length ft (m)	Inlet	Outlet	Pressure psi (bar)	Number	Hose Inlet Kit
		Air/Water/Antifreeze/ Windshield Washer Fluid	3/8 (10)	65 (20)	1/2 NPSM(M)	3/8 NPSM(F)	300 (20.7)	XDL2D#	218549
C. 1	XDX 10	Oil	1/2 (13)	35 (11)	1/2 NPSM(M)	1/2 NPSM(F)	2,000 (138)	XDM3B#	
		Grease	3/8 (10)	35 (11)	3/8 NPSM(M)	3/8 NPSM(F)	8,000 (552)	XDH1D#	218550
		Air/Water/Antifreeze/ Windshield Washer Fluid	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPSM(F)	300 (20.7)	XDL6D#	218549
	XDX 20	Oil	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPSM(F)	2,000 (138)	XDM6D#	
		Grease	3/8 (10)	50 (15)	3/8 NPSM(M)	3/8 NPSM(F)	8,000 (552)	XDH5D#	218550

XDX Series Hose Reels















10 / 20 / 20 XN



Ordering Information

XN Models (without Adjustable Arm)

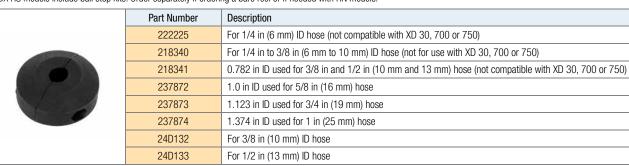
Includes hose guide kit. Required hose inlet kit sold separately.

			Hose (Ir	ncluded)	Connect	tion Size	Maximum	Part Number	Hose	Recommended
	Reel Size	Fluid	ID in (mm)	Length ft (m)	Inlet	Outlet	Pressure psi (bar)	Black	Guide Kit (Included)	Hose Inlet Kit
XDX 20	Air/Water/ Antifreeze/	3/8 (10)	65 (20)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	XNL56D			
	M	Windshield Washer Fluid	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	XNL65D	15Y478	218549
		Oil	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	2,000 (138)	XNM65D		
		Grease	3/8 (10)	50 (15)	3/8 NPSM(M)	1/4 NPT(M)	4,800 (331)	XNH55D		218550

Accessories

Ball Stop Kits

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



Hose Inlet Kits

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

	Maximum Working Pressure psi (bar)	Size in (mm)	Length ft (m)	Part Number
	2,000 (137)	1/2 (13)		218549
00	4,000 (276)	3/8 (10)	2 (0.6)	218550
	5,000 (345)	1/4 (6)		224417

Mounting Channels

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

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

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



















10 / 20 / 20 XN



Enclosure Kits for One Reel

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

	Reel Size	White	Metallic Blue	Red	Black	Dark Blue	Yellow	Required End-Caps (set of 2)
G	XDX 10	24N331	24N332	24N333	24N334	24N335	24N336	24A950
	XDX 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 without enclosure
-	24P914	Includes all parts to convert XDX 20 hose reels to fit existing 500 series enclosures

Valve Hanger Kit

	Part Number	Description
No.	224444	Mounts to side of reel to allow hanging of non-metered and high-flow dispensing valves

Self-Adhesive Identification Label Set

C served C ser	Part Number	Description
© not one C received © matter © matter © not one C matter © not one C matter © not one C data © too one C data	180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
OGRACO	17S659	Red
GGRACO	17S660	Blue
OGRACO	17S661	Green
OGRACO	17S662	Yellow
OGRACO	17S663	White

XD Series Hose Reels























30 / 30 HN



High Capacity Reel

er-range dispense and higher capacity s. Ideal for use on mobile service ıstrial plants.



Tec

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 colors 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
- Antifreeze
- Windshield washer fluid
- Pressure wash
- Waste oil evacuation
- · Diesel exhaust fluid (DEF)

nnical Specifications	
Operating Temperature Range	
Air/Water/Antifreeze/ 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/Antifreeze/ Windshield Washer Fluid Reels	Nickel plated carbon steel, aluminum, Buna-N rubber, UHMWPE
Oil	Nickel plated carbon steel, aluminum, 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, aluminum, 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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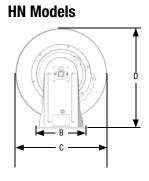


30 / 30 HN

Dime	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 A B C D

← A **→**



Typical Mounting Configurations



XD Series Hose Reels





















30 / 30 HN



XD 30 Reel Assembly Ordering Guide

XD Series reels are available in four colors. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel color.

Reel Color	Identifier
White	А
Metallic Blue	В
Yellow	F
Desert Sand*	G

*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

(II)

Select your reel position:

HSMD5#



Select your reel color:

Metallic Blue = "B"

(from Reel Assembly Ordering Guide — opposite)

Order Part Number:

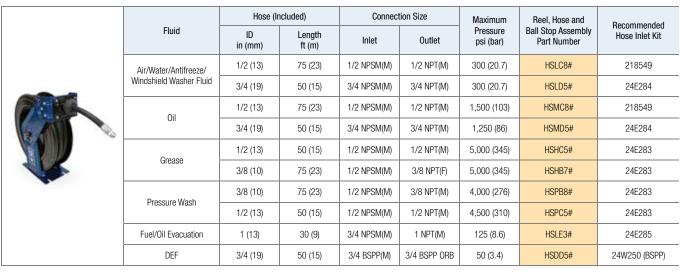
HSMD5B



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.



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



























HN Models (without Adjustable Arm)

Reels with Hose

Required hose inlet kit sold separately.



	Hose (Included)		Connection 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/Antifreeze/	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	HNLC8#	218549
Windshield Washer Fluid	3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	300 (20.7)	HNLD5#	24E284
0,11	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	1,500 (103)	HNMC8#	218549
Oil	3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	1,250 (86)	HNMD5#	24E284
0	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	5,000 (345)	HNHC5#	24E283
Grease	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(F)	5,000 (345)	HNHB7#	24E283
Dunnan Wank	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(M)	4,000 (276)	HNPB8#	24E283
Pressure Wash	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	4,500 (310)	HNPC5#	24E283
Fuel/Oil Evacuation	1 (13)	30 (9)	3/4 NPSM(M)	1 NPT(M)	125 (8.6)	HNLE3#	24E285

Bare Reels

Required hose inlet kit sold separately.



	Hose (Not Included)		Connection Size		Maximum		Recommended
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
Grease	1/2 (13)	50 (15)	1/2 (13) (m)	1/2 (13) (m)	5,000 (345)	HNHCD#	24E283
Pressure Wash	3/8 (10)	75 (23)	1/2 (13) (m)	3/8 (10) (m)	4,000 (276)	HNHFF#	24E283

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 XD 30, 700 or 750)					
218340	or 1/4-3/8 in (6-10 mm) ID hose (not for use with XD 30, 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 XD 30, 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	24D132 For 3/8 in (10 mm) ID hose					
24D133	For 1/2 in (13 mm) ID hose					

XD Series Hose Reel Accessories























30 / 30 HN



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 24E283	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
113		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
	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)

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 servence C represent	Part Number	Description
C and man C memors C and and C and and C and and C and C and and C and	180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid.

	Part Number	Description
OGRACO	17S659	Red
0 GRACO	17S660	Blue
O GRACO	17S661	Green
OGRACO	17\$662	Yellow
OGRACO	17S663	White





















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 colors, 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
- Antifreeze
- · Waste oil evacuation

Гес	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)

How to Select an XD 40/50 Hose Reel

2 Ways to Order!

Option 1 – Reel with Hose

(Pages 246-247)

All models include the hose, hose guide and ball stop kit.



Option 2 – Bare Reel

(Pages 246-247)

Bare reel models do not include hose and ball stop kit.



Choose Your Accessories (Pages 248)



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.



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.

40 / 50





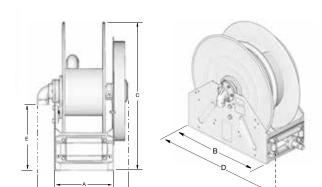












Dimensions										
Model	Inlet/Outlet Size	Dimensions in (mm)*								
Model	NPT(F)	Α	В	С	D	E	F			
XD 4010 – Model 1	1 in/1 in	11.83 (300)	24 (610)	26.13 (664)	26.4 (671)	10.91 (277)	16.54 (420)			
XD 4010 – Model 2	1 in/1 in	11.83 (300)	24 (610)	26.13 (664)	26.4 (671)	10.91 (277)	17.47 (444)			
XD 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)			

^{*}For complete list of dimensions, see Graco product manual 3A2990.

Typical Mounting Configurations



XD Series Hose Reels















40 / 50



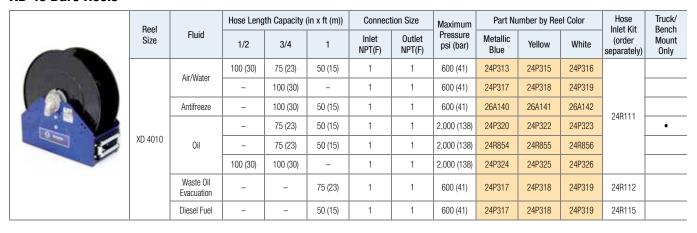
Ordering Information

XD 40 Reels with Hose

Includes hose, ball stop kit and hose guide. Required hose inlet kit sold separately.

	Reel		Ho	ose	Connect	tion Size	Maximum	Part N	umber by Ree	l Color	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		
		All/Water	3/4 (19)	100 (30)	1	3/4	300 (21)	24P333	24P334	24P335		
	XD 4010		1 (25)	50 (15)	1	1	300 (21)	24P336	24P337	24P338		
		Antifreeze	3/4 (19)	100 (30)	1	3/4	300 (21)	24P984	24P985	24P986		
Alth All Andrews		Oil	1/2 (13)	100 (30)	1	1/2	2,000 (138)	24P339	24P340	24P341	24R111	
			3/4 (19)	75 (23)	1	3/4	1,500 (103)	24P342	24P343	24P344		•
			3/4 (19)	75 (23)	1	3/4	1,500 (103)	24R857	24R859	24R860		
			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



Remember to Order!



















40 / 50

XD 50 Reels with Hose

Includes hose, ball stop kit and hose guide. Required hose inlet kit sold separately.

	Pool	Dool				Maximum	Part N	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/Watel	1 (25)	100 (30)	1	1	300 (21)	24P473	24P474	24P475	040111
	XD 5010	Antifreeze	1 (25)	100 (30)	1	1	300 (21)	24P987	24P988	24P989	- 24R111 -
	XD 3010	Oil	1 (25)	75 (23)	1	1	1,275 (88)	24P476	24P477	24P478	
		Diesel Fuel	1 (25)	75 (23)	1	1	250 (17)	24P485	24P486	24P487	- 24R115
			1 (25)	100 (30)	1	1	250 (17)	24P488	24P489	24P490	
		Waste Oil	1-1/4 (32)	35 (11)	1-1/2	1-1/4	200 (14)	24P479	24P480	24P481	_
	XD 5015**	Evacuation	1-1/4 (32)	50 (15)	1-1/2	1-1/4	200 (14)	24P482	24P483	24P484	
			1-1/4 (32)	35 (11)	1-1/2	1-1/4	250 (17)	24P491	24P492	24P493	24R117
		Diesel Fuel	1-1/4 (32)	50 (15)	1-1/2	1-1/4	250 (17)	24P494	24P495	24P496	
			1-1/2 (38)	50 (15)	1-1/2	1-1/2	150 (10)	24P497	24P498	24P499	

^{**}Standard 2 inch Vitaulic™-style groove on inlet.

XD 50 Bare Reels

	Reel	D. J		Hose Length Capacity (in x ft (m))			Connection Size		Part Number by Reel Color			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	
	XD 5010	Antifreeze	100 (30)	-	-	1	1	600 (41)	26A143	26A144	26A145	24R111
		Oil	75 (23)	-	-	1	1	2,000 (138)	24P458	24P459	24P460	
		Diesel Fuel	100 (30)	-	-	1	1	600 (41)	24P455	24P456	24P457	24R115
16.5			75 (23)	-	-	1	1	600 (41)	24P464	24P465	24P466	
		Waste Oil Evacuation	-	50 (15)		1-1/2	1-1/2	600 (41)	24P461	24P462	24P463	-
	XD 5015**	Discal 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/

^{**}Standard 2 inch Vitaulic™-style groove on inlet.

Remember to Order!



Victaulic is a trademark of Victaulic Company of America.



XD Series Hose Reel Accessories















40 / 50



>>> 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 or wall mounting kit for XD 40. Includes all parts needed for overhead mounting one reel.

Hose Inlet Kits

E.S.	

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

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6	to be	ē.	446

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

Hose Identification Wraps

Vinyl hose wrap for easy identification of meter fluid

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

XD Series Powered Bare Hose Reels















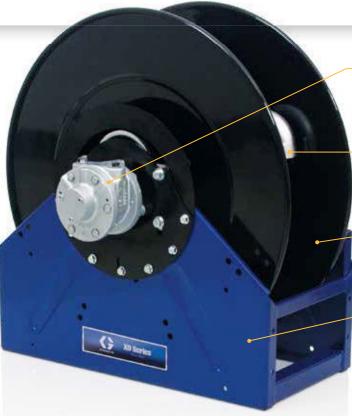


60 / 70 / 80



Safe, Versatile Powered Hose Reels

We like to think of the XD motor rewind reels as super-powered. The innovative ked with features to help you work safer, smarter and faster. We sive product testing, often exceeding industry standards to ensure est 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







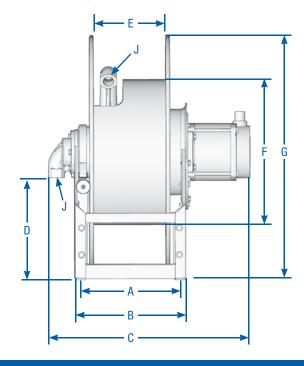








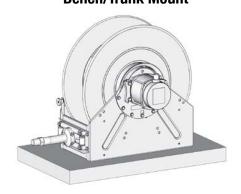
60 / 70 / 80



Dimensions Reference dimension "D" for specific motor type Dimensions in (mm) Inlet/Outlet Α С Model Size (J) (Mounting В D Ε F G NPT(F) Hydraulic Pneumatic Electric Holes) XD 6010 1 in/1 in 10.45 (256) 11.8 (300) 20.4 (519) 15.7 (400) 21.6 (547) 10.9 (277) 7.8 (198) 15.5 (394) 26.1 (663) XD 7010 1 in/1 in 12.95 (329) 22.9 (583) 18.2 (463) 10.9 (277) 10 (254) 14.3 (363) 24.1 (611) 10 (254) 26.1 (663) 1-1/2 in/ XD 7015 12.95 (329) 14.3 (363) 23.7 (603) 24.8 (631) 10.9 (277) 19 (483) 10 (254) 10 (254) 26.1 (663) 1-1/2 in XD 7020 2 in/2 in 25.2 (641) 10.2 (259) 12.95 (329) 14.3 (363) 24.1 (613) 19.4 (493) 10 (254) 10 (254) 26.1 (663) XD 8010 1 in/1 in 20.68 (525) 22.1 (561) 30.7 (779) 26 (659) 31.8 (807) 13.4 (340) 18 (457) 15.5 (394) 30.1 (765) 1-1/2 in/ XD 8015 32.5 (827) 20.68 (525) 22.1 (561) 31.4 (799) 26.7 (679) 13.4 (340) 18 (457) 15.5 (394) 30.1 (765) 1-1/2 in XD 8020 2 in/2 in 30.1 (765) 20.68 (525) 22.1 (561) 31.9 (809) 27.1 (689) 33 (837) 12.7 (323) 18 (457) 15.5 (394)

Typical Mounting Configurations

Bench/Trunk Mount



Truck Mount with Remote Mounted Roller Guide



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.

Fluid Type

☐ Air/Water □ Antifreeze

□ Petroleum- and Synthetic-Based Oils

□ Waste Oil □ Diesel Fuel Hose ID Hose Length in (mm) ft (m)

□ 1/2 (13) □ 50 (15) □ 1 (25) □ 75 (23)

□ 100 (30) □ 1-1/2 (38) 2 (51)

□ 150 (46)

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 254-256)
- ☐ Order Reel and Motor Separately (Page 257)
 - □ Pneumatic Motor
 - ☐ Hydraulic Motor
 - □ Electric Motor
- □ 12 VDC, 1/2 HP □ 12 VDC, 2/3 HP
- □ 24 VDC, 2/3 HP □ 115 VAC, 0.40 HP

□ 24 VDC, 1/2 HP

Choose Your Reel Size

□ XD 60 □ XD 70 □ XD 80

Choose Your Reel Color

Select from Blue, Yellow or White.

☐ Blue ☐ Yellow ■ White

Choose Your Controls (Pages 258)



☐ Pneumatic 2-position, 3-way valve

☐ Hydraulic Motor

- ☐ 12 VDC electric control of hydraulic motor, 3-position,
- □ 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)



A hose inlet is required for installation. They are appropriately sized for the hose reels based on type of fluid, hose size and pressure.

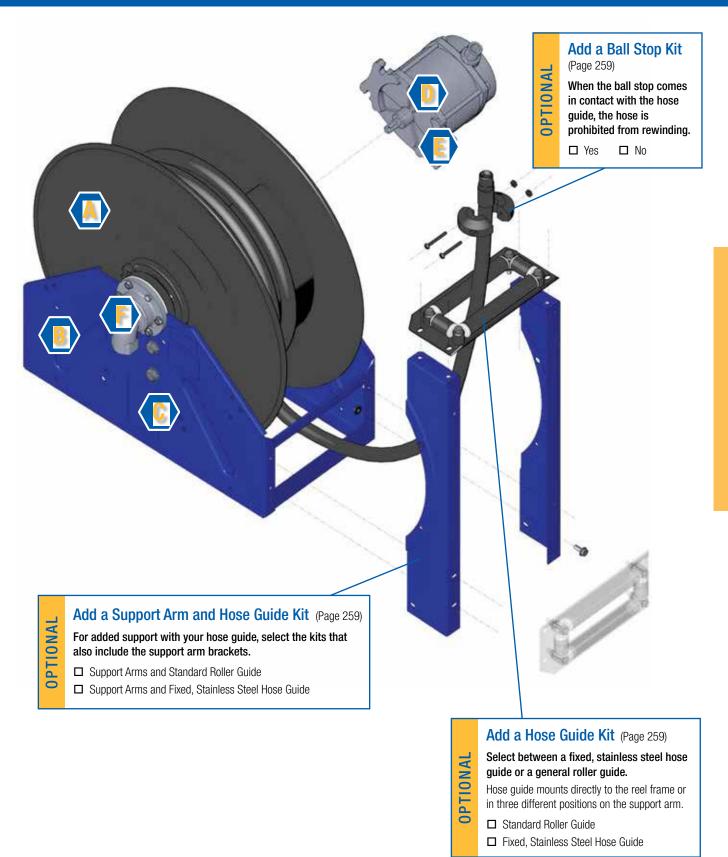
Note: All 1-1/2 in (38 mm) hose reels include a 2 in (51 mm) Victaulic-style groove on inlet. If you are using these reels, it is recommended to order an inlet kit from Graco.

- ☐ Yes (required for installation)
- ☐ No (will supply my own hose inlet kit)



REQUIRED





XD Series Bare Hose Reels















60 / 70 / 80



>>> Ordering Information

Reel with Motor - 1 in (25 mm) Inlet/Outlet **XD 60 Reels**

	Reel	FI. ::	Mel	Hose Ca	pacity of R	eel ft (m)	Maximum	Weight	Inlet/ Outlet	Reel Pa	ırt Number I	by Color		Hose Accessories be ordered separately)
	Size	Fluid	Motor		se ID in (m		Pressure psi (bar)	lb (kg)	Size NPT(F)	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/	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)
		Water	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	24R111	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	2411111	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/	24R422	24R423	24R424		126376 – 3/4 in x 75 ft (19 mm x 23 m)
			24 VDC Electric, 1/2 HP	100 (30)	100 (30)	50 (15)	3,000 (207)	134 (61)	25 mm)	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		
			Hydraulic	100 (30)	100 (30)	50 (15)	600 (41)	101 (45)		24R414	24R415	24R416		
	XD 6010	Diesel Fuel	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	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)	25 mm)	24R407	24R408	24R409		(20 11111 / 10 111)
			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)	25 mm) 24R407	24R408	24R409		(20 11111 % 10 111)
			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)]	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		































Reel with Motor - 1 in (25 mm) Inlet/Outlet XD 70 / XD 80 Reels

	Reel	Fl. 11	Mal	Hose Capacity of Reel ft (m)	Maximum	Weight	Inlet/ Outlet	Reel Pa	rt Number b	y Color		lose 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
		Air/ Water	12 VDC Electric, 1/2 HP	100 (30)	600 (41)	132 (60)	(25 mm/	24R437	24R438	24R439		(25 mm x 23 m) 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	24KIII	
			Hydraulic	100 (30)	3,000 (207)	102 (46)	1 in/1 in	24R461	24R462	24R463		126504 – 1 in x 75 ft
)	XD 7010	Oil	12 VDC Electric, 1/2 HP	100 (30)	3,000 (207)	133 (60)	(25 mm/	24R452	24R453	24R454		(25 mm x 23 m) 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)
A			Hydraulic	100 (30)	600 (41)	100 (45)	1 in/1 in	24R446	24R447	24R448		
A		Diesel Fuel	12 VDC Electric, 1/2 HP 100 (30) 600 (41) 132 (60) (25 mm) 24R437 2	24R438	24R439	24R115	24R106 – 1 in x 100 ft					
		1 001	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		
			Pneumatic 150 (46) 600 (41) 164 (74)			24R531	24R532	24R533				
			Hydraulic	150 (46)	600 (41)	142 (64)	- - 1 in/1 in	24R528	24R529	24R530	Ī	-
		Air/ Water	12 VDC Electric, 1/2 HP	150 (46)	600 (41)	173 (78)	(25 mm/	24R519	24R520	24R521		
		wator	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	
	ĺ		Pneumatic	150 (46)	3,000 (207)	165 (75)		24R546	24R547	24R548	24R111	
	XD 8010		Hydraulic	150 (46)	3,000 (207)	143 (65)	1 in/1 in	24R543	24R544	24R545		
)		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)
		i uoi	24 VAC Electric, 1/2 HP	150 (46)	600 (41)	173 (78)	25 mm)	24R522	24R523	24R524		(25 mm x 46 m)
			115 VAC Electric	150 (46)	600 (41)	173 (78)		24R525	24R526	24R527		



XD Series Bare Hose Reels















60 / 70 / 80



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 Pa	rt Number b	y Color		Hose Accessories be ordered separately)	
	Size	Tiulu	IVIOTOI	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		040440 4 444 50 %	
			Hydraulic 65 (20)	65 (20)	600 (41)	102 (46)		24R512	24R513	24R515		24R110 – 1-1/4 in x 50 ft	
		Diesel Fuel	12 VDC Electric, 1/2 HP	65 (20)	600 (41)	133 (60)		24R503	24R504	24R505	24R117	,	
			24 VDC Electric, 1/2 HP	65 (20)	600 (41)	133 (60)		24R506	24R507	24R508		(38 mm x 15 m)	
	XD 7015		115 VAC Electric	65 (20)	600 (41)	133 (60)		24R509	24R510	24R511			
	XD 7015		Pneumatic	50 (15)	600 (41)	100 (56)		24R516	24R517	24R518		126380 – 1-1/4 in x 35 ft	
		Waste	Hydraulic	50 (15)	600 (41)	102 (46)	1-1/2 in/	24R512 24R513	24R513	24R515		,	
		Oil	12 VDC Electric, 1/2 HP	50 (15)	600 (41)	133 (60)	1-1/2 in (38 mm/	24R503	24R504	24R505	-		
The same of the sa		Evac.	24 VDC Electric, 1/2 HP	50 (15)	600 (41)	133 (60)	38 mm)	24R506	24R506 24R507	24R508		,	
			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	(32 mm x 15 m) 24R114 - 1-1/2 in x 50 ft (38 mm x 15 m) 126380 - 1-1/4 in x 35 ft (32 mm x 11 m) 126688 - 1-1/4 in x 50 ft (32 mm x 15 m) 127173 - 1-1/2 in x 50 ft	
	'	1 401	24 VDC Electric, 1/2 HP	100 (50)	600 (41)	175 (79)		24R552	24R553	24R554		(00 11111 x 00 111)	
			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 Pressure	Weight	Inlet/ Outlet	Reel Pa	rt Number l	y Color	Hose Accessories (Must be ordered separately)		
	Size	riulu	IVIOLOI	Hose ID 2 in (51 mm)	psi (bar)	lb (kg)	Size NPT(F)	Metallic Blue	Yellow	White	Hose Inlet Kit	Hose	
			Pneumatic	33 (10)	600 (41)	128 (58)		24T023	24T024	24T025		127167 – 2 in x 33 ft (51 mm x 10 m)	
			Hydraulic	33 (10)	600 (41)	106 (48)		24T020	24T021	24T022	_ ,		
	XD 7020		12 VDC Electric, 1/2 HP	33 (10)	600 (41)	137 (62)		24T011	24T012	24T013			
			24 VDC Electric, 1/2 HP	33 (10)	600 (41)	137 (62)	2 in/2 in 2	24T014	24T015	24T016	- 24R118 -		
		Diesel	115 VAC Electric	33 (10)	600 (41)	137 (62)		24T017	24T018	24T019			
195		Fuel	Pneumatic	50 (15)	600 (41)	169 (76)	(51 mm/ 51 mm)	24R576	24R577	24R578			
	XD 8020		Hydraulic	50 (15)	600 (41)	147 (67)		24R573	24R574	24R575			
			12 VDC Electric, 1/2 HP	50 (15)	600 (41)	179 (81)		24R564	24R565	24R566		24T254 – 2 in x 50 ft (51 mm x 15 m)	
			24 VDC Electric, 1/2 HP	50 (15)	600 (41)	179 (81)		24R567	24R567 24R568 24R569	(01 11111 X 10 111)			
			115 VAC Electric	50 (15)	600 (41)	179 (81)		24R570	24R571	24R572			





























60 / 70 / 80



Reel Frames Only

XD 60 / XD 70 / XD 80 Reels

Motor is not included and must be purchased separately.

	Reel	5		Hose Ca	pacity of Re	eel ft (m)		Maximum	Weight	Inlet/ Outlet	Reel Part Number by Color		
	Size	Fluid		Но	ose ID in (m	m)		Pressure psi (bar)	lb (kg)	Size	Metallic	Yellow	White
			1/2 (13)	3/4 (19)	1 (25)	1-1/2 (38)	2 (51)	po. (0.1.)		NPT(F)	Blue	IGHOW	WILLIE
		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)	-	-	3,000 (207)	88 (40)	1 in/1 in	24T107	24T108	24T109
22	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
	XD 7015		_	_	_	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	Diesel Fuel	_	-	_	-	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.
100	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.
	24T889	115 VAC, 0.40 HP motor assembly, reversible type. For installing motor to bare XD frame.



XD Series Bare Hose Reel Accessories

















>>> Ordering Information

Motor Controls (Required)

	Part Number	Description
	127271	Pneumatic valve to control XD 60/70/80 pneumatic powered hose reels. 2-position, 3-way valve.
	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.
W. Colonial	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.
81	127223	Hazardous-location push-button on/off switch. Use for 115 and 220 VAC.
	127218	Hazardous-location junction box
The last	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
•	127222	Manual-reset push-button circuit breaker, 25 amp rating



















>>> Ordering Information

Ball Stop Kits

V - 40 - 20 - 10 - 10 - 10 - 10 - 10 - 10 - 1	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
ET	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)
11	24T333	Arm kit with stainless steel hose guide for XD 70 (24T328)
	24T334	Arm kit with stainless steel hose guide for XD 80 (24T329)
F	24T335	Arm kit with roller guide for XD 60 (24R072)
11	24T336	Arm kit with roller guide for XD 70 (24T330)
11	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 server C represe	Part Number	Description
E marine E marine E marine E marine	180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF





















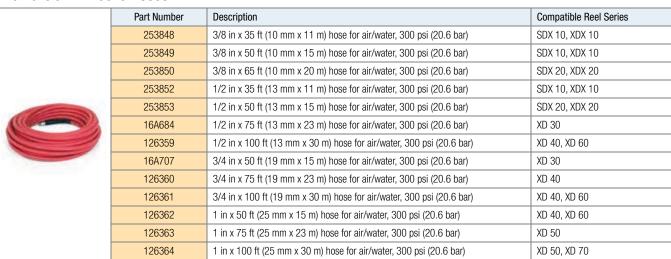
Ordering Information

Hose Identification Wraps

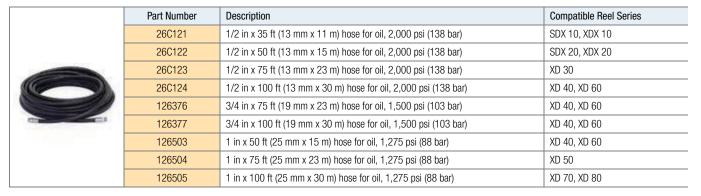
Vinyl hose wrap for easy identification of meter fluid

	Part Number	Description
OGRACO	17S659	Red
OGRACO	17S660	Blue
O GRACO	17S661	Green
O ORACO	17S662	Yellow
O onaco	17S663	White

Air/Water/Antifreeze Hoses



Oil Hoses

























Grease Hoses

200	

Part Number	Description	Compatible Reel Series
109158	1/4 in x 50 ft (6 mm x 15m) hose for grease, 5,000 psi (345 bar)	SDX 10, XDX 10
124470	3/8 in x 35 ft (10 mm x 11 m) hose for grease, 4,800 psi (331 bar)	SDX 10, XDX 10
124461	3/8 in x 50 ft (10 mm x 15 m) hose for grease, 4,800 psi (331 bar)	SDX 20, XDX 20
126076	3/8 in x 75 ft (10 mm x 23m) hose for grease, 5,000 psi (345 bar)	XD 30
16A674	1/2 in x 50 ft (13 mm x 15 m) hose for grease, 5,000 psi (345 bar)	XD 30

Waste Oil Evacuation Hoses



	Part Number	Description	Compatible Reel Series
	16A686 1 in x 30 ft (25 mm x 9 m) hose for waste oil or fuel, 125 psi (9 bar)		XD 30
V	126379	1 in x 50 ft (25 mm x 15 m) hose for waste oil, 250 psi (17 bar) XD 40, XD 60	
	126380	1 1/4 in x 35 ft (32 mm x 10.5 m) hose for waste oil, 200 psi (13.8 bar) XD 50	
	126688	1 1/4 in x 50 ft (32 mm x 15 m) hose for waste oil, 200 psi (13.8 bar)	XD 50
	127173	1 1/2 in x 50 ft (38 mm x 15 m) hose for waste oil, 200 psi (13.8 bar)	XD 50

Diesel Fuel Hoses



	Part Number	Description	Compatible Reel Series
	16A686	1 in x 30 ft (25 mm x 9 m) hose for waste oil or fuel, 125 psi (9 bar)	XD 30
	24R102	1 in x 50 ft (25 mm x 15 m) hose for diesel fuel, 250 psi (17 bar)	XD 40, XD 60
	24R103	1 in x 75 ft (25 mm x 23 m) hose for diesel fuel, 250 psi (17 bar)	XD 50
	24R106	1 in x 100 ft (25 mm x 30 m) hose for diesel fuel, 250 psi (17 bar)	XD 50, XD 70
١	24T252	1 in x 150 ft (25 mm x 46 m) hose for diesel fuel, 250 psi (17 bar)	XD 80
4	24R108	1 1/4 in x 35 ft (32 mm x 10.5 m) hose for diesel fuel, 250 psi (17 bar)	XD 50
	24R110	1 1/4 in x 50 ft (32 mm x 15 m) hose for diesel fuel, 250 psi (17 bar)	XD 50
	24R114	1 1/2 in x 50 ft (38 mm x 15 m) hose for diesel fuel, 150 psi (11 bar)	XD 50
	24T253	1 1/2 in x 100 ft (38 mm x 30 m) hose for diesel fuel, 150 psi (11 bar)	XD 80
	127167	2 in x 33 ft (51 mm x 10 m) hose for diesel fuel, 150 psi (11 bar)	XD 80
	24T254	2 in x 50 ft (51 mm x 15 m) hose for diesel fuel, 150 psi (11 bar)	XD 80

Diesel Exhaust Fluid (DEF) Hoses



Part Number	Description	Compatible Reel Series
125242	3/4 in x 50 ft (19 mm x 15 m) hose for DEF fluid, 50 psi (3 bar)	XD 30

Pressure Wash Hoses



Part Number	Description	Compatible Reel Series
16A688	3/8 in x 75 ft (10 mm x 23m) hose for pressure wash, 4,000 psi (276 bar)	XD 30
126075	1/2 in x 50 ft (13 mm x 15 m) hose for pressure wash, 4,500 psi (310 bar)	XD 30

Notes	
	
	



() 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

echnical Specifications		
Flu	id	Used Oil
Flu	id Capacity	25 gal (95 l)
Eva	acuation	Bottom – Gravity / Top – Suction
Red	ceiver Material	Polyethylene
Ler	ngth	24 in (60 cm)
Wic	dth	24 in (60 cm)
Hei	ight	45 to 72 in (1.1 to 1.8 m)
Fur	nnel Size	22 x 24 in (50 x 56 cm)
Dry	/ Weight	54 lb
Ins	truction 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. Color 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 antifreeze

ec	echnical Specifications		
	Fluid	Antifreeze	
	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
248632	25 gal (95 l) used-antifreeze receiver with used-filter tray, tool holders and sight gauge. Must use wall mount package (224873) for topside evacuation.

Must ship via truck.



G OILA

Pressurized Oil Drain

Drain, evacuate and transfer used oil reliably, quickly and in the most cost-effective manner.



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.

Typical Applications

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

Typical Fluids Handled

Used oil

Technical Specifications

Warranty!

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
Instruction Manual	310864

Ordering Information

Part Number	Description
119577	24 gal (90 l) steel-tank pressurized oil drain





Vacuum-Assisted Oil Collection System

Large-capacity collection systems make removing drain plugs a thing of the past. Oil Ace models with optional sight chamber offer the technician a visual indication of the waste fluid quantity. This technology will be a few discontinuous discontinuous designations of the past. Oil Ace models with optional sight chamber offer the technician a visual indication of the waste fluid quantity. This technology will be a few discontinuous d

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

chnical Specifications			
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		



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





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

 $^{^*}$ 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.







Typical Applications

- Truck maintenance facility
- · Heavy-duty dealerships
- · Fleet services facilities

Typical Fluids Handled

- Antifreeze
- Used oil

Technical Specifications		
Fluid	Antifreeze / 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

Track Receivers





Typical Applications

- · Fast lube centers
- Fleet services facilities

Typical Fluids Handled

Used oil

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	
Specially designed for car and truck fast lube facilities where speed 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.	



Typical Applications

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

Typical Fluids Handled

• Used oil





echnical 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, aluminum, stainless steel, PTFE, zinc-plated steel	Aluminum, 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





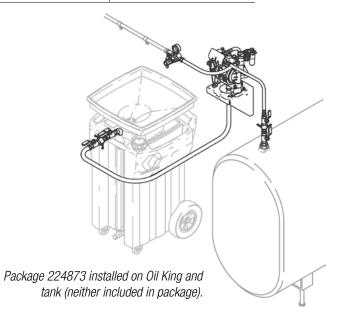


Ordering Information

Wall Mount Packages



Package Number	24E166	25T815	224873
Diaphragm Pump	1050A (1 in) UL-listed	1050A (1 in) UL-listed	716 (3/4 in)
Pump Part Number	647731	647016	241906
Mounting Type	Wall Bracket	Wall Bracket	Wall Bracket
Mounting Part Number	24C637	24C637	224835
Fluid	Oil	Antifreeze	Antifreeze / Oil
Evacuation	Drum Adapter	Drum Adapter	Drum Adapter
Evacuation Part Number	240832	240832	240832
Air Installation Kit	240684	240684	240684
Fluid Installation Kit	240685	240685	240685
Instruction Manual	313597	313597	308719
Listings	Listings UL, CE		-





>>> 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.



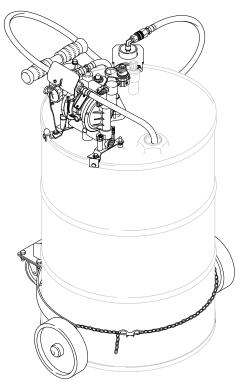


Ordering Information

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
Evacuation Kit	224669 / 224666	224702 / 224666
4-Way Valve	187359	187359
Port Size	1/2 NPT(F)	1/2 NPT(F)
Instruction Manual	308154	308154
Must be ordered separately (Not		Included)
Filter Regulator Lubricator (FRL)	110149	110149
FRL Mounting Kit	224759	224759



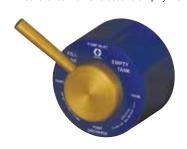
Package 224701 installed on oil drum (Drum and filter regulator not included in package)

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4-Way Evacuation Valve

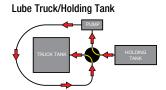
Directional control valve used to simplify the filling and emptying of tanks



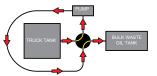
Features and Benefits

- 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).

	air regulators with installa	
	Part Number	Description
	110318	1/4 NPT(FBE)
	110147	1/4 NPT(FBE) with gauge
/d	110234	3/8 NPT(FBE)
	109075	3/8 NPT(FBE) with gauge
See,	202858	3/8 NPT(M) x 1/2 NPSM(F) with gauge
Carl	104266	1/2 NPT(FBE)
1	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.
T	106148	3/8 NPT(FBE) Air Filter. Auto-drain.
T	106149	1/2 NPT(FBE) Air Filter. Manual drain.
Ŧ	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



Accessories Ordering Information

Additional Accessories

Auditional Accessori		Description	
	Part Number	Description	
1000	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	
III (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.	
200	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 antifreeze. 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	

Notes	



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SORIES

AIR ACCESS

184 66 300 PSI 21 MAX WPF





Ordering Information

Air Filter-Regulator

	Part Number	Inlet	Flow Range	Drain Type	Maximum Working Pressure
	133215	1/4 in NPT(MBE)	20 cfm (550 lpm)	Semi-automatic	
Q.d	133216	1/4 in NPT(MBE)	63 cfm (1,800 lpm)	Automatic	140 psi (9.65 bar)
2	133217	3/8 in NPT(MBE)	77 cfm (2,200 lpm)	Automatic	

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).

0 0 0	Thread	1/4 in	3/8 in	1/2 in	3/4 in
	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
	208393	3/8 in NPT(MBE)	500 psi
	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(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
1	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.

de	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)

	Part Number	Inlet	Color
	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.

*	Part Number	Inlet
po gr	224040	3/4 in NPT(FBE)





>>> 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

	Dort Number	Part Number	Post Number Description		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		
	236206	Passenger Car Tire Inflator	Yes	-	Yes	Yes		
900 J	218545	Tire Chuck with 1/4 in NPT(F) inlet	-	-	-	-		

Water Valve

Water/Antifreeze Bib is a durable, full-volume dispense nozzle for water, antifreeze and windshield washer fluid. Nitrile rubber seals.

	Part Number	Inlet	Pressure Rating
g	180685	1/4 in NPT(F)	100 psi (7 bar)











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		Fitt	ting	5
	(mm)	(bar)	Hose Length	End 1 Thread NPT(M)	End 2 Thread NPT(M)	Part Number
			12 in (0.3 m)	1/0	1.10	109145
			30 in (0.8 m)	1/8	1/8	109148
			24 in (0.8 m)	3/8	3/8	109147
			48 in (1.2 m)			109149
			72 in (1.8 m)		4/4	109150
	1/4	5,000	12 ft (3.6 m)		1/4	109151
	(6.44)	(345)	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
			24 in (0.62 m)			109161
			48 in (1.2 m)	3/8	3/8	109162
	3/8 (9.5)	4,000 (276)	72 in (1.8 m)	-		109163
		(270)	15 ft (4.6 m)		1/4	109165
			40 ft (12.2 m)	1/4	3/8	109169
			50 ft (15.3 m)			109170
			15 in (0.4 m)		1/2	110069
			18 in (0.5 m)	1/2		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)		1/2	220592
			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
	0.11	0.050	72 in (1.8 m)	3/4	3/4	109105
	3/4 (19.1)	2,250 (155)	10 ft (3.0 m)			111010
			75 ft (22.9 m)	1/2	1 -	237865
			50 ft (15.2 m)	1/2	'	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

For use with low pressure air and water. Hoses are male NPT at both ends.

	ID Inch	Max PSI	Hose Length	Fitt	ting	Part Number
	(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)		1/4	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)		1/0	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
		180 (12.4)	4 ft (1.2 m)	3/8	3/8	109130
			6 ft (1.8 m)	3/0	3/8	203320
	3/8		10 ft (3.1 m)			109131
	(9.5)		16 ft (4.9 m)	1/4	3/8	110326
			25 ft (7.6 m)		1/2	109132
521			40 ft (12.2 m)	3/8		109134
			60 ft (18.3 m)			109135
		180 (12.4)	22 in (0.56 m)	1/2		218093
	1/2		4 ft (1.2 m)		1/2	110046
	(12.7)		6 ft (1.8 m)			205418
			10 ft (3.1 m)			214656
	1/2	300	25 ft (7.6 m)	1/2	1/0	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
	(.3.1)	(1)	10 ft (3.1 m)			214955
			25 ft (7.6 m)			208611

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>>> 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













Ordering Information

Bushings and Pipe Adapters – Reducing, Standard and Expanding



Outlet			In	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



Part Number	Inlet	
100451	1/8 in NPT	
113093	1/4 in NPT	
162024	3/8 in NPT	
158581	1/2 in NPT	
100385	3/4 in NPT	
100474	1 in NPT	

Hex Nipples - Standard and Reducing



Male End 2	Male End 1							
IVIAIE EIIU Z	1/4 in NPT	3/8 in NPT	1/2 in NPT	3/4 in NPT	1 in NPT			
1/8 in NPT	151519	156296	159239	-	-			
1/4 in NPT	156971	165198	162449	-	-			
3/8 in NPT	-	156849	-	194048	-			
1/2 in NPT	-	-	158491	157191	-			
3/4 in NPT	-	-	-	175013	158555			











>>> Ordering Information

Square Head Plug

	Part Number	Inlet
1	111697	1/4 in NPT
	100040	3/8 in NPT
E	100737	1/2 in NPT
	104663	3/4 in NPT

	Swivel	Ada	pters*
--	---------------	-----	--------











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 1	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	158256-257	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	-	-	-

^{*}Not a "live" swivel, position is stationary after tightened.

Tuhe Fittings

Maximum pressure rating of 3,000 psi (207 bar) with appropriate tubing wall thickness.

	Description	Inlet	Tube OD	
			5/8 in	7/8 in
	Tube Union Flow 90° Elbow	=	101012	101376
1 13	Straight Tube Union		101009	101340
	Male Connector	3/4 in NPT	-	101339
1	Straight Female Connector	1/2 in NPT	101008	-
	Tube Tee with Female Branch	5/8 in NPT	101013	-

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 Vehicle Service Equipment Group 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 Vehicle Service Equipment Group 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	SDX Series Hose Reels	7 Years
REI	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
WETERS	SD Meters and Valves	5 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
P	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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