GRACO

VEHICLE SERVICE EQUIPMENT

Buyer's Guide

MOVING MATERIALS THAT MATTER™

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ABOUT GRACO

100 YEARS OF MOVING MATERIALS THAT MATTER – TOGETHER

For a century, Graco has partnered with customers to solve complex challenges and deliver trusted solutions. From the first air-powered grease gun to today's smart, sustainable systems, our commitment to innovation and quality has never wavered. This centennial marks a legacy of collaboration, reliability, and progress. As your needs evolve, so do we – investing in technology, expanding our capabilities and staying focused on what matters most: helping you succeed. Thank you for being part of our journey. The next 100 years start now – and we're honored to move forward with you.

A History of Innovative Lubrication Solutions

The Gray brothers launched Graco to manufacture and market an air-powered, portable lubricator invented by Russell Gray while he was working as a parking lot attendant. The idea emerged as he struggled with a manual grease gun in freezing Minneapolis temperatures that turned grease into thick sludge. Over time, growing demand for lubrication equipment pushed the brothers to develop larger, specialized lubricators. Graco soon became a leader in the lubrication equipment industry.

Today, Graco manufactures equipment to monitor, control, manage and dispense fluids, providing innovative solutions for vehicle service, industrial and automatic lubrication needs. Our commitment is to keep your equipment running at peak performance.

Graco automatic lubrication solutions deliver optimal machine performance by lubricating key wear points with the right amount of lubricant, at the right time and in the right location. Graco offers automatic lubrication solutions for industrial, on-road mobile, off-road mobile and energy applications, among others. From light-duty uses to high-performance systems designed for heavy-duty jobs, Graco equipment is known for rugged, durable, long-life design.

Whether servicing vehicles, operating heavy equipment, performing maintenance repairs, working on an oil rig or running manufacturing lines, customers rely on Graco as a trusted source to help maximize profitability every time.

DID YOU KNOW?

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

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

Visit graco.com/autolube

Graco Resources

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

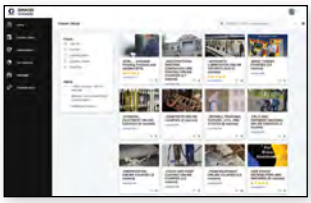
Graco Sales Book

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

Graco Sales Book is an innovative mobile application, designed to give Distributors access to Graco product information, including brochures, instruction 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

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FLUID MANAGEMENT SYSTEMS

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GRACO®

GRACO

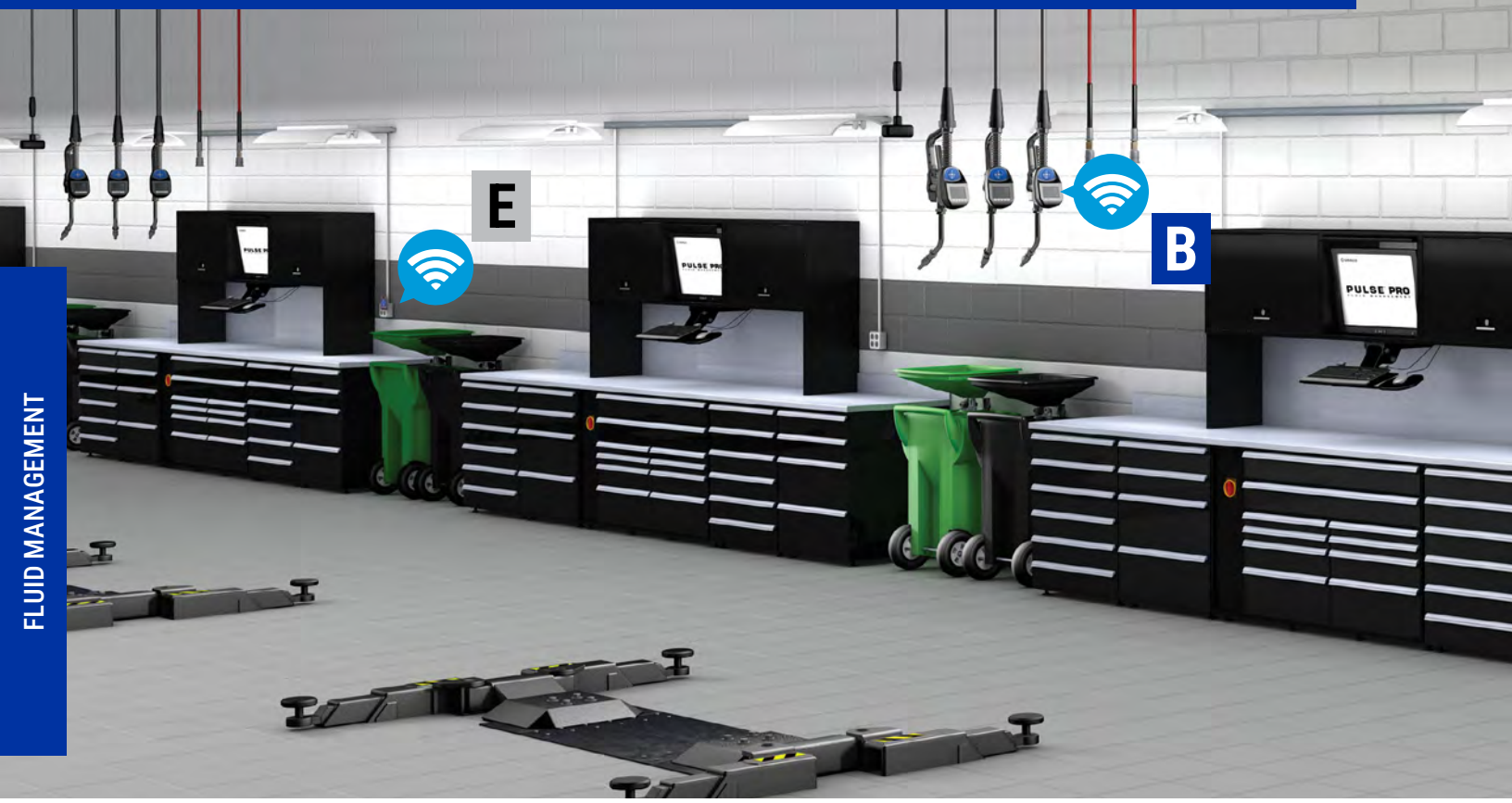
FLUID MANAGEMENT SYSTEM SELECTION GUIDE

CHOOSING A GRACO FLUID MANAGEMENT SOLUTION

FEATURE	TRADITIONAL BOX	PULSE FC	PULSE PRO	PULSE ASSET
CONTROL. Regulate the amount of fluid that's dispensed to reduce spillage and waste.				
Allow control of dispenses	•	•	•	•
Restrict the quantity of fluid	•	•	•	•
Ensure correct amount of fluid	•	•	•	•
METERS. Put control into the hands of your technicians and maintenance teams so they can be more productive, accurate and accountable.				
Works with petroleum, synthetic based oils, antifreeze	•	•	•	•
Works with windshield wash solvent	•		•	•
Meter displays quantity dispensed		•	•	•
Fluid measured at dispense point (highly accurate)		•	•	•
Record dispenses offline then sync to HUB when connected				•
INSTALLATION. Seamless integration simplifies dispenses without compromising workflows or productivity.				
Works with oil bar	•	•	•	•
Wire-free installation		•	•	•
Wireless communication			•	•
Pump air control (PAC)	•		•	•
FLEXIBILITY. Accommodate emerging demands to maintain or expand productivity and profitability.				
Works with mobile roll-around packages		•	•	•
Easy expansion with additional fluids		•	•	•
Easy upgrade to comprehensive fluid management		•	N/A	N/A
USER INTERFACE. Access the information necessary to make more informed decisions quickly.				
Simple PC-based software		•		
No software to install			•	•
Accessible from any PC, phone or tablet			•	•
FLUID MANAGEMENT. Improve accountability for your entire operations.				
Track dispenses by invoice, work order or asset			•	•
Track dispenses by technician			•	•
Record fluid type and quantity dispensed			•	•
Keeps technician in service bay			•	
FLUID INVENTORY. Simplify how you re-order and store inventory to minimize delays.				
Monitor tank levels (TLM)			•	•
Dealer Management Solution (DMS) integration			•	•
REPORTING. Capture critical information and insights 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

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.

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

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

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

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

Accurate billing. Automatically assign every ounce of fluid directly to a work order to simplify billing and maximize profit margins.

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

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

STEPS TO BUILD YOUR PULSE PRO SYSTEM:

A Hub with Software

1 REQUIRED

B Add Meters

MINIMUM 1 REQUIRED

ADD ACCESSORIES

C Tank Level Monitor (TLM)

Tank Level Monitor can be used as a standalone product.

OPTIONAL

D Pump Air Controller (PAC)

OPTIONAL

E Pulse Extender and Pulse Remote Extender

OPTIONAL

F Roll Around Package

OPTIONAL

G Oil Bar Dispenser

OPTIONAL

H Pulse Universal Controller

OPTIONAL

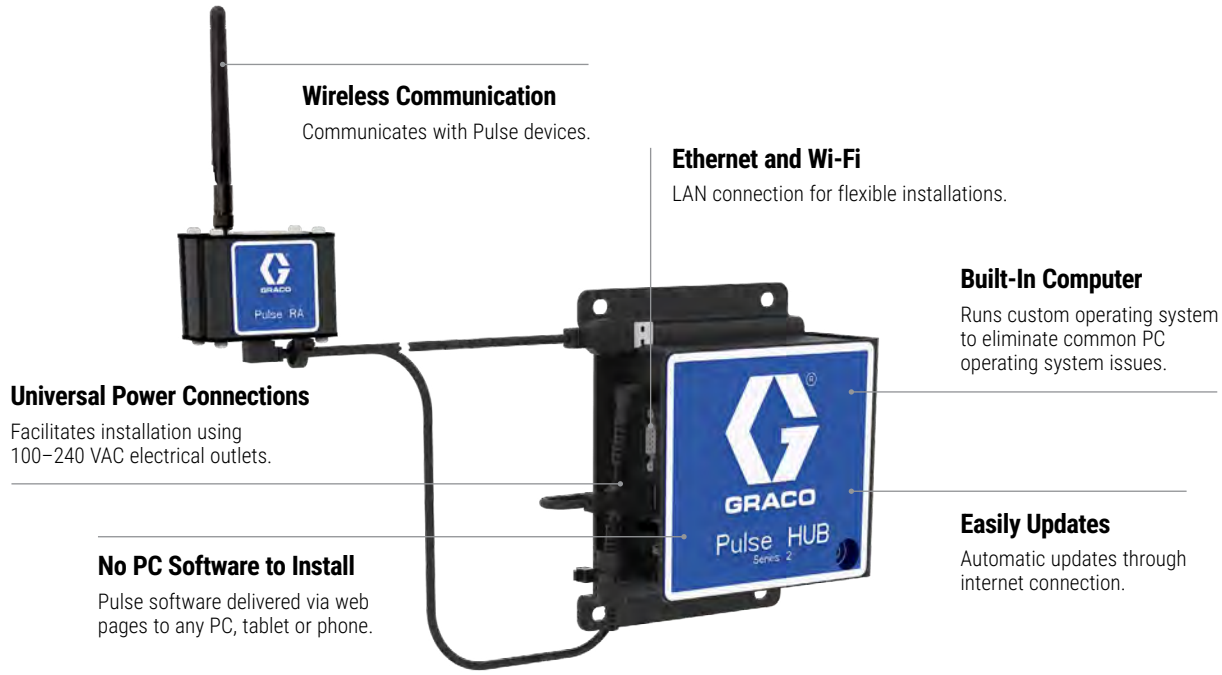
PULSE® PRO FLUID MANAGEMENT

A PULSE HUB

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

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

TECHNICAL SPECIFICATIONS

Weight	1.45 lb (660 gm)
Power Supply	
Input Power	100–240 VAC line voltage (0.05 A)
To Hub	5 VDC (0.5 amps)
Warranty	Two years electronics

A ORDERING OPTIONS

Part Number	Description
25U972	Hub for non-CE 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

- 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

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

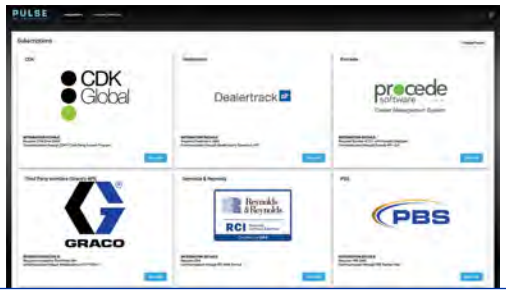
- Requires Excede v9.22+ with Excede Database
- Communication through Excede API v2.0

- 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:

1 WORK ORDER VALIDATION

With DMS integration, dispenses occur only when a valid work order exists.

2 WORK ORDER POSTING

Pulse software communicates with the DMS, posting the dispense to the work order.

ORDERING OPTIONS

INTERFACE ACTIVATION CODES

Part Number	Description
25R975	Pulse software with CDK Global Drive
25R976	Pulse software with Dealertrack
25R977	Pulse software with AssetWORKS
25R978	Pulse software with Reynolds & Reynolds
25R979	Pulse software with Procede Software – 2nd site
25R980	Pulse software with Procede Software
25R981	Pulse software with PBS

B PULSE DISPENSE METER

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

Long Battery Life
Uses four off-the-shelf AA batteries – easy to replace.

Large, Intuitive Display
High-contrast display for low- and bright-light conditions.

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

Faster PIN Entry
Built-in NFC reader and simple, efficient controls.

Wireless Communication
Communicates dispense information with Hub.

Ergonomic Design
Lower button placement.

Long-Life Valve Design
Cartridge design for long life and easier repair.

Protective Trigger Guard
Prevents accidental dispenses.

TECHNICAL SPECIFICATIONS

Flow Range*	0.25 to 18 gpm (0.9 to 68 lpm)
Maximum Working Pressure	1,500 psi (103.4 bar)
Units of Measure (factory set to quarts)	Pints, quarts, gallons, liters
Weight	5.3 lbs (2.4 kg)
Inlet	1/2 in NPT or 3/4 in NPT
Outlet	3/4 in straight thread O-ring boss
Dimensions (without extension) – L x W x H	13 in x 3.75 in x 5.75 in (33 cm x 9.5 cm x 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 steel
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.

B ORDERING OPTIONS

8 GPM (30 LPM) METERS

Fluid	Extension	Nozzle	Size (in)	Part Number
Oil	Flexible	Automatic Quick-Close	1/2	25M319
	Rigid			25M317
	Semi-Rigid			2009326
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
	Rigid	Oil	Automatic, non-drip, quick-close	255852	Pulse 8 gpm
		Antifreeze	Non-drip, quick-close	26C267	Pulse 8 gpm
		Oil/Antifreeze	High-flow, non-drip, quick-close	255857	Pulse 18 gpm
Image to come	Semi-Rigid	Oil	Automatic, non-drip, quick-close	2004991	Pulse 8 gpm
	Rigid	Gear lube	Non-drip, quick-close	255854	Pulse 8 gpm
	Flexible	Oil	Automatic, non-drip, quick-close	255853	Pulse 8 gpm
		Antifreeze	Non-drip, quick-close	26C268	Pulse 8 gpm
		Oil/Antifreeze	High-flow, non-drip, quick-close	255858	Pulse 18 gpm
	Nozzle Only	Oil	Automatic, non-drip, quick-close	17R220	Pulse 8 gpm
		Antifreeze	Non-drip, quick-close	17T207	Pulse 8 gpm
		Oil/Antifreeze	High-flow, non-drip, quick-close	255461	Pulse 18 gpm
	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.

PULSE METER FILTER KITS

Part Number	Description
25D906	Filter kit includes filters/strainers (15M308) and O-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
	131226	Pulse / SD meter boot

C PULSE TANK LEVEL MONITOR (TLM)

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

Simple Wireless Setup
Automatic network identification.

Built-In Display
Real-time level visible from built-in display.

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

Supports Multiple Tank Shapes
Ability to input strapping table for any tank shape.

Tough Exterior
Sealed enclosure to accommodate outdoor usage.

On-Demand Readings
Ability to take reading at any time.

Compact Design
Easily fits into more spaces.

C ORDERING OPTIONS

Part Number	Description
2007428	Tank Level Monitor (TLM)

TECHNICAL SPECIFICATIONS

Ultrasonic Tank Depth Measurement range (Not for use in pressurized tanks)	5 in to 13 ft (12.7 cm to 3.96 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])	-4°F to 140°F (-20°C to 60°C)
Storage Temperature Range	-40°F to 185°F (-40°C to 85°C)
Batteries	Four AA alkaline
Enclosure	IP65
RF Communication	2,400 to 2,483.5 MHz
Vertical Tanks	
Maximum Volume	999,999 gal (999,999 l)
Maximum Height	13 ft (3.96 m)
Cylindrical Tanks	
Maximum Volume	999,999 gal (999,999 l)
Maximum Height	13 ft (3.96 m)
Maximum Length	13 ft (3.96 m)
Maximum Width	13 ft (3.96 m)
Fluid Compatibility	Automatic transmission fluid, antifreeze, window wash, coolant, waste water
Warranty	Two years electronics

D PULSE PUMP AIR CONTROL (PAC)

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

Compact Design
Allows for mounting directly on pump or in tight spaces.

Easy Installation
Built-in mounting bracket.

Simple Wireless Setup
Automatic network identification.

Rugged Exterior
Sealed enclosure to protect internal components.

High-Volume Air Valve
Supports a variety of pumps.

Multiple Wiring Options
NEMA 5-15 plug or flying leads.

Multiple Thread Options
NPT and BSPP air valve options.

D ORDERING OPTIONS

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 m^3/min)
Power Supply	100–240 VAC line voltage, 24 VDC solenoid
Power Cord	
Model 24Z676, 24Z677	6 ft SJOOW, 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, outlet, 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 – L x W x H	9.5 in x 2.25 x 3.75 in (241.3 mm x 57.2 mm x 95.3 mm)
Warranty	Two years electronics

PULSE® PRO FLUID MANAGEMENT

E 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.

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 OPTIONS

Part Number	Description
20A058	Pulse Pro Extender

E 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.

TECHNICAL SPECIFICATIONS

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

E ORDERING OPTIONS

Part Number	Description
17F878	Remote Extender with global power adapter

F 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.

ORDERING OPTIONS

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

G OIL BAR

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

ORDERING OPTIONS

OIL BAR

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

H PULSE UNIVERSAL CONTROLLER

Manage any fluid dispense with Pulse Fluid Management – including diesel and DEF.

ORDERING OPTIONS

PULSE UNIVERSAL CONTROLLER

Part Number	Description
25V710	Pulse Pro Universal Controller

ACCESSORIES

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 profitability.

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® ASSET FLUID MANAGEMENT

Pulse Asset Fluid Management is designed for applications where wireless signal may not always be available, Pulse Asset is a platform-based system that wirelessly tracks what machines are getting filled, how much fluid is used, who did the dispense and when the dispense occurred.

WHY PULSE ASSET FLUID MANAGEMENT?

ROI

Pulse Asset allows recording of every drop of fluid dispensed on the factory floor – reducing fluid usage and keeping expenses down. With Pulse Asset, you'll optimize equipment uptime and stay ahead of the competition.

EFFICIENCY AND SAFETY

Make reactive maintenance a thing of the past. Automated recording of dispenses reduces the chance of errors and optimizes fluid delivery practices. Identify leaking assets and reduce the risk of fluid spills before they happen.

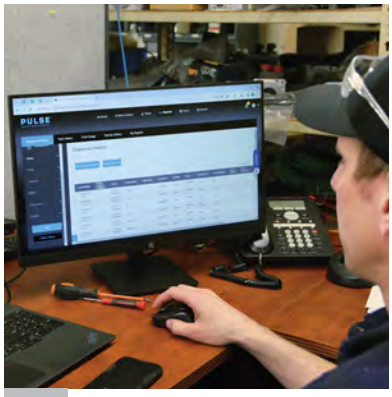
SIMPLICITY AND RELIABILITY

This simple system allows anybody to be trained to use – from the factory floor to the manufacturing line. The robust testing done ensures Pulse Asset exceeds quality standards, to provide many years of reliable service.

EASE OF OPERATION*

1 Fill assets utilizing meter that records up to 40 dispenses.

2 Sync the meter to the HUB once dispenses are complete.



3 Analyze dispense history on any PC, phone or tablet connected to LAN.

*Please refer to the owners manual for more information.

ORDERING OPTIONS

PULSE ASSET STARTER KIT

Part Number	Description
2006744	Includes one HUB, one NFC reader-writer and one 25 pack of NFC pendants

COMPONENTS

Part Number	Description
26D776	8 gpm Dispense Meter with 1/2 in NPT inlet – rigid extension, oil nozzle
26D777	8 gpm Dispense Meter with 1/2 in NPT inlet – rigid extension, coolant nozzle
26D784	18 gpm Dispense Meter with 3/4 in NPT inlet – rigid extension, high flow oil-coolant nozzle
131462	NFC pendants, blue with Graco logo – 25 pack
2006845	Adhesive NFC tags – 25 pack
18G102	Replacement NFC reader-writer – note that one is already included with Pulse Asset Starter Kit

PULSE ASSET UNIVERSAL CONTROLLER

Part Number	Description
25V711	Pulse Asset Universal Controller

OIL PUMP AND METER PACKAGES

Part Number	Description
2006857	16 gallon kit with 1:1 Fast-Ball 100 pump
2006858	55 gallon with 1:1 Fast-Ball 100 pump
2006859	Universal with 1:1 Fast-Ball 100 pump
2006860	16 gallon with 5:1 Fire-Ball 300 pump
2006861	55 gallon with 5:1 Fire-Ball 300 pump
2006862	Universal with 5:1 Fire-Ball 300 pump

Each kit includes a pump with bung adapter, an Asset meter with rigid extension, and a hose kit with 6 ft air hose and 6 ft oil hose. 16 and 55 gallon kits also include hand truck for oil barrel (barrel not included).

DEMO KITS

Part Number	Description
2006727	Pulse Asset Full Demo Kit. Includes Pulse HUB, demo meter with cutaway gear chamber, NFC reader-writer, 25-pack of NFC pendants and a Pulse Extender in a wheeled hard case with foam inserts.
2006728	Pulse Asset Demo Meter Kit. Includes demo meter with cutaway gear chamber, NFC reader-writer and a 25-pack of NFC pendants in a hard case with foam inserts.

PULSE® FC FLUID CONTROL

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.

STEPS TO BUILD YOUR PULSE FC SYSTEM:

A Starter Kit

1 REQUIRED

B Add SD™ Preset Meters

MINIMUM 1 REQUIRED

Add Accessories

C Oil Bar Dispenser

Roll Around Package

OPTIONAL

HOW IT WORKS

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.

PARTS ROOM/BACK OFFICE	TECHNICIAN	WORKSHOP
1 Program fluid card with Pulse FC software and card programmer	2 Card passed to technician	3 Card tapped on any meter of correct fluid and meter is preset and restricted to the programmed quantity
5 Software indicates card has been returned and is ready to be reused	4 Card is returned to parts room	

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 FLUID CONTROL

A PULSE FC STARTER KIT

Enjoy an easy-to-use, easy-to-install, out-of-the-box fluid control system designed for fast wire-free setup and configuration. Pulse FC integrates into existing or new environments quickly and cost-effectively without interrupting daily operations.

Pulse FC Programmer

Easily program cards for dispense or fluid totals.

Pulse FC Fluid Cards

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

Pulse FC Software

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

Pulse FC Software Quick Start

Easy-to-follow instructions for quick system setup.

A ORDERING OPTIONS

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

B SD™ PRESET DISPENSE METERS

With Pulse FC, dispense only precise volumes to create efficiencies for your entire shop operation. Monitor how much fluid you're using. Choose the amount of fluid each technician can dispense in order to maintain accurate inventory.

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™ FC and upgradeable to Pulse™ 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

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

TECHNICAL 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.

PULSE® FC FLUID CONTROL

B ORDERING OPTIONS

SD™ PRESET ELECTRONIC METERS

26C384

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

NOZZLE AND EXTENSION KITS

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

C ORDERING OPTIONS

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.

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

Part Number	Description
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 O-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
	131226	Pulse / SD meter boot

PULSE® LEVEL FLUID MANAGEMENT

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:

25T460

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.

25T461

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.

25T462

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 APPLICATIONS

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

TYPICAL FLUIDS

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

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.

On-Demand Reading
Ability to take reading at any time.

Long Battery Life
5-year battery life with replaceable C batteries.

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.

Hazardous-Location Rating
Approved for use with flammable fluids such as gasoline.

Submersible Pressure Sensor
Measure tanks up to 30 ft tall.

PULSE® LEVEL FLUID MANAGEMENT

TECHNICAL SPECIFICATIONS

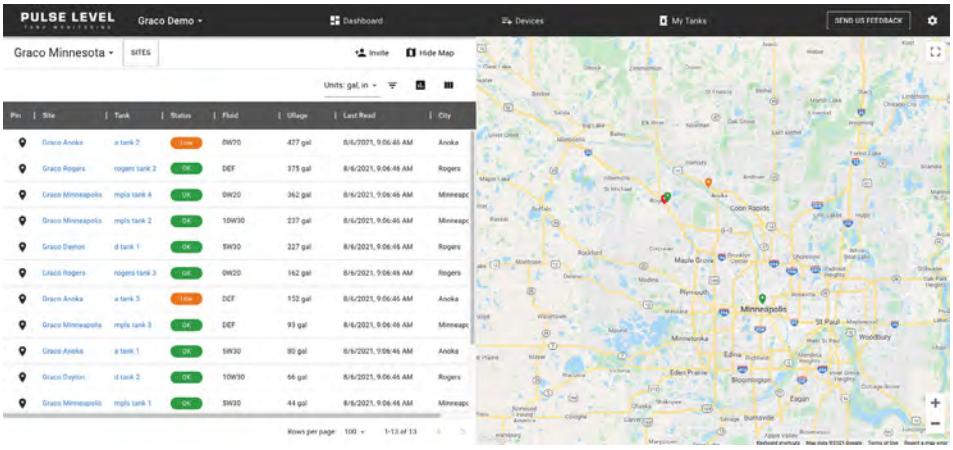
	Ultrasonic Wi-Fi TLM	Ultrasonic Cellular TLM	Pressure Cellular TLM
Compatible Fluids	Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water	Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water	Oil, kerosene, diesel, 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



FLUID DEFENDER®

DON'T TAKE RISKS WITH YOUR BULK FLUIDS

Designed for control of bulk fluid tanks, preventing overfill and pump runaway.

Monitor and Control up to 5 Tanks

Manage an entire tank room with one system.

Fresh Oil and Waste Oil Monitoring

Provides emergency shut off, over-fill and run away protection.

Remote Filling

Allows for up to 1,000 feet between control box and tanks.

Alarm Notifications

Siren, rotating beacon and remote lights.

Pulse Integration

Integrate with Pulse® software for increased insights, analysis and control.

FLUID DEFENDER

Control and monitor up to 5 tanks and utilize air solenoids to increase control and defend from overfill or pump run away.

PULSE FLUID DEFENDER

Receive valuable tank data into the Pulse Pro software to further improve tracking and management of bulk fluids. Set email alerts to increase visibility to alarms during off-business hours.

TYPICAL APPLICATIONS

- Service shops
- Automotive dealerships
- Fast lube centers
- Agriculture dealers

ORDERING OPTIONS

Part Number	Description
25V470	Fluid Defender
25V471	Pulse Fluid Defender
25V475	High Level Float
25V476	Low Level 10 ft Float
25V477	Low Level 30 ft Float
25V478	Dual Level 10 ft Float
25V479	Dual Level 30 ft Float
25V482	Air Control Solenoid
18G108	Single Light Bracket Kit
18G109	Multi-Light Bracket Kit

25V478

18G109

TECHNICAL SPECIFICATIONS

CONTROLLERS	
Dimensions (W x H x D)	11.88 in x 10.29 in x 6.43 in (30.18 cm x 26.14 cm x 16.33 cm)
Weight	5 lbs (2.27 kg)
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Enclosure Rating	NEMA Type 3R
Power Requirement	120 VAC
Audible Alarm	Yes
Audible Alarm Pressure Level	103 dB(A)
Visual Alarm Indicators	Rotating beacon, red light, remote light (optional), email notification (Pulse)
Channels	5
FLOATS	
Single Tank Versions	10 ft and 30 ft (3.05 m and 9.14 m)
Dual Tank Versions	10 ft and 30 ft (3.05 m and 9.14 m)
Intended Use	Motor Oil, Waste Oil, ATF, Antifreeze, Diesel, WWS
Minimum Specific Gravity	0.75
Amp Rating	0.1 amp
Maximum Fluid Viscosity	2,000 centipoise
Temperature Range	14°F to 122°F (-10°C to 50°C)
Minimum Detectable Tank Level	2 in (5.1 cm)
Minimum Head Space	5.5 in (2.54 cm)

TRADITIONAL BOX – WIRED FLUID CONTROL COMPONENTS

ORDERING OPTIONS

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 features as 215487.
110025	Bare fluid solenoid valve, 1/2 in NPT(F) 3,000 psi, same features as 215487 above, but without wiring connectors or adapters.

READY-LIGHT KITS

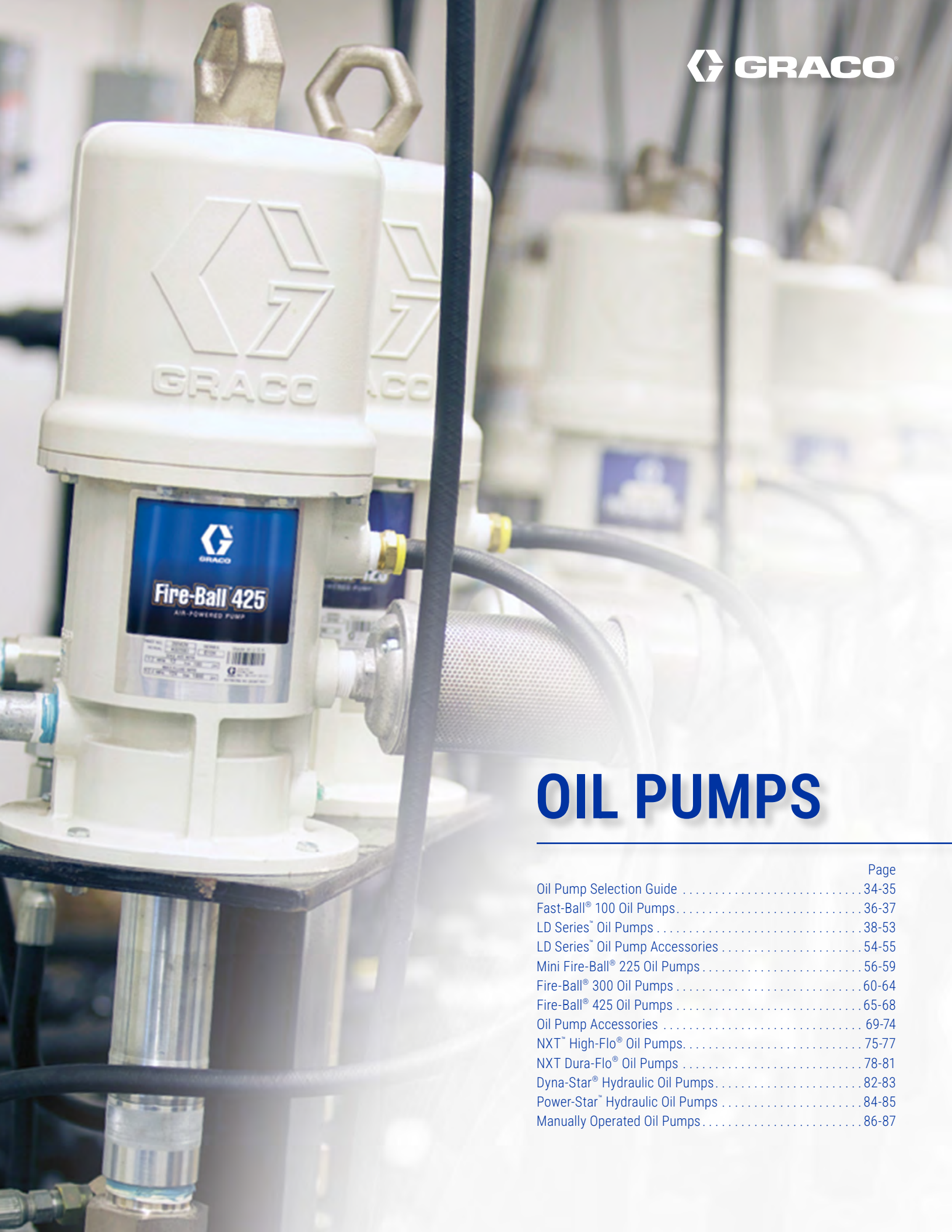
Part Number	Description
218588	Ready-light kit, signals operator when dispensing can begin. Includes "ready to dispense" indicator light (239019), strainer (240417), fluid solenoid valve (215487) and hardware.
238996	Ready-light with junction box (no solenoid or strainer)
239019	Ready-to-dispense indicator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

INSTALLATION COMPONENTS

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

CONNECTING CABLES FOR CONNECTING SOLENOIDS AND CONSOLES, 90-VOLT, 2-WIRE, 18-GAUGE

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



OIL PUMPS

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OIL PUMP SELECTION GUIDE

Pump Family and Fluid Pressure Ratio	Typical Applications	Annual Usage	Line Length	Simultaneous Dispense Points	Approximate Free Flow Rate @ 100 psi	Air Inlet	Fluid Inlet	Fluid Outlet	Air Operation Range	Reference Page
Fast-Ball 100	• Fluid transfer • Specialty fluid dispenses • Point of use • Mobile fluid carts	5,000 gal (19,00 l)	< 100 ft (30 m)	1 (no reels)	5 gpm (18.9 lpm)	1/4 NPT(F)	1 NPT(F)	3/4 NPT(F)	40-150 psi (2.8-10.3 bar)	36
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 (29.5 lpm)	1/4 NPT(F)	1 NPT(F)	1/2 NPT(F)	20-150 psi (1.37-10.3 bar)	38
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	5 gpm (18.9 lpm)	1/4 NPT(F)	1 NPT(F)	1/2 NPT(F)	20-150 psi (1.37-10.3 bar)	38
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	1.8 gpm (6.8 lpm)	3/8 NPT(F)	1-1/2 NPT(F)	1/2 NPT(F)	40-180 psi (2.8-12 bar)	56
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	3 gpm (11.4 lpm)	3/8 NPT(F)	1-1/2 NPT(F)	1/2 NPT(F)	40-180 psi (2.8-12 bar)	60
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	10 gpm (37.9 lpm)	1/2 NPT(F)	1-1/2 NPT(F)	3/4 NPT(F)	40-180 psi (2.8-12 bar)	65
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	6 gpm (22.7 lpm)	1/2 NPT(F)	1-1/2 NPT(F)	3/4 NPT(F)	40-180 psi (2.8-12 bar)	65
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	4 gpm (@ 60 cpm) (lpm)	1/2 NPT(F)	1-1/2 NPT(F)	3/4 NPT(F)	40-180 psi (2.8-12 bar)	65

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)	75
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)	75
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)	78
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)	78
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)	78
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)	78

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)	82
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)	82
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)	84

FAST-BALL® 100 OIL PUMPS

DESIGNED FOR ENHANCED QUALITY, DURABILITY AND RELIABILITY

When you purchase Graco, you expect the best. The fully redesigned Fast-Ball delivers unmatched Graco performance and operation. Its simple, easy-to-install design allows for efficient serviceability to minimize downtime and keep your operations running.

In-Line Design
Means fewer parts for less pump wear.

Double-Acting Pump
Provides reliable fluid flow.

Differential Air Motor
Ensures smooth pump operation.

5-Year Warranty
Graco's quality guarantee and peace of mind.

TYPICAL APPLICATIONS

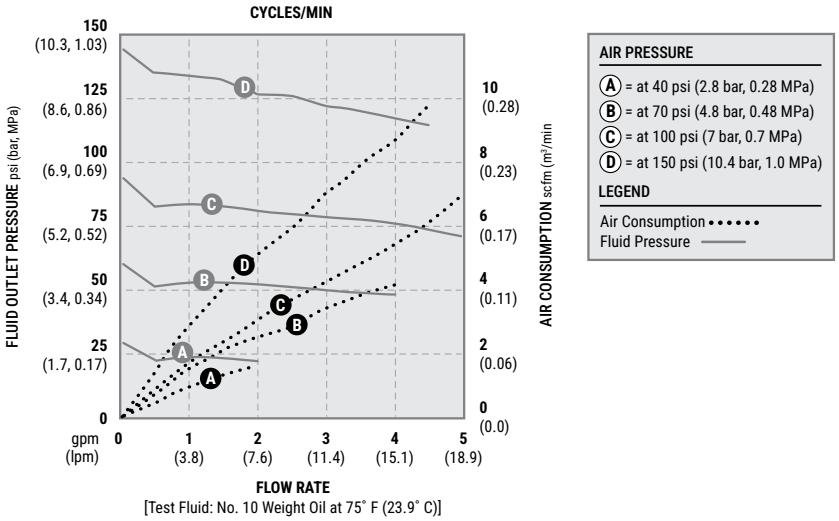
- Fluid transfer
- Specialty fluid dispenses
- Point of use
- Mobile fluid carts

TYPICAL FLUIDS

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

PUMP PERFORMANCE

Fast-Ball 100 Performance



[Test Fluid: No. 10 Weight Oil at 75° F (23.9° C)]

TECHNICAL SPECIFICATIONS

Air Inlet Size	1/4 in NPT
Air Operating Range	40-150 psi (2.8-10.3 bar)
Compatible Material	Oil, Gear Lube, ATF
Maximum Fluid Flow	12.5 gpm (47.3 lpm)
Fluid Inlet Size	1 in NPT
Fluid Outlet Size	3/4 in NPT
Maximum Air Inlet Pressure	150 psi (10.3 bar)
Maximum Continuous Cycle Rate	100 cpm
Maximum Working Pressure	150 psi (10.3 bar)
Power Type	Pneumatic
Pump Ratio	1:1
Sound Power Level	78 dB(A)
Weight	6.3-9.8 lbs (2.9-4.4 kg)

ORDERING OPTIONS

PUMPS

Part Number	Description
279035	Universal Length Pump
279036	Cut-to-Length PVC Downtube Pump
279037	55 Gallon Drum Length Pump

PUMP PACKAGES

Package Number	2000726	2000727
Type of Package	Spigot Kit	Mobile Dolly Kit
Container Size	55 gal (200 l)	55 gal (200 l)
Ratio	1:1	1:1
Pump	279037	279037
Dispense Kit	218115	247712
Air Regulator Kit	218316	24H420
Air Hose Size	1/4 in x 6 ft	3/8 in x 6 ft
Fluid Hose Size	–	1/2 in x 15 ft
Dolly Base	–	129645
Instruction Manual	3A9348	3A9348

LD SERIES OIL PUMPS

DURABLE AND HARDWORKING

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

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.

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.

Three Inch Air Motor

Provides more power to create better 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

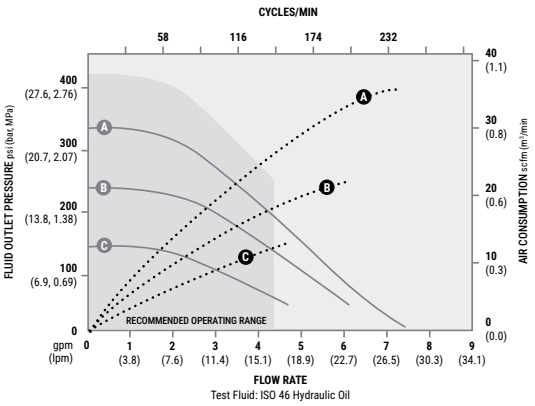
- Automotive dealerships
- Fast lube centers
- Service shops

TYPICAL FLUIDS

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

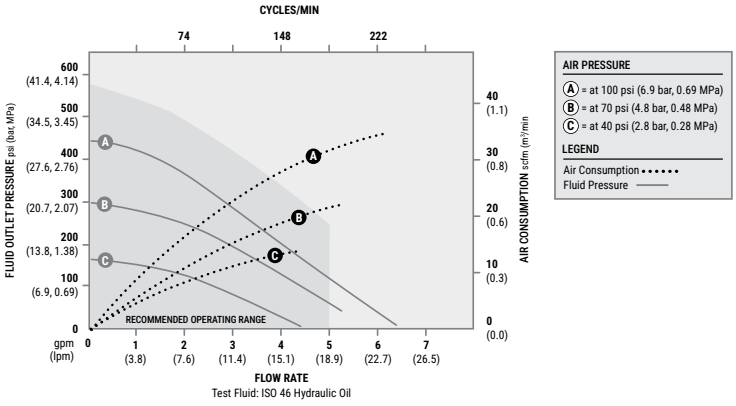
PUMP PERFORMANCE

LD SERIES 3:1 PUMPS



Test Fluid: ISO 46 Hydraulic Oil

LD SERIES 5:1 PUMPS



Test Fluid: ISO 46 Hydraulic Oil

TECHNICAL SPECIFICATIONS

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

ORDERING OPTIONS

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 OPTIONS

MOBILE OIL PACKAGES – CART

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

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

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

ORDERING OPTIONS

MOBILE OIL PACKAGES – DOLLY

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

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

LD SERIES 3:1 OIL PUMP PACKAGES

ORDERING OPTIONS

WALL MOUNT OIL PACKAGES

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

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

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

Stationary Oil Packages

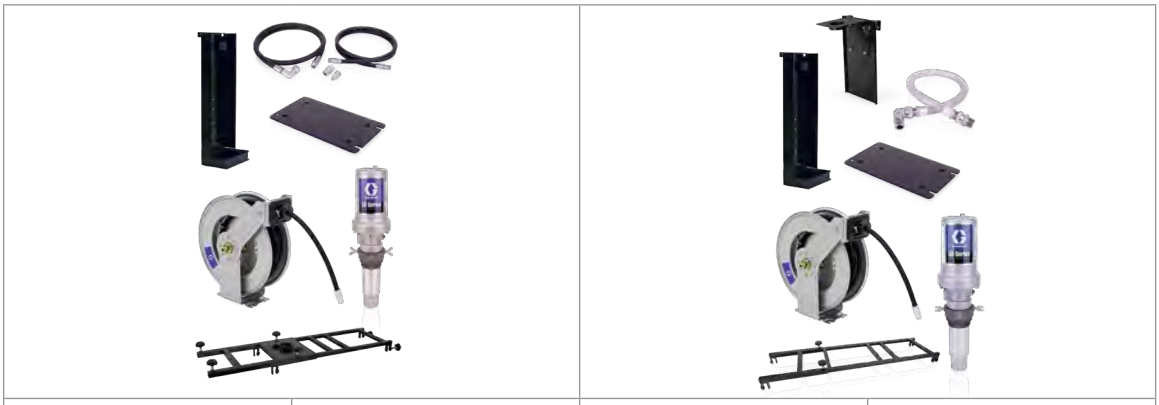
Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.

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

ORDERING OPTIONS

STATIONARY OIL PACKAGES – TOTE

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



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

LD SERIES 3:1 OIL PUMP PACKAGES

ORDERING OPTIONS

DELUXE STATIONARY OIL PACKAGES – TOTE

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

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

ORDERING OPTIONS

TANK MOUNT OIL PACKAGES

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

Package Number	24J776	24J733	24J734	24K836
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Hose Reel Type	LDX	SDX	SDX	SDX
Hose Reel	HEM004	SDM65B	SDM65B	SDM65B
Meter Type	Manual	Manual	Preset	Manual
Meter Part Number	25C903	25C903	256216	25C904
Meter Extension	Rigid	Rigid	Rigid	Flexible
Inlet Kit	25U371	218549	218549	218549
Instruction Manual	3A1335	3A1335	3A1335	3A1335

LD SERIES 3:1 OIL PUMP PACKAGES

ORDERING OPTIONS

DELUXE TANK MOUNT OIL PACKAGES

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

Package Number	24K777	24K797	24K799	24K834
Ratio	3:1	3:1	3:1	3:1
Pump Part Number	24G576	24G576	24G576	24G576
Hose Reel Type	SDX	SDX	SDX	SDX
Hose Size	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 35 ft
Hose Reel	SDM65B	SDM65B	SDM65B	SDM33B
Meter Type	Preset	Manual	Manual	Manual
Meter Part Number	256216	25C903	25C904	25C903
Meter Extension	Rigid	Rigid	Flexible	Rigid
Air and Fluid Hoses with Fittings	24J495	24J495	24J495	24J495
Mini Air Regulator with Gauge	24H420	24H420	24H420	24H420
Instruction Manual	3A1335	3A1335	3A1335	3A1335

LD SERIES 5:1 OIL PUMP PACKAGES

ORDERING OPTIONS

MOBILE OIL PACKAGES – CART

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

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

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

LD SERIES 5:1 OIL PUMP PACKAGES

ORDERING OPTIONS

MOBILE OIL PACKAGES – DOLLY

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

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

ORDERING OPTIONS

WALL MOUNT OIL PACKAGES

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

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

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

STATIONARY OIL PACKAGES

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

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

LD SERIES 5:1 OIL PUMP PACKAGES

ORDERING OPTIONS

STATIONARY OIL PACKAGES – TOTE

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

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

ORDERING OPTIONS

DELUXE STATIONARY OIL PACKAGES – TOTE

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

Package Number	24K839	24K843
Ratio	5:1	5:1
Pump Part Number	24G588	24G588
Suction Tube Length	275 gal (1,040 l)	275 gal (1,040 l)
Pump Downtube	16F885	16F885
Reel Type	SDX	SDX
Hose Reel Part Number	SDM65B	SDM65B
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 OPTIONS

OIL PACKAGES – TANK MOUNT

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

Package Number	24J777	24J735	24J736	24K837
Ratio	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588
Reel Type	LDX	SDX	SDX	SDX
Hose Reel Part Number	HEM004	SDM65B	SDM65B	SDM65B
Meter Type	Manual	Manual	Preset	Manual
Meter Part Number	25C903	25C903	256216	25C904
Meter Extension	Rigid	Rigid	Rigid	Flexible
Inlet Kit	25U371	218549	218549	218549
Instruction Manual	3A1335	3A1335	3A1335	3A1335

ORDERING OPTIONS

DELUXE OIL PACKAGES – TANK MOUNT

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

Package Number	24K796	24K798	24K800	24K835
Ratio	5:1	5:1	5:1	5:1
Pump Part Number	24G588	24G588	24G588	24G588
Reel Type	SDX	SDX	SDX	SDX
Hose Size	1/2 in x 50 ft (12.7 mm x 15 m)	1/2 in x 50 ft (12.7 mm x 15 m)	1/2 in x 50 ft (12.7 mm x 15 m)	1/2 in x 35 ft (12.7 mm x 10.6 m)
Hose Reel Part Number	SDM65B	SDM65B	SDM65B	SDM33B
Meter Type	Preset	Manual	Manual	Manual
Meter Part Number	256216	25C903	25C904	25C903
Meter Extension	Rigid	Rigid	Flexible	Rigid
Air and Fluid Hoses with Fittings	24J495	24J495	24J495	24J495
Mini Air Regulator with Gauge	24H420	24H420	24H420	24H420
Instruction Manual	3A1335	3A1335	3A1335	3A1335

LD SERIES OIL PUMP ACCESSORIES

ORDERING OPTIONS

AIR REGULATORS

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

CARTS

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

LD DRUM DOLLIES

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

DOWNTUBES

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

DRUM COVERS

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

HOSE AND FITTING KITS

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

ORDERING OPTIONS

SUCTION KITS

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

MOUNTING HARDWARE

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

TOTE MOUNT ACCESSORIES

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

MINI FIRE-BALL® 225 OIL PUMPS

PERFECT FOR MEDIUM PRESSURE, LOW-VOLUME APPLICATIONS

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

Durable Casting

Thick cast 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

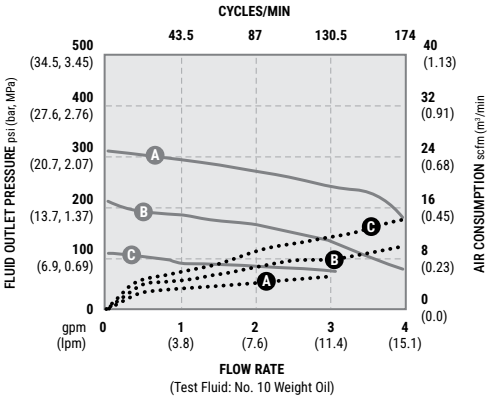
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

TYPICAL FLUIDS

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

PUMP PERFORMANCE

Mini Fire-Ball 225 3:1 Performance



AIR PRESSURE

(A) = at 100 psi (6.9 bar, 0.69 MPa)
(B) = at 70 psi (4.8 bar, 0.48 MPa)
(C) = at 40 psi (2.8 bar, 0.28 MPa)

LEGEND

Air Consumption ••••••
Fluid Pressure ——

TECHNICAL SPECIFICATIONS

Fluid Pressure Ratio	3:1
Air Motor Effective Diameter	2.25 in (57.2 mm)
Maximum Fluid Working Pressure	540 psi (37 bar / 3.7 MPa)
Approximate Free Flow Rate @ 100 psi	8.3 gal/min (32 liters/min)
Output per Cycle	87 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	9 scfm @ 1.9 gpm (0.25 m^3/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 OPTIONS

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 OPTIONS

OIL PACKAGES

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

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

ORDERING OPTIONS

BULK OIL DISPENSING PACKAGES

Package Number	248623*	248622*	24F205	24F206
Ratio	3:1	3:1	3:1	3:1
Pump	248097	248097	246775	246775
Bung Adapter	–	–	222308	222308
Reel Size	1/2 in x 50 ft (12.7 mm x 15.2 m)	1/2 in x 35 ft (12.7 mm x 11 m)	1/2 in x 50 ft (12.7 mm x 15.2 m)	1/2 in x 50 ft (12.7 mm x 15.2 m)
Reel Type	SDX	SDX	SDX	SDX
Hose Reel	SDM65B	SDM33B	SDM65B	SDM65B
Meter Type	EM8	EM8	Mechanical	EM8
Manual/Preset	Manual	Manual	Manual	Manual
Meter	25C903	25C903	24V034	25C903
Installation Kit	–	–	222062	222062
Air Regulator	–	–	109075	109075
Instruction Manual	309868, 312668, 313431	309868, 312668, 313431	309868, 313431	309868, 313431

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

FIRE-BALL 300 5:1 OIL PUMPS

IDEAL FOR MEDIUM-SIZED SHOPS WITH HIGH-PRESSURE OIL TRANSFER

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

Durable Casting

Thick cast 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.

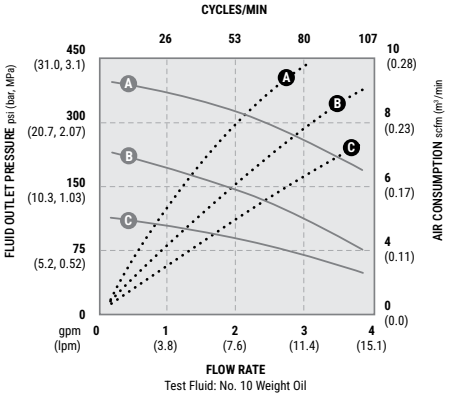
TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

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

PUMP PERFORMANCE



Test Fluid: No. 10 Weight Oil

AIR PRESSURE

(A) = at 100 psi (6.9 bar, 0.69 MPa)
(B) = at 70 psi (4.8 bar, 0.48 MPa)
(C) = at 40 psi (2.8 bar, 0.28 MPa)

LEGEND

Air Consumption • • • • • •
Fluid Pressure ——

TECHNICAL SPECIFICATIONS

Fluid Pressure Ratio	5:1
Air Motor Effective Diameter	3 in (76.2 mm)
Maximum Fluid Working Pressure	900 psi (62 bar / 6.2 MPa)
Approximate Free Flow Rate @ 100 psi	12.1 gal/min (46 liters/min)
Output per Cycle	133 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	16 scfm @ 2.8 gpm (0.45 m^3/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 OPTIONS

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 OPTIONS

OIL PUMP PACKAGES

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

*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) installation kit (224512) as required.
**Order low-level cut- off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) air regulator (109075) as required; must be ordered separately.

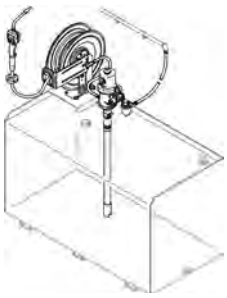
ORDERING OPTIONS

BULK OIL DISPENSING PACKAGES

Package Number	241633*	224541*	244038*	224534*
Ratio	5:1	5:1	5:1	5:1
Dispensing Location	–	–	–	Bench/Top Tank
Pump	203876	203876	203876	203876
Regulator/Gauge	109075	109075	109075	109075
Nipple	156849	156849	156849	156849
Bung Adapter	222308	222308	222308	222308
Reel Size	1/2 in x 35 ft	1/2 in x 50 ft	1/2 in x 50 ft	1/2 in x 50 ft
Reel Type	SDX	SDX	SDX	SDX
Hose Reel	SDM33B	SDM65B	SDM65B	SDM65B
Type of Meter	SD	SD	SD	SD
Manual/Preset	Manual	Manual	Preset	Manual
Meter	25M404	25M404	26C384	25M404
90° Swivel	–	–	–	157416
Air Filter	–	–	–	106148
Drain Valve	–	–	–	127711
Hose	–	220598	220598	222063
Thermal Relief Valve	–	–	–	237893
Hose Reel Inlet Kit (Not Included)	218549	218549	218549	218549

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

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



FIRE-BALL 300 5:1 OIL PUMP PACKAGES

ORDERING OPTIONS

LUBE TRUCK PACKAGES

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

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

FIRE-BALL 425 OIL PUMPS

THE PUMP OF CHOICE FOR YOUR MOST DEMANDING HIGH-VOLUME APPLICATIONS

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

Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

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

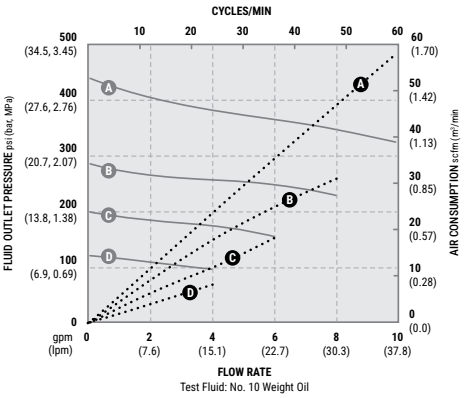
TYPICAL FLUIDS

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

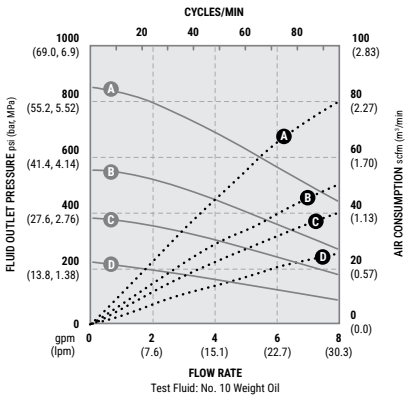
FIRE-BALL 425 OIL PUMP PACKAGES

PUMP PERFORMANCE

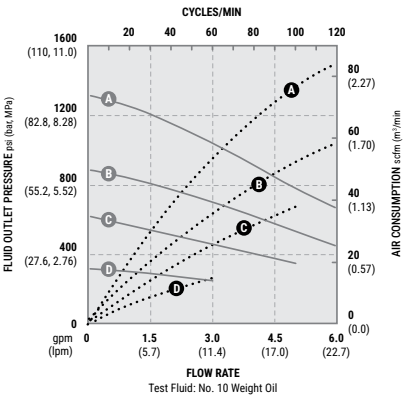
FIRE-BALL 425 3:1 PUMPS



FIRE-BALL 425 6:1 PUMPS



FIRE-BALL 425 10:1 PUMPS



AIR PRESSURE

- (A) = at 150 psi (10.3 bar, 1.03 MPa)
- (B) = at 100 psi (6.9 bar, 0.69 MPa)
- (C) = at 70 psi (4.8 bar, 0.48 MPa)
- (D) = at 40 psi (2.8 bar, 0.28 MPa)

LEGEND

Air Consumption ••••••
Fluid Pressure ——

TECHNICAL SPECIFICATIONS

Fluid Pressure Ratio	3:1	6:1	10:1
Air Motor Effective Diameter	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)		
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 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		
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 OPTIONS

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

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

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

FIRE-BALL 425 OIL PUMP PACKAGES

ORDERING OPTIONS

LUBE TRUCK PACKAGES

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

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

OIL PUMP ACCESSORIES GUIDE

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

OIL PUMP MOUNTING AND ACCESSORY GUIDE

Pump	Fast-Ball 100	Mini Fire-Ball 225 3:1	Fire-Ball 300 5:1	Fire-Ball 425 3:1	Fire-Ball 425 6:1	Fire-Ball 425 10:1
Bung Adapter	222308	222308	222308	–	–	222308
Connection Hose Kit	222118 (18 in / 4537 cm) 222119 (72 in / 182.8 cm)	222062 (18 in / 45.7 cm) 222063 (72 in / 182.8 cm)	222062 (18 in / 45.7 cm) 222063 (72 in / 182.8 cm)	238246 (24 in / 60.9 cm)	238246 (24 in / 60.9 cm)	222068 (18 in / 4537 cm) 222066 (72 in / 182.8 cm)
Wall Mounting Bracket	203987	203987	203987	238245	238245	203987
Thermal Relief Kit*	–	235998	237893	237601	240429	240429
Air Regulator and Gauge	110147	109075	109075	104266 / 100960	104266 / 100961	104266 / 100962
Air Filter	110146	106148	106148	106149	106149	106149
Air Lubricator	110148	214847	214847	214848	214848	214848
Filter, Regulator, Lubricator and Gauge	110149	110150	110150	217072	217072	217072
Airline Shutoff Valve	110223	110224	110224	110225	110225	110225
Fluid Shutoff Valve	108537	108458	108458	108537	108537	108537
Fluid Outlet Filter	240417	240417	240417	101078	–	–
Low-Level Cutoff	203688	203688	203688	203688	203688	203688
Suction Hose Kit	236054	236054	236054	–	–	–

*Required

OIL PUMP ACCESSORIES

ORDERING OPTIONS

BLEED-TYPE AIR SHUT-OFF VALVES

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

BUNG ADAPTERS

Part Number	Description	Compatible Pumps	Includes				
			Double Tap bushing	Bushing Sleeve	1 ft x 3/8 in Hose	90° 3/8 in Adapter	Thumb Screw
222308	Allows direct mounting of all universal length and extended pumps to standard 2 NPT drum bung	Fast-Ball 100 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1	–	–	–	–	–
187754	Acetal bung adapter	All pumps	–	–	–	–	100220
176684	Bung adapter for suction kit 203992	–	–	–	–	–	100220
238125	For mounting universal pumps to tanks	Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1	191075	172405	238370	155494	–

CARTS

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

CLAMPS

Part Number	Description	Compatible Pumps
203156	Used to hold pump securely to the edge of an open top drum	Fast-Ball 100 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 6:1 Fire-Ball 425 10:1

DISPENSE KITS FOR MINI FIRE-BALL AND FIRE-BALL 300 PUMPS

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

ORDERING OPTIONS

DOWNTUBE – UNIVERSAL FIREBALL OIL PUMPS

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

DRUM COVERS

Part Number	Container Size	Compatible Pumps
200326	55 gal (200 l)	Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1
24R350	16 gal (60 l)	Fast-Ball 100 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 100 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1, 15:1
160754	55 gal (200 l) 16 gal (60 l) 5 gal (20 l)	Bung-mounted pumps

DRUM ELEVATOR

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

FLUID SHUT-OFF VALVES

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

FLUID T-STRAINERS

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

OIL PUMP ACCESSORIES

ORDERING OPTIONS

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
129699	3/4 in NPT inlet/outlet strainer, replacement screen
110878	1 in NPT inlet/outlet strainer, which filters material before entering the pump
110907	1 in NPT inlet/outlet strainer replacement screen

HOSE AND FITTING KITS FOR MINI FIRE-BALL 225 AND FIRE-BALL 300 5:1

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

HOSE AND FITTING KITS FOR FIRE-BALL 425 PUMPS

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

ORDERING OPTIONS

LOW-LEVEL CUTOFFS FOR FAST-BALL AND FIRE-BALL PUMPS

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

PORTABLE BASES

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

RUNAWAY VALVE

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

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

SEALED BUNG ADAPTERS

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

SUCTION KITS

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

OIL PUMP ACCESSORIES

ORDERING OPTIONS

SUCTION TUBES

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

THERMAL RELIEF VALVE KITS

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

TOOLS FOR WORKING ON FIRE-BALL AIR MOTORS

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

WALL-MOUNTING BRACKETS

Part Number	Description	Compatible Pumps
203987	Clamps onto universal pump tube	Fast-Ball 100 Mini Fire-Ball 225 3:1 Fire-Ball 300 5:1 Fire-Ball 425 10:1
238245	Mounts directly to pump flange	Fire-Ball 425 3:1, 6:1, 10:1
236778	Provides mounting to wall surface by flange	Fire-Ball 425 3:1

NXT™ HIGH-FLO® PUMPS

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.

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.

Piston Valve with Floating Piston Seal

For maximum pressure balance over a range of material viscosities.

TYPICAL APPLICATIONS

- Fleet service facilities
- In-plant
- Mining

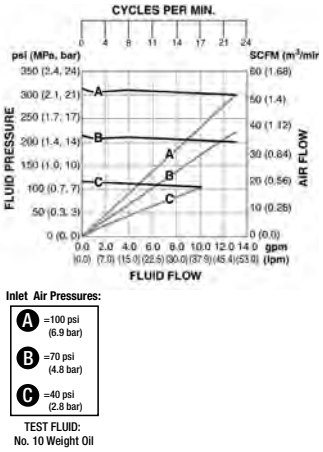
TYPICAL FLUIDS

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

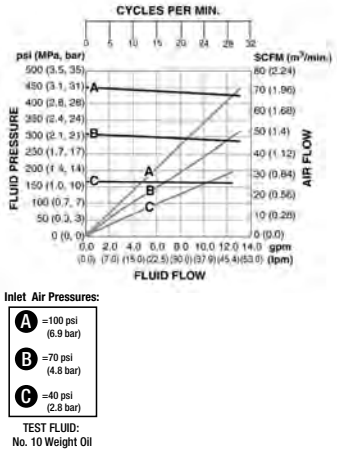
NXT HIGH-FLO PUMPS

PUMP PERFORMANCE

NXT 3.5:1 HIGH-FLO PUMPS



NXT 4.5:1 HIGH-FLO PUMPS



TECHNICAL SPECIFICATIONS

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

ORDERING OPTIONS

OIL PUMP PACKAGES

Package Number	24D602	24D603
Ratio	3.5:1	4.5:1
Mounting	255143 (Wall)	255143 (Wall)
Pump with Thermal Relief Kit	24D596	24D597
Output per Cycle	2,000 cc	1,500 cc
Output at 60 CPM	31.7 gpm (120 lpm)	23.8 gpm (90 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	15B554	15B554
6 ft x 1 in Fluid Hose	115042	115042
Instruction Manual	309351	309351

ACCESSORIES

DATATRAK™ CONVERSION KIT

For converting NXT air motors to include the DataTrak module with runaway protection. Refer to manual 311486 for more details.

Part Number	Description
NXT306	Conversion kit for NXT3400 motors.

NXT™ DURA-FLO® PUMPS

MOVE LARGE AMOUNTS OF OIL FAST

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

Optional DataTrak™ Control

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

NXT Air Motor

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

Modular Air Valves

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

Integrated Air Controls

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

Piston Valve with Floating Piston Seal

For maximum pressure balance over a range of material viscosities.

TYPICAL APPLICATIONS

- Fleet service facilities
- In-plant
- Mining

TYPICAL FLUIDS

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

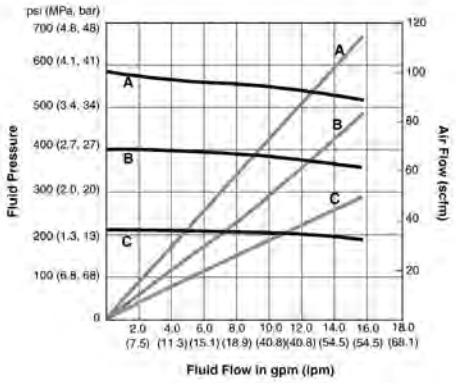
PUMP PERFORMANCE

Inlet Pressures:

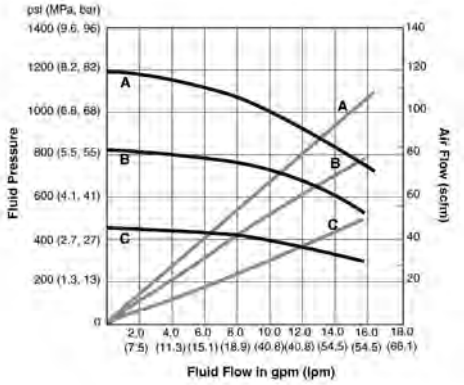
- **A** = 100 psi (6.9 bar) air pressure or 1500 (103 bar) hydraulic oil pressure
- **B** = 70 psi (4.8 bar) air pressure or 1050 (72 bar) hydraulic oil pressure
- **C** = 40 psi (2.8 bar) air pressure or 600 (41 bar) hydraulic oil pressure

TEST FLUID: No. 10 Weight Oil

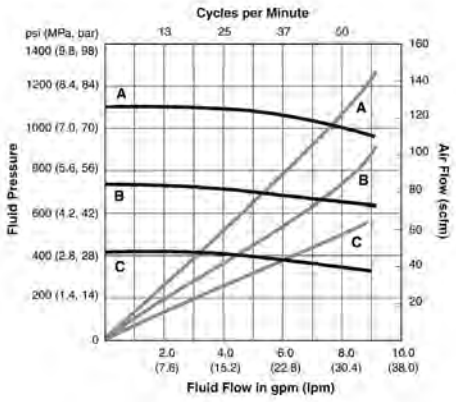
NXT DURA-FLO 6:1 PUMPS



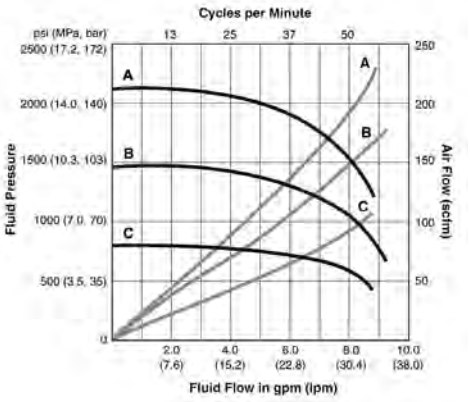
NXT DURA-FLO 10:1 PUMPS



NXT DURA-FLO 12:1 PUMPS



NXT DURA-FLO 23:1 PUMPS



NXT™ DURA-FLO® PUMPS

TECHNICAL SPECIFICATIONS

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

ORDERING OPTIONS

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)
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	15B554	15B554	15B554	15B554
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	15B554	15B554	15B554
6 ft x 1 in Fluid Hose	115042	115042	115042
Instruction Manual	312862	312862	312862

DYNA-STAR® HYDRAULIC PUMPS

FIELD-PROVEN, ENERGY-EFFICIENT

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

Built-In Reliability

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

Quiet Hydraulic Motor

No need for add-on mufflers.

High-Efficiency Motor

Uses less hydraulic oil.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

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

TECHNICAL SPECIFICATIONS

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

ORDERING OPTIONS

DYNA-STAR HYDRAULIC PUMPS

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

ACCESSORIES

DRUM COVERS

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

HYDRAULIC FLUID CONTROLS

Required for each pump.

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

WALL-MOUNTING BRACKETS

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

POWER-STAR™ HYDRAULIC PUMPS

FIELD-PROVEN, ENERGY-EFFICIENT

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

Built-In Reliability

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

Quiet Hydraulic Motor

No need for add-on mufflers.

High-Efficiency Motor

Uses less hydraulic oil.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

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

TECHNICAL SPECIFICATIONS

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

ORDERING OPTIONS

POWER-STAR HYDRAULIC PUMPS

Part Number	Description
236754	1:1 Universal oil pump

ACCESSORIES

DRUM COVERS

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

HYDRAULIC FLUID CONTROLS

Required for each pump.

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

WALL-MOUNTING BRACKET

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

MANUALLY OPERATED PUMPS

ORDERING OPTIONS

16 GALLON (60 L) METERED AND NON-METERED DISPENSING PACKAGES

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

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

*Hydraulic; can be used for gear oil dispensing.

ORDERING OPTIONS

PAIL-DISPENSING PACKAGE FOR 5 GAL (20 L) PAILS

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

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

PUMPING BULK LUBRICANTS FROM 16 GAL (60 L) OR 55 GAL (200 L) DRUMS*

All pumps come with suction tube and bung adapter.

Package Number	114829	226290
Type of Pump	Lever[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

OIL DISPENSE METERS

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GRACO®

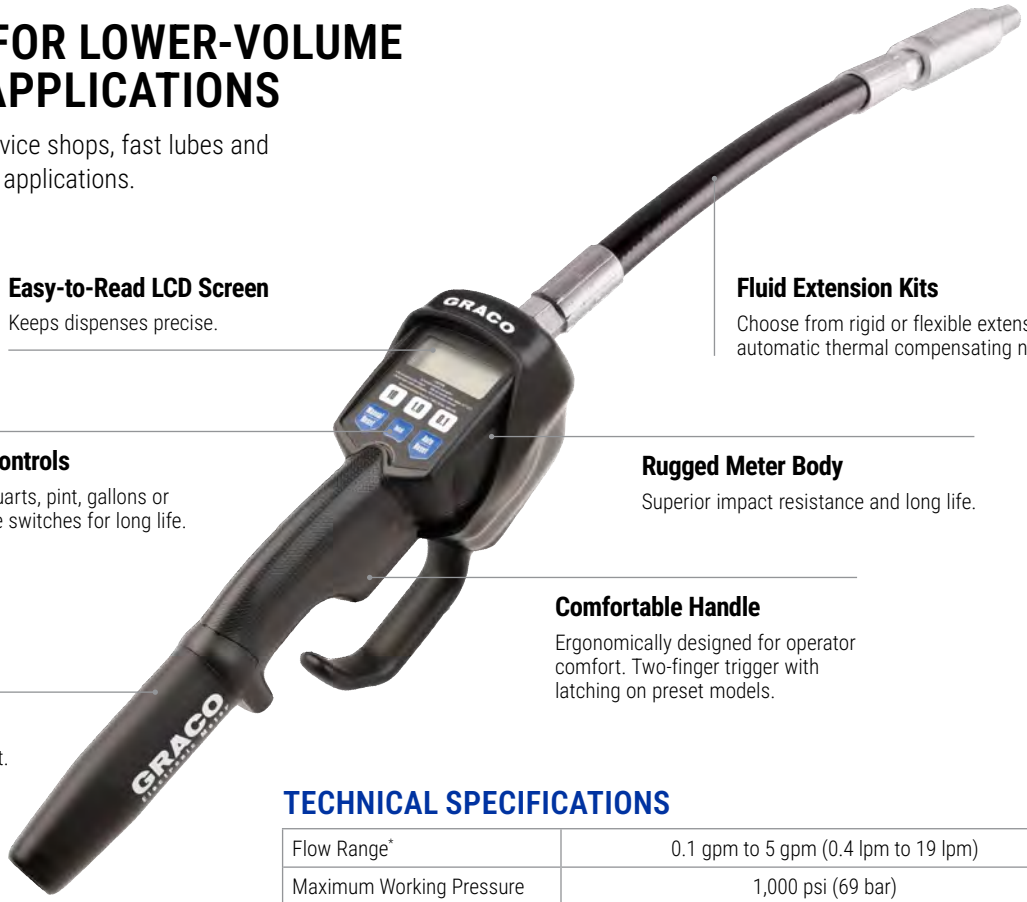
DISPENSE METERS

	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)	91-93
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)	94-96
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)	97-99
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)	100-102
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)	103
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	104
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)	105
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	106-108
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	109-110
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	111-112

LDP5 ELECTRONIC PRESET METERS

PERFECT FOR LOWER-VOLUME SERVICE APPLICATIONS

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



Easy-to-Read LCD Screen
Keeps dispenses precise.

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

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

Rugged Meter Body
Superior impact resistance and long life.

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

Fluid Swivel
1/2 inch fluid inlet.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

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

TECHNICAL SPECIFICATIONS

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

*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.

LDP5 ELECTRONIC PRESET METERS

ORDERING OPTIONS

LDP5 ELECTRONIC PRESET METERS

Automatic nozzle included

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

NOZZLE EXTENSION KITS

	Extension	Fluid	Nozzle Description	Part Number
	Rigid	Oil/Antifreeze	Automatic, thermally compensating	239949
		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
		Oil/Antifreeze/Gear lube	Automatic	238371

ORDERING OPTIONS

EM5/PM5 TO LD SERIES UPGRADE KITS

	Part Number	Description
	257350	EM5 to LDM5
	257351	PM5 to LDP5

ACCESSORIES

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

PROTECTIVE BOOTS WITH TRIGGER GUARDS

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

SWIVEL COVERS

	Part Number	Description
	191294	Black
	191287	Red
	191288	Blue
	191295	Yellow

EM® SERIES ELECTRONIC MANUAL DISPENSE METERS

LOW-FLOW AND HIGH-FLOW MANUAL METERS

Building on the heritage of Graco's first electronic meter, the EM Series features a robust design at an affordable price. Our legacy valve handle features a long-life valve design for years of dependable service. These meters are weather-rated and impact-resistant to withstand the harshest shop conditions.

Twist-Close Nozzle Prevents Leaking
Multiple extensions available including rigid, flexible and gear lube.

Proven in Harsh Conditions
Sealed electronics (IP69K) are protected against direct pressure washing and dust.

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.

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

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

TECHNICAL SPECIFICATIONS

	EM8	EM20
Flow Range	0.25 to 8 gpm (0.95 to 30.3 lpm)	0.25 to 20 gpm (0.95 to 75.7 lpm)
Maximum Operating Pressure	1,500 psi (102 bar)	
Unit of Measure	Quarts, gallons, 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 per DIN 40050-9	
Battery	2 (AAA) alkaline or 2 (AAA) lithium	
Wetted Parts	Aluminum, stainless steel, carbon steel, acetal, nitrile rubber, Geolast™	
Meter Pressure Loss*	30 psi @ 6 gpm	85 psi @ 12 gpm
Dimensions (L x W x H)	13 in x 3.5 in x 5.25 in (33 cm x 9 cm x 13.3 cm)	
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.

ORDERING OPTIONS

		Extension	Inlet in (mm)	Nozzle Type	Part Number
EM8		Flexible	1/2 (13)	Non-drip, manual open/close	25C904
				Automatic, non-drip, quick-close	26C526
		Rigid		Non-drip, manual open/close	25C903
				Automatic, non-drip, quick-close	26C525
		Gear		Non-drip, quick-close	25C905
EM20		Flexible	1/2 (13)	High-flow, non-drip, quick-close	25C915
			3/4 (19)		25C918
		Rigid	1/2 (13)	High-flow, non-drip, quick-close	25C916
			3/4 (19)		25C919

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

EM® SERIES ELECTRONIC MANUAL DISPENSE METERS

ORDERING OPTIONS

NOZZLE AND EXTENSION KITS

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
	Rigid	Oil	Non-drip, manual open/close	26C267	EM8
			Automatic, non-drip, quick-close	255852	EM8
			Non-drip, quick-close	255921	EM20
	Rigid	Gear lube	Non-drip, quick-close	255854	EM8
	Flexible	Oil	Non-drip, manual open/close	26C268	EM8
			Automatic, non-drip, quick-close	255853	EM8
			Non-drip, quick-close	255859	EM20
	Nozzle Only	Oil/Antifreeze	Non-drip, manual open/close	17T207	EM8
	Nozzle Only	Oil/Antifreeze	Non-drip, quick-close	255793	EM20
	Nozzle Only	Gear lube	Non-drip, quick-close	255470	EM8
	Flexible	Oil/Antifreeze	Extension only, 2 ft length	131733	EM8

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

PM™ SERIES ELECTRONIC PRESET DISPENSE METERS

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.

Twist-Close Nozzle Prevents Leaking
Multiple extensions available including rigid, flexible and gear lube.

Long-Life Valve Design
Poppet design offers exceptional valve life for heavy-usage applications.

Long Battery Life
Features four easily-replaceable AA batteries.

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

High Flow Rates
Capable of up to 20 gpm (75.7 lpm).

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

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

TECHNICAL SPECIFICATIONS

	PM8	PM20
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 thread 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 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 (L x W x H)	14.25 in x 4.1 in x 7.2 in (36.2 cm x 10.4 cm x 18.3 cm)	
Weight	5.2 lbs (2.4 kg)	
Warranty	Five years overall, three years 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 OPTIONS

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

ORDERING OPTIONS

NOZZLE AND EXTENSION KITS

	Extension	Fluid	Nozzle Description	Part Number	Compatible Meters
	Rigid	Oil	Non-drip, manual open/close	26C267	PM8
			Automatic, non-drip, quick-close	255852	PM8
			Non-drip, quick-close	255857	PM20
	Rigid	Gear lube	Non-drip, quick-close	255854	PM8
	Flexible	Oil	Non-drip, manual open/close	26C268	PM8
			Automatic, non-drip, quick-close	255853	PM8
			Non-drip, quick-close	255858	PM20
	Nozzle Only	Oil/Antifreeze	Non-drip, manual open/close	17T207	PM8
	Nozzle Only	Oil/Antifreeze	Non-drip, quick-close	255461	PM20
	Nozzle Only	Gear lube	Non-drip, quick-close	255470	PM8
	Flexible	Oil/Antifreeze	Extension only, 2 ft length	131733	PM8

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

SD SERIES™ ELECTRONIC METERS

PREMIUM QUALITY AND PERFORMANCE WITH ERGONOMIC DESIGN

Graco's premium SD meters were designed from the ground up to provide the best user experience. These robust meters feature high flow, improved ergonomics and a large high-contrast LCD screen to make viewing dispense amounts easy in all lighting conditions.

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

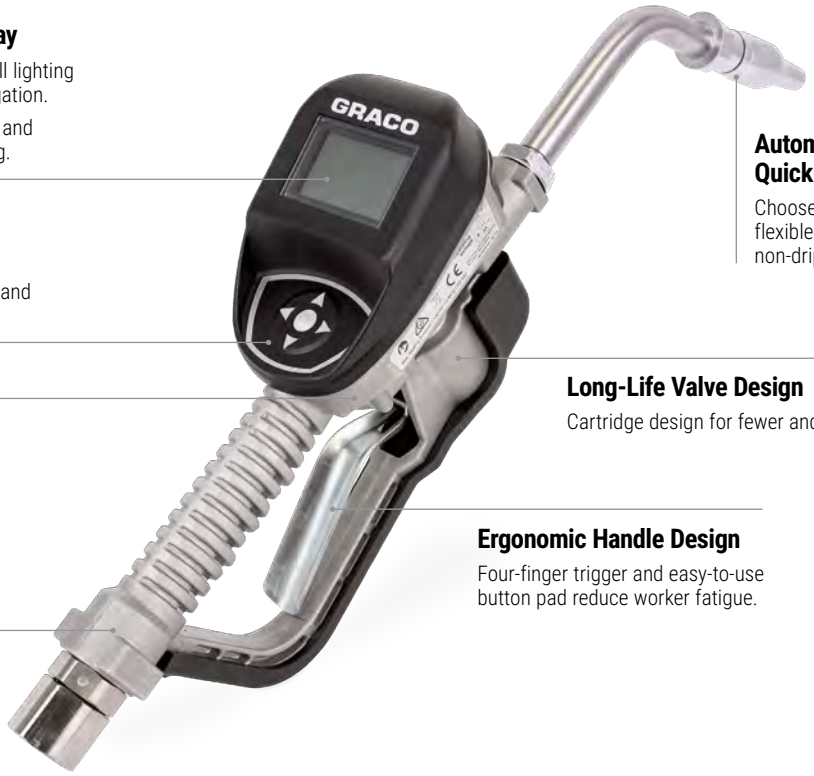
- Manual or preset options.
- Preset is compatible with Pulse™ FC and upgradeable to Pulse™ Pro.

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

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

TECHNICAL 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) – L x W x H	13 in x 3.75 in x 5.75 in (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 OPTIONS

SD ELECTRONIC METERS

26C384

25M406

	Dispense Type	Flow Range gpm (lpm)	Fluid	Extension	Inlet in (NPT)	Part Number
SDP8	Preset (Pulse FC-enabled)	0.25–8 (1–30)	Oil	Rigid	1/2	26C384
				Flexible	1/2	26C354
			Antifreeze	Rigid	1/2	26C385
				Flexible	1/2	26C355
			Gear lube	Rigid	1/2	26C358
SDP18	Preset (Pulse FC-enabled)	0.25–18 (1–68)	Oil	Flexible	1/2	26C357
				Flexible	3/4	26C361
				Rigid	3/4	26C360
				Rigid	1/2	26C356
SDM8	Manual	0.25–8 (1–30)	Oil	Flexible	1/2	25M406
				Rigid	1/2	25M404
			Antifreeze	Flexible	1/2	25M407
				Rigid	1/2	25M405
			Gear Lube	Rigid	1/2	25M413
			Windshield Wash	Rigid	1/2	25M415
SDM18	Manual	0.25–18 (1–68)	Oil	Flexible	3/4	25M417
				Rigid	3/4	25M416
				Flexible	1/2	25M411
				Rigid	1/2	25M410

NOZZLE AND EXTENSION KITS

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

SD SERIES™ ELECTRONIC METERS

ORDERING OPTIONS

FILTER KITS FOR SD SERIES METERS

	Part Number	Description
	255885	Kit includes filters/ strainers, spacers and O-rings

SWIVEL COVERS

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

IMPACT PROTECTION

	Part Number	Description
	131226	Pulse/SD meter boot

IM20® ELECTRONIC IN-LINE METER

HIGH-FLOW IN-LINE METER

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

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

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

TECHNICAL SPECIFICATIONS

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

ORDERING OPTIONS

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

IM20P® IN-LINE METERS

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.

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

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

ORDERING OPTIONS

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

TECHNICAL SPECIFICATIONS

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 (L x W x H)	5.8 in x 3.4 in x 2.9 in (14.7 cm x 8.6 cm x 7.4 cm)
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.

SDI15 IN-LINE ELECTRONIC METER

Energy Efficient
Powered by two AA alkaline batteries.

Tracks Totals in Two Modes
Reset total for a periodic dispense history and non-reset total for the meter's total dispense history.

Rugged Stainless Steel Body
Remains corrosion free in hard environments for years of trouble-free service.

Large, Easy-to-Read LCD
Simple operator controls and measures in pints, quarts, liters or gallons.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

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

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)
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 OPTIONS

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)

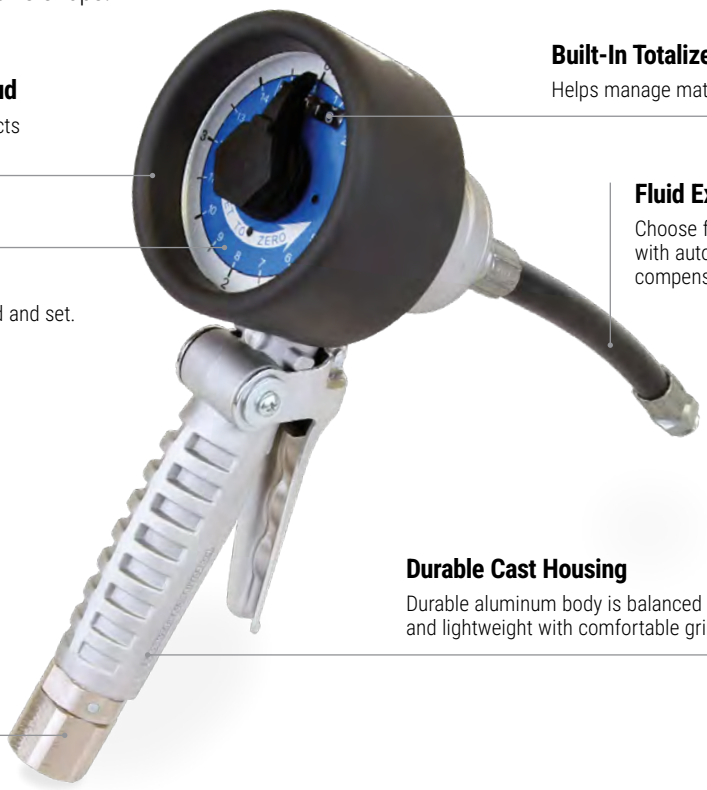
ACCESSORIES

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

MECHANICAL METERS

ACCURATE DISPENSING FOR A WIDE VARIETY OF VEHICLE OR MACHINE SERVICE APPLICATIONS

Ideal for indoor or outdoor use in all size shops.



Impact-Resistant Shroud
Resists scratches and protects knob and dial from damage.

Built-In Totalizer
Helps manage material usage.

Fluid Extension Kits
Choose from rigid or flexible with automatic thermal compensating nozzle.

Simple, Easy Design
Dial and face design is easy to read and set.

Durable Cast Housing
Durable aluminum body is balanced and lightweight with comfortable grip.

Fluid Swivel
1/2 inch fluid inlet.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

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

TECHNICAL SPECIFICATIONS

Flow Range*	0.28 gpm (1.0 lpm) to 8 gpm (30.2 lpm)
Maximum Working Pressure	1,500 psi (103 bar)
Units of Measure	Quarts, gallons, liters
Accuracy	± 1%
Inlet	1/2 in NPT
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 (L x W x H)	11.5 in x 5 in x 6.3 in (29.2 cm x 12.7 cm x 16 cm)
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.

ORDERING OPTIONS

MANUAL METERS

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

MANUAL METER PACKAGES

	Extension	Model Description	Part Number	Replacement Nozzle/Extension Kit
	Flexible	4/16 Liter	24V043	26C268
		4/16 Quart	24V034	26C268
	Rigid	4/16 Liter	24V046	26C267
		4/16 Quart	24V037	26C267
	Gear Lube	4/16 Liter	24V049	255854
		4/16 Quart	24V040	255854

PRESET METERS

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

MECHANICAL METERS

ORDERING OPTIONS

PRESET METER PACKAGES

	Extension	Model Description	Part Number	Package Includes Nozzle Extension
	Flexible	60 Gallon	24Z129	255853
		60 Liter	24Z132	255853
		60 Quart	24Z126	255853
	Rigid	60 Gallon	24Z128	255852
		60 Liter	24Z131	255852
		60 Quart	24Z125	255852
	Short Rigid	60 Gallon	24V055	24W641
		60 Liter	24V058	24W641
		60 Quart	24V052	24W641
	Gear Lube	60 Gallon	24Z130	255854
		60 Liter	24Z133	255854
		60 Quart	24Z127	255854

NOZZLE EXTENSIONS

	Fluid	Extension	Compatible Meter	Part Number
	Oil	Flexible	Manual	255853
		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
	Gear lube	Rigid	Manual	255854

ACCESSORIES

	Part Number	Description
	256164	Strainer filter kit, 10-pack

SDV15 CONTROL VALVE

FOR STANDARD AND HEAVIER-DUTY APPLICATIONS

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

Fluid Extension Kits
Choose from rigid or flexible extensions.

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

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

TECHNICAL 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 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, tpe
Dimensions (L x W x H)	12 in x 8.4 in x 2.4 in (30.5 cm x 21.3 cm x 6.1 cm)
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.

SDV15 CONTROL VALVE

ORDERING OPTIONS

SDV15 CONTROL VALVE

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

SDV15 BARE CONTROL VALVE

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

HIGH FLOW NOZZLES WITH EXTENSION

	Extension	Part Number
	Rigid	255857
	Flexible	255858

FILTER KIT

	Description	Part Number
	Strainer filter kit	256164

QUICK CLOSE NOZZLE

Extension sold separately.

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

XDV20 CONTROL VALVE

FOR STANDARD AND HEAVIER-DUTY APPLICATIONS

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

Fluid Extension Kits

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

Lock-On/Lock-Off Trigger

For hands-free operation.

Sturdy Cast Body

Designed for use in tough environments.

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

Meets standard and high flow requirements.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

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

TECHNICAL SPECIFICATIONS

Flow Range*	Up to 20 gpm (75.7 lpm)
Maximum Working Pressure	1,500 psi (103 bar)
Inlet	1/2 in or 3/4 in NPT
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 (L x W x H)	12 in x 8.4 in x 2.4 in (30.5 cm x 21.3 cm x 6.1 cm)
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

ORDERING OPTIONS

XDV20 CONTROL VALVE

Includes high flow, quick-close nozzle.

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

XDV20 BARE CONTROL VALVE

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

ACCESSORIES

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

METER DISPENSE CONSOLES

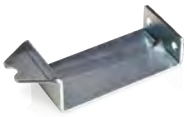
ORDERING OPTIONS

LUBRICANT DISPENSE CONSOLES

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

	Part Number	Description	Package Includes	
			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
	110285	Pistol-grip dispense valve bracket
	196471	Dispense valve bracket for LDP5, EM8 and EM20 meters
	249440	Dispense valve bracket for SD/Matrix meters

DISPENSE CONSOLES

ORDERING OPTIONS

OIL DISPENSE BAR

	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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GRACO

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)	118-124
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)	125-128 143-146
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)	129-131 143-146
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)	129-140 132-136 143-146
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)	137-138 144-146
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)	137-139 141-147
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)	136-138 140-147
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)	148-149

Pump Family and Fluid Pressure Ratio	Typical Applications	Annual Usage	Air Inlet	Fluid Outlet	Air Operation Range	Reference Page
Check-Mate 14:1	• Fleet service facilities • In-plant large runs • Large volume lubricant transfer • Mining remote fill	> 20,000 lbs (9,072 kg)	3/4 in NPT(F)	1-1/2 in NPT(M)	0-100 psi (0-7 bar)	150-151 153-154
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)	150-151 154
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)	150-151 154
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)	150 152-154
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)	150 152-154
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)	150 152-154

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)	155-156
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)	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 lower-volume (up to 7,000 lb/year) applications. LD pumps are fine-tuned for a compact, flexible and durable solution.

Three-Inch Air Motor

Provides more power to create better flow.

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.

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.

TYPICAL APPLICATIONS

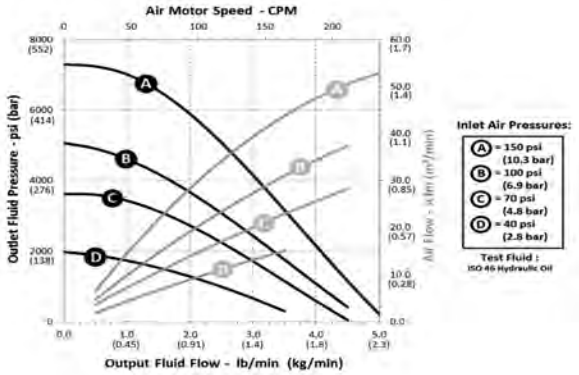
- Automotive dealerships
- Fast lube centers
- Service shops
- Lube trucks

TYPICAL FLUIDS

- Grease up to NLGI #2

PUMP PERFORMANCE

LD SERIES 50:1 PUMPS



TECHNICAL 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)
Approximate Weight	35 lb drum – 11.2 lb (5.1 kg) 120 lb drum – 15.0 lb (6.8 kg) 400 lb drum – 17.0 lb (7.7 kg)
Instruction Manual	3A1334

ORDERING OPTIONS

LD SERIES 50:1 PUMPS

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

LD SERIES 50:1 GREASE PUMP PACKAGES

ORDERING OPTIONS

35 LB GREASE PACKAGES

Package Number	24J030	26C169	25C549
Ratio	50:1	50:1	50:1
Type of Package	Stationary	Stationary	Mobile
Container Size	35 lb (16 kg)	35 lb (16 kg)	35 lb (16 kg)
Pump Part Number	24G600	24G600	24G600
Hose Kit	24H862	–	24H862
Hose Sizes	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)	Grease – Whip 1/8 in x 1/8 in x 30 in (0.8 m) Grease 1/4 in x 3/8 in x 20 ft (6.1 m)	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)
Follower Plate	24F901	24F901	24F901
Drum Cover	24F904	24F904	24F904
Grease Valve	129581	129581	129581
Z-Swivel	129591	129591	129591
Fitting(s)	–	157705	–
Air Regulator	–	24H420	–
Air Filter	–	106148	–
Portable Base	–	–	131183
Instruction Manual	3A1335	3A1335	3A1335

ORDERING OPTIONS

120 LB GREASE PACKAGES

Package Number	24J036	26C170	25C548	24J048	24J060	25N618
Ratio	50:1	50:1	50:1	50:1	50:1	50:1
Type of Package	Stationary	Stationary	Mobile	Mobile	Mobile	Mobile
Container Size	120 lb (54 kg)	120 lb (54 kg)	120 lb (54 kg)	120 lb (54 kg)	120 lb (54 kg)	120 lb (54 kg)
Pump Part Number	24G603	24G603	24G603	24G603	24G603	24G603
Hose Kit	24H862	–	24H862	24H862	24J501	–
Hose Sizes	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)	Grease – Whip 1/8 in x 1/8 in x 30 in (0.8 m) Grease 1/4 in x 3/8 in x 20 ft (6.1 m)	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)	Grease 1/4 in ID x 12 ft (3.7 m)
Follower Plate	24F902	24F902	24F902	24F902	24F902	24F902
Drum Cover	24F905	24F905	24F905	24F905	24F905	24F905
Grease Valve	129581	129581	129581	129581	129581	129581
Z-Swivel	129591	129591	129591	129591	129591	129591
Fitting(s)	–	157705	–	–	–	165198 / 169970
Air Regulator	–	24H420	–	–	–	24H420
Air Filter	–	106148	–	–	–	–
Portable Base	–	–	131184	24H422	24H422	131184
Hose Reel	–	–	–	–	LD	–
Hose Size	–	–	–	–	1/4 in x 35 ft	–
Hose Reel Part Number	–	–	–	–	HEH006	–
Instruction Manual	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335

LD SERIES 50:1 GREASE PUMP PACKAGES

ORDERING OPTIONS

400 LB GREASE PACKAGES

Package Number	24J042	26C171	24J054	24J066
Ratio	50:1	50:1	50:1	50:1
Type of Package	Stationary	Stationary	Mobile	Mobile
Container Size	400 lb (180 kg)	400 lb (180 kg)	400 lb (180 kg)	400 lb (180 kg)
Pump Part Number	24G606	24G606	24G606	24G606
Hose Kit	24H862	–	24H862	24J501
Hose Sizes	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)	Grease – Whip 1/8 in x 1/8 in x 30 in (0.8 m) Grease 1/4 in x 3/8 in x 20 ft (6.1 m)	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)	Grease 1/4 in ID x 6 ft (1.8 m) Air/Water 3/8 in ID x 6 ft (1.8 m)
Follower Plate	24F903	24F903	24F903	24F903
Drum Cover	24F906	24F906	24F906	24F906
Grease Valve	129581	129581	129581	129581
Z-Swivel	129591	129591	129591	129591
Fitting(s)	–	157705	–	–
Air Regulator	–	24H420	–	–
Air Filter	–	106148	–	–
Type of Reel	–	–	–	LDX
Reel Size	–	–	–	3/8 in x 50 ft
Reel Part Number	–	–	–	HEH006
Portable Base	–	–	24F915	24F915
Instruction Manual	3A1335	3A1335	3A1335	3A1335

LD SERIES 50:1 GREASE PUMP ACCESSORIES

LD PRO-SHOT™ NON-METERED GREASE VALVES

- Rugged design for harsh environments
- Pressure-assisted trigger for ease of operation
- Easy adjustment with top locking nut
- 6 in steel extension with heavy-duty coupler

TECHNICAL SPECIFICATIONS

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

ORDERING OPTIONS

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 OPTIONS

Part Number	Description
129591	Z-swivel, 1/4 in NPT

LD SERIES 50:1 GREASE PUMP ACCESSORIES

ORDERING OPTIONS

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
133215	Mini air filter-regulator with gauge, 1/4 in NPT, self-relieving, semi-auto drain

CARTS

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

DRUM COVERS

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

LD DRUM DOLLIES

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

FOLLOWER PLATES

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

HOSE AND FITTING KITS

Part Number	Description	Includes				
		Grease Hose	Grease Hose Size	Air Hose	Air Hose Size	Fitting
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
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

MINI FIRE-BALL® 225 GREASE PUMPS

PERFECT FOR MEDIUM PRESSURE, LOW VOLUME APPLICATIONS

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

Durable Casting

Thick cast 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

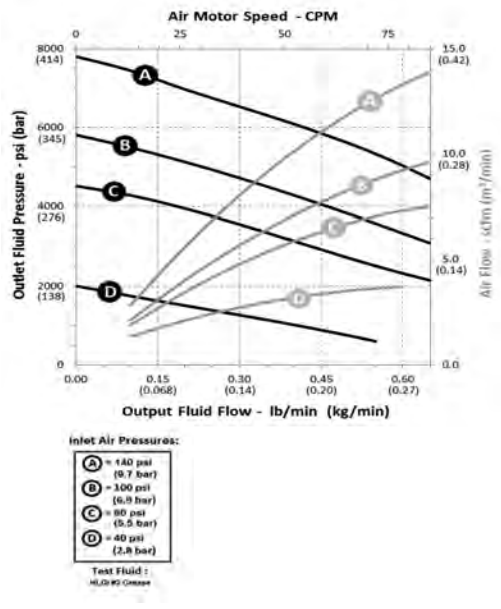
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

TYPICAL FLUIDS

- Grease up to NLGI #2

PUMP PERFORMANCE

MINI FIRE-BALL 225 PUMPS



MINI FIRE-BALL® 225 GREASE PUMPS

TECHNICAL 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 OPTIONS

MINI FIRE-BALL 50:1 PUMPS

Part Number	Description
246909	For 35 lb (16 kg) pail
246780	For 120 lb (55 kg) drum
246781	For 400 lb (180 kg) drum

MINI FIRE-BALL® 225 GREASE PUMP PACKAGES

ORDERING OPTIONS

35 LB AND 50 LB GREASE PACKAGES

Package Number		246910*	246911*	246913*
Ratio		50:1	50:1	50:1
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
Pump 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
Dispense Kit Includes	12 ft Hose	109151	109151	109151
	Air Coupler	114558	114558	114558
	Air Fitting	169971	169971	169971
	Z-Swivel	202577	202577	202577
	Pro-Shot Valve	242056	242056	242056
Follower Plate		24F901	**	**
Drum Cover		222059	24R350	24R350
Portable Base		–	–	203650
Instruction Manual		309967	309967	309967

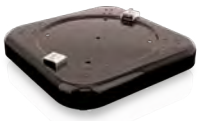
*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.
**Order follower plate (220653) separately for 35 lb (16 kg) pails or (220654) for 70 lb (32 kg) bulk.

246911

MINI FIRE-BALL® 225 GREASE PUMP PACKAGES

ORDERING OPTIONS

120 LB AND 400 LB GREASE PACKAGES

					
Package Number	246914*	246915*	246916*	246917*	
Ratio	50:1	50:1	50:1	50:1	
Type of Package	Stationary supply package	Portable package with caster base	Portable package with 2-wheel cart	Stationary supply package	
Container Size	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	400 lb (180 kg)	
Pump Part Number	246780	246780	246780	246781	
Fluid Hose Size	1/4 in x 6 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 6 ft	
Dispense Hose Kit	222072	236058	236058	222072	
Dispense Kit Includes	12 ft Hose	–	109151	109151	–
	6 ft Hose	109150	–	–	109150
	6 ft Coupled Hose	203320	–	–	203320
	Air Coupler	–	114558	114558	–
	Air Fitting	–	169971	169971	–
	Z-Swivel	–	202577	202577	–
	90º Fitting(s)	155494 / 155541	–	–	155494 / 155541
	Pro-Shot Valve	–	242056	242056	–
Follower Plate		24F902	24F902	24F902	24F903
Drum Cover		24R350	24R350	24R350	200326
Portable Base		–	203622	203650	–
Instruction Manual		309967	309967	309967	309967

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

FIRE-BALL® 300 GREASE PUMPS

IDEAL FOR SHOPS WITH GREASE TRANSFER

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

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

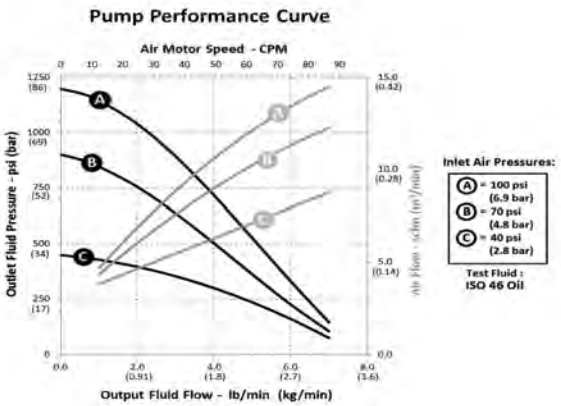
TYPICAL FLUIDS

- Grease up to NLGI #2

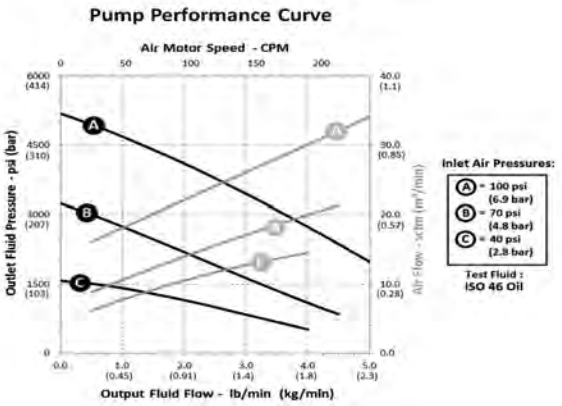
FIRE-BALL® 300 GREASE PUMPS

PUMP PERFORMANCE

FIRE-BALL 300 15:1 PUMPS



FIRE-BALL 300 50:1 PUMPS



TECHNICAL SPECIFICATIONS

	Fire-Ball 300 15:1	Fire-Ball 300 50:1
Fluid Pressure Ratio	15:1	50:1
Air Motor Effective Diameter	3 in (76.2 mm)	3 in (76.2 mm)
Annual Usage	Up to 10,000 lb (4,535 kg)	Up to 10,000 lb (4,535 kg)
Maximum Fluid Working Pressure	2,700 psi (186 bar / 18.6 MPa)	8,400 psi (579 bar / 57.9 MPa)
Approximate Free Flow Rate @ 100 psi	7.5 lb/min (3.4 kg/min)	7.5 lb/min (3.4 kg/min)
Output per Cycle	1.29 oz (36.6 g)	0.34 oz (9.5 g)
Continuous Duty Flow Rate	0.7 lb/min (0.32 kg/min)	1.19 lb/min (0.54 kg/min)
Approximate Air Use and Flow @ 100 psi (80 cpm)	14 @ 6.5 lb/min (0.40 @ 2.9 kg/min)	21 @ 1.7 lb/min (0.59 @ 0.77 kg/min)
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 OPTIONS

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

FIRE-BALL® 300 GREASE PUMP PACKAGES

ORDERING OPTIONS

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)
Pump Part Number		206405	206699	206700
Dispense Kit		222080	222081	222081
Dispense Kit Includes	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
	Air Fitting	–	169971	169971
	Closed Nipple	156849	156849	156849
	Z-Swivel	202577	202577	202577
	Fitting(s)	169971	–	–
	Dispenser	Pro-Shot	Pro-Shot	Pro-Shot
	Dispenser Part Number	242056	242056	242056
	Air Regulator	110234	110234	110234
	Air Pressure Gauge	100960	100960	100960
Drum Cover		222058	204574	200326
Instruction Manual		307882	307882	307882

FIRE-BALL® 300 GREASE PUMP PACKAGES

ORDERING OPTIONS

50:1 25 TO 50 LB GREASE PUMP PACKAGES

Package Number		222069*	245694*	225827*	225773*	245695*	226012*
Type of Package		Portable pail dispenser	Portable pail dispenser	Stationary pail dispenser	Cart-mounted pail dispenser	Cart-mounted pail dispenser	Cart-mounted pail topper
Ratio		50:1	50:1	50:1	50:1	50:1	50:1
Container Size		25 lb to 35 lb (11 kb to 16 kg)	25 lb to 35 lb (11 kb to 16 kg)	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)	35 lb (16 kg)
Pump Part Number		239877	239877	239877	239877	239877	239877
Dispense Kit		222070	245697	222070	222070	245697	222070
Dispense Kit Includes	Fluid Hose	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft
	Hose Part Number	109151	109151	109151	109151	109151	109151
	Air Coupler	114558	114558	114558	114558	114558	114558
	Air Fitting	169971	169971	169971	169971	169971	169971
	Z-Swivel	202577	202577	202577	202577	202577	202577
	Dispenser	Pro-Shot	Accu-Shot	Pro-Shot	Pro-Shot	Accu-Shot	Pro-Shot
	Dispenser Part Number	242056	233807	242056	242056	233807	242056
Follower Plate		24F901	220653	**	**	**	–
Drum Cover		222059	222059	24R350	24R350	204574	–
Holster		–	–	203976	203976	203976	203976
Container		–	–	204134	204134	204134	–
Portable Base		–	–	–	203650	203650	203650
Elevator		–	–	–	–	–	203664
Inductor Plate		–	–	–	–	–	204351
Instruction Manual		307878	307878	307878	307878	307878	307878

*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.
**Order follower plate 220654 separately, if needed.

ORDERING OPTIONS

50:1 120 LB GREASE PUMP PACKAGES

Package Number		225006*	225026*	26C185*	26C186*	245696*	222245*
Type of Package		Portable with caster base	Portable with 2-wheel cart	Portable with caster base	Portable with 2-wheel cart	Portable with 2-wheel cart	Portable with heavy duty cart
Ratio		50:1	50:1	50:1	50:1	50:1	50:1
Container Size		120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)
Pump Part Number		239887	239887	239887	239887	239887	239887
Dispense Kits		222070	222070	26C183	26C183	245697	222383
Dispense Kit Includes	Fluid Hose	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 12 ft	1/4 in x 25 ft
	Hose Part Number	109151	109151	109151	109151	109151	109154
	6 ft Coupled Hose	–	–	–	–	–	–
	Air Coupler	114558	114558	114558	114558	114558	114558
	Air Fitting	169971	169971	169971	169971	169971	169971
	Z-swivel	202577	202577	202577	202577	202577	202577
	Fitting(s)	–	–	–	–	–	–
	Dispenser	Pro-Shot	Pro-Shot	Pro-Shot	Pro-Shot	Accu-Shot	Pro-Shot
	Dispenser Part Number	242056	242056	26C184	26C184	233807	242056
Fluid Hose Size		See kit above	See kit above	See kit above	See kit above	See kit above	See kit above
Air Hose Size		–	–	–	–	–	–
Meter		See kit above	See kit above	See kit above	See kit above	See kit above	See kit above
Meter Part Number		See kit above	See kit above	See kit above	See kit above	See kit above	See kit above
Follower Plate		24F902	24F902	24F902	24F902	220654	24F902
Drum Cover		24R350	24R350	24R350	24R350	204574	222060
Holster		203976	203976	203976	203976	203976	–
Portable Base		203622	203650	203622	203650	203650	222243
Elevator		–	–	–	–	–	–
Pump Support		–	–	–	–	–	–
Hold Down Kit		–	–	–	–	–	222061
Instruction Manual		307878	307878	307878	307878	307878	307878

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

FIRE-BALL® 300 GREASE PUMP PACKAGES

ORDERING OPTIONS

50:1 120 LB GREASE PUMP PACKAGES (CONT.)

Package Number		225014*	222073*
Type of Package		Stationary supply	Stationary supply topper-inductor
Ratio		50:1	50:1
Container Size		120 lb (55 kg)	120 lb (55 kg)
Pump Part Number		239887	239887
Dispense Kits		222072	–
Dispense Kit Includes	Fluid Hose	1/4 in x 6 ft	–
	Hose Part Number	109150	–
	6 ft Coupled Hose	203320	–
	Air Coupler	–	–
	Air Fitting	–	–
	Z-swivel	–	–
	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		–	–
Instruction 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)
Pump Part Number		239888	239888
Hose and Fitting Kits		222072	204467
Dispense Kit Includes	Fluid Hose	1/4 in x 6 ft	1/4 in x 6 ft
	Hose Part Number	109150	109150
	6 ft Coupled Hose	203320	–
	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
Instruction Manual		307880	306556

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

ORDERING OPTIONS

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)
Pump Part Number		239887	239888
Dispense Kits		222072	222072
Dispense Kit Includes	Fluid Hose	1/4 in x 6 ft	1/4 in x 6 ft
	Hose Part Number	109150	109150
	6 ft Coupled Hose	203320	203320
	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
Instruction Manual		307880	307880

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

FIRE-BALL® 300 GREASE PUMP PACKAGES

ORDERING OPTIONS

50:1 GREASE PUMP SIDE POCKET AND HORIZONTAL MOUNT PACKAGES

Package Number		244644	244645
Type of Package		Side Pocket Mount	Horizontal Mount
Ratio		50:1	50:1
Pump Part Number		239888	239877
Dispense Kits		222072	222072
Dispense Kit Includes	Fluid Hose	1/4 in x 6 ft	1/4 in x 6 ft
	Hose Part Number	109150	109150
	6 ft Coupled Hose	203320	203320
	Fitting(s)	155494/155541	155494/155541
Air Hose Size		3/8 in x 6 ft	3/8 in x 6 ft
Pump Mount Bracket		3 in (f) Coupler – 512874	3 in (f) Coupler – 512874
Air Regulator		109075	109075
Air Shut-Off Valve		110224	110224
Installation Kit		948393	948393
Instruction Manual		309350	309350

FIRE-BALL® 425 GREASE PUMPS

THE PUMP OF CHOICE FOR YOUR MOST DEMANDING APPLICATIONS!

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

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

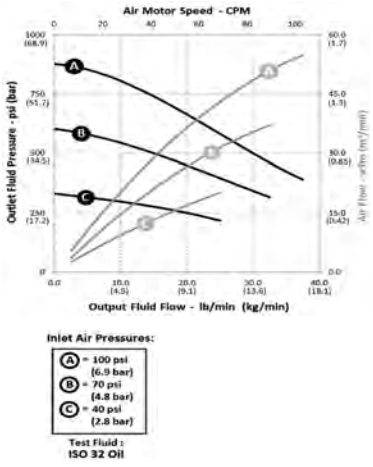
TYPICAL FLUIDS

- Grease up to NLGI #2

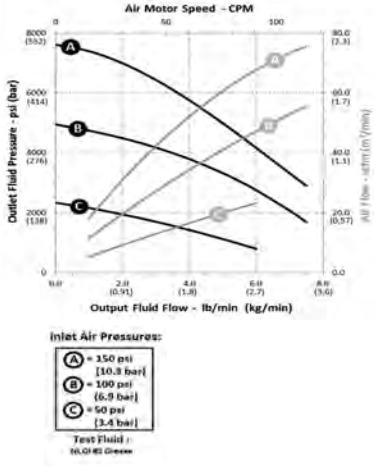
FIRE-BALL® 425 GREASE PUMPS

PUMP PERFORMANCE

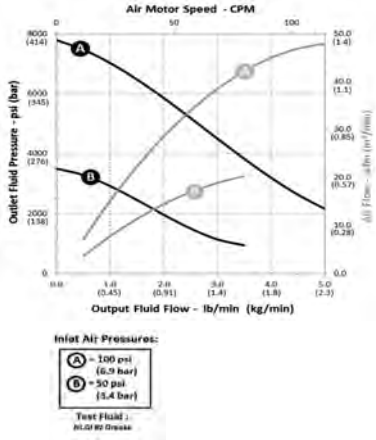
FIRE-BALL 425 10:1 PUMPS



FIRE-BALL 425 50:1 PUMPS



FIRE-BALL 425 75:1 PUMPS



TECHNICAL 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/min)
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 bar)
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 OPTIONS

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).

FIRE-BALL® 425 GREASE PUMP PACKAGES

ORDERING OPTIONS

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)
Pump Part Number		205394	205395	205395
Dispense Kits		222076	222076	205102
Dispense Kit Includes	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
	Hose Part Number	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
Instruction Manual		307880	307880	306556

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

FIRE-BALL® 425 GREASE PUMP PACKAGES

ORDERING OPTIONS

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)
Pump Part Number		239729	239730	239730
Dispense Kits		222076	222076	205102
Dispense Kit Includes	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
	Hose Part Number	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
Instruction Manual		307880	307880	306556

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

ORDERING OPTIONS

50:1 AND 75:1 GREASE PUMP LUBE TRUCK PACKAGES

Package Number		223107*	222075*	243817*	243818**
Type of Package		Lube Truck	Lube Truck	Lube Truck	Lube Truck
Ratio		50:1	50:1	75:1	75:1
Container Size		120 lb (55 kg)	400 lb (180 kg)	120 lb (55 kg)	400 lb (180 kg)
Pump Part Number		205394	205395	239729	239730
Dispense Kits		222076	222076	222076	222076
Dispense Kit Includes	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
	Hose Part Number	109163	109163	109163	109163
	6 ft Coupled Hose	205418	205418	205418	205418
	Fitting(s)	155470/155494	155470/155494	155470/155494	155470/155494
Air Hose Size		1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft
Drum Cover		222060	207366	222060	207366
Follower Plate		223344	223846	223344	223846
Hold Down Kit		222061	207361	222061	207361
Instruction Manual		307880	307880	307880	307880

*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.

FIRE-BALL® 425 GREASE PUMP RAM PACKAGES

ORDERING OPTIONS

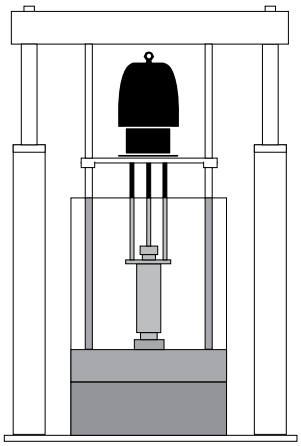
GREASE PUMP RAM PACKAGES

		Part 257435 (Ram Assembly) not shown	Part 257435 (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
Dispense Kit Includes	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft
	Hose Part Number	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
Instruction 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



FIRE-BALL® 425 GREASE PUMP PACKAGES

ORDERING OPTIONS

50:1 AND 75:1 GREASE PUMP SIDE POCKET AND HORIZONTAL MOUNT PACKAGES

Package Number		244646	244647	244648
Type of Package		Side Pocket Mount	Side Pocket Mount	Horizontal Mount
Ratio		50:1	75:1	75:1
Pump Part Number		205395	239730	239731
Dispense Kits		222076	222076	222076
Dispense Kit Includes	Fluid Hose	3/8 in x 6 ft	3/8 in x 6 ft	3/8 in x 6 ft
	Hose Part Number	109163	109163	109163
	6 ft Coupled Hose	205418	205418	205418
	Fitting(s)	155470/155494	155470/155494	155470/155494
Air Hose Size		1/2 in x 6 ft	1/2 in x 6 ft	1/2 in x 6 ft
Pump Mount Bracket		3 in (f) Coupler – 512874	3 in (f) Coupler – 512874	3 in (f) Coupler – 512874
Air Regulator		244844	244844	244844
Air Shut-Off Valve		110225	110225	110225
Installation Kit		948392	948392	948392
Instruction Manual		309350	309350	309350

FIRE-BALL GREASE PUMP ACCESSORIES

ORDERING OPTIONS

AIR REGULATORS

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

Part Number	Compatible Pump(s)	Includes							
		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

Part Number	Pressure Rating	Compatible Pumps	Includes			
			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

ORDERING OPTIONS

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		
			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

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

FIRE-BALL GREASE PUMP ACCESSORIES

ORDERING OPTIONS

FOLLOWER PLATES

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

HIGH-PRESSURE GREASE SHUT-OFF VALVE

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

ORDERING OPTIONS

PORTABLE BASES

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

CARTS

	Part Number	Description	Compatible Container Size
	203650	Drums fit onto recess on formed base. Rim clamps secure drum onto cart.	35 lb (16 kg) 70 lb (32 kg) 120 lb (55 kg)
	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

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

GT 750 36:1 GREASE PUMPS

FEWER STROKES AND LONGER PUMP LIFE

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

Efficient Air Motor
Use less air to move more grease.

Proven Pump Technology
Based on Graco NXT™ pump technology.

High Flow Rates
Up to 32 lb/min of grease.

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

High Volume Per Stroke
Pump more grease without having to drive pump too quickly to damage seals.

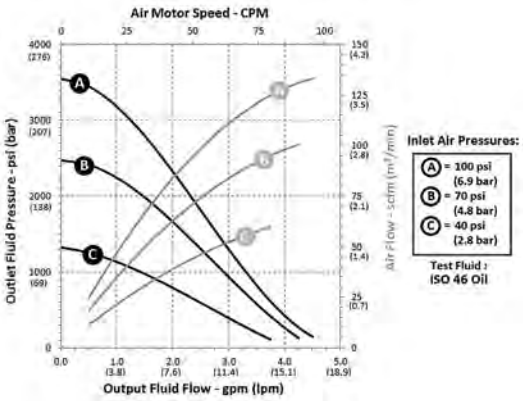
TYPICAL APPLICATIONS

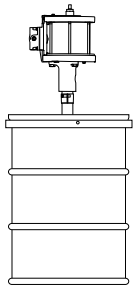
- Lube trucks
- Mining
- Heavy-duty dealerships
- Fleet service facilities
- In-plant

TYPICAL FLUIDS

- Grease up to NLGI #2

PUMP PERFORMANCE





Drum Mount

Side Pocket Mount

Horizontal Mount

Top Mount

ORDERING OPTIONS

GT 750 36:1 GREASE PUMPS

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

ACCESSORIES

CAM LOCK ADAPTERS

	Part Number	Description
	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

NXT CHECK-MATE® GREASE PUMPS

MOVE LARGE AMOUNTS OF GREASE FAST

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

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

- Grease up to NLGI #2

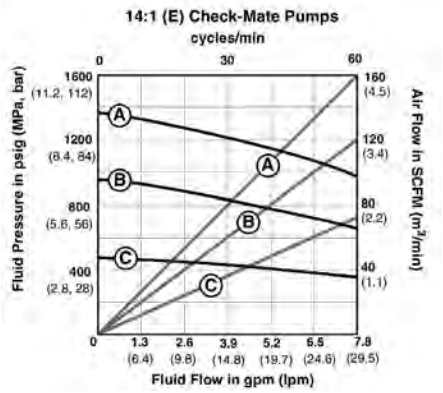
PUMP PERFORMANCE

Inlet Pressures:

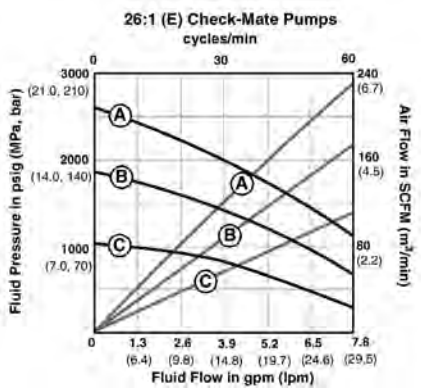
Ⓐ = 100 psi (6.9 bar) air pressure Ⓑ = 70 psi (4.8 bar) air pressure Ⓒ = 40 psi (2.8 bar) air pressure

TEST FLUID: No. 10 Weight Oil

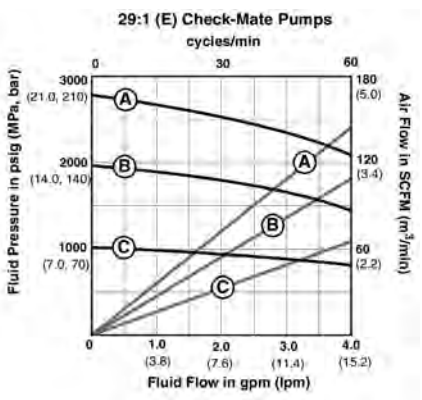
NXT 14:1 CHECK-MATE PUMPS



NXT 26:1 CHECK-MATE PUMPS



NXT 29:1 CHECK-MATE PUMPS



TECHNICAL 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 cpp	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 alloy steel; 304, 316, 17-4PH and 440C grades of stainless steel; acetal; carbon-filled PTFE; carbon 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

NXT CHECK-MATE® GREASE PUMPS

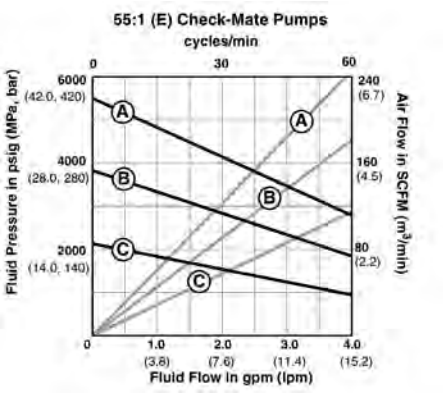
PUMP PERFORMANCE

Inlet Pressures:

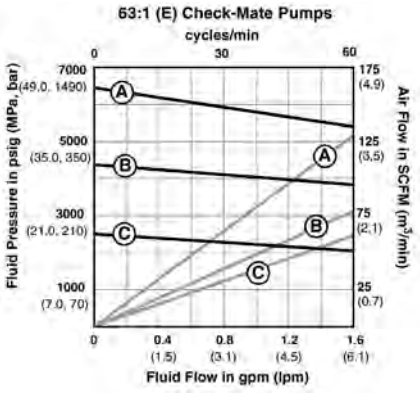
Ⓐ = 100 psi (6.9 bar) air pressure Ⓑ = 70 psi (4.8 bar) air pressure Ⓒ = 40 psi (2.8 bar) air pressure

TEST FLUID: No. 10 Weight Oil

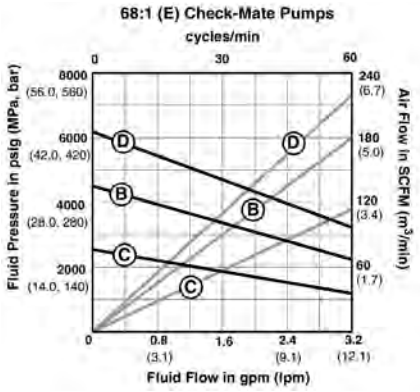
NXT 55:1 CHECK-MATE PUMPS



NXT 63:1 CHECK-MATE PUMPS



NXT 68:1 CHECK-MATE PUMPS



TECHNICAL SPECIFICATIONS

	NXT Check-Mate 55:1	NXT Check-Mate 63:1	NXT Check-Mate 68:1
Fluid Pressure Ratio	55:1	63:1	68:1
Air Motor	NXT 6500	NXT 3400	NXT 6500
Air Motor Effective Diameter	10.4 in (264 mm)	7.5 in (191 mm)	10.4 in (264 mm)
Pump Lower	L250CS	L100CS	L200CS
Maximum Fluid Working Pressure	5,500 psi (379 bar / 37.9 MPa)	4,500 psi (310 bar / 31 MPa)	5,300 psi (366 bar / 36.6 MPa)
Output per Cycle	7.7 oz (218 g)	3.1 oz (87 g)	6.1 oz (174 g)
Air Inlet	3/4 in NPT(F)	3/4 in NPT(F)	3/4 in NPT(F)
Fluid Outlet	1 in NPT(F)	3/4 in NPT(M)	1 in NPT(F)
Air Operation Range	0 psi to 100 psi (0 bar to 7 bar)	0 psi to 72 psi (0 bar to 4.9 bar)	0 psi to 78 psi (0 bar to 5.4 bar)
Max Recommended Pump Speed	20 cpm	20 cpm	20 cpm
Cycles per Pound	2.1 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 alloy steel; 304, 316 and 17-4PH grades of stainless steel; acetal; carbon-filled PTFE; CS; ductile iron; eNi, Zn and chrome plating; PTFE; UHMWPE
Sound Pressure Level	80 dB(A)	87 dB(A)	80 dB(A)
Sound Power Level	90 dB(A)	87 dB(A)	90 dB(A)
Approximate Weight	145 lb (66 kg)	101 lb (46 kg)	145 lb (66 kg)
Instruction Manual	System – 312863 Pump – 312376 Pump Lower – 312375 Air Motor – 311238	System – 312863 Pump – 312376 Pump Lower – 312375 Air Motor – 311238	System – 312863 Pump – 312376 Pump Lower – 312375 Air Motor – 311238

ORDERING OPTIONS

PUMP PACKAGES

Package Number	24E006	24E007	24E008	24E009	24E010	24E011
Ratio	14:1	26:1	29:1	55:1	63:1	68:1
Pump	P14DCS	P26DCS	P29DCS	P55DCS	P63DCS	P68DCS
Mounting Type	Floor Standing	Floor Standing	Floor Standing	Floor Standing	Floor Standing	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

ACCESSORIES

DATATRAK™ CONVERSION KITS

For converting NXT air motors to include the DataTrak module with runaway protection. Refer to manual 311486 for more details.

Part Number	Description
NXT306	Conversion kit for NXT3400 motors. Use with 14:1, 29:1 and 63:1 pumps.
NXT606	Conversion kit for NXT6500 motors. Use with 26:1, 55:1 and 68:1 pumps.

NXT CHECK-MATE® GREASE PUMPS

ORDERING OPTIONS

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

SEAL KIT

Part Number	Description
25S071	Nitrile seal kit for 400 lb (180 kg) drums

SINGLE POST RAM FOR GREASE PAILS

Part Number	Description
CM152B	P63LCS Pump, S20c Ram on cart, 5 gal (20 L) platen

DYNA-STAR® HYDRAULIC PUMPS

FIELD-PROVEN, ENERGY-EFFICIENT

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

Built-In Reliability

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

Quiet Hydraulic Motor

No need for add-on mufflers.

High-Efficiency Motor

Uses less hydraulic oil.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Grease up to NLGI #280 to 5,000 SUS

TECHNICAL 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)	2008088 – 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 (37º 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)	2008088 – 41 lb (18.6 kg) 247443 – 43.5 lb (19.7 kg) 247450 – 48 lb (21.8 kg)
Instruction Manual	308156	312350

DYNA-STAR® HYDRAULIC PUMPS

ORDERING OPTIONS

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
2008088	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.

MANUALLY-OPERATED GREASE PUMPS

ORDERING OPTIONS

MANUAL DISPENSE FROM BULK CONTAINERS

Package Number	225914*	225844*	112197**	112198**
Fluids Handled	Grease	Grease	Grease	Grease
Container Size	35 lb (16 kg)	35 lb (16 kg)	35 lb (16 kg)	120 lb (55 kg)
Pump Part Number	203702	203702	–	–
Dispense Kit	203703	203703	Filler Adapter***	Filler Adapter***
Booster Gun	203697	–	–	–
Cover and Follower Plate	203701	203701	–	–
Instruction Manual	306455	306455	306436	306436

*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

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

ACCU-SHOT™ METERED GREASE VALVE

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.

Battery Powered
Utilizes two standard AA alkaline batteries.

Accurate Grease Metering
± 3% accuracy with ± 1% repeatability.

Easy-to-Read LCD
Easily reset electronic display.

Handles Pressure Up to 5,000 psi (345 bar)
Flow up to 36 oz/min (1 kg/min).

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Grease up to NLGI #2

TECHNICAL SPECIFICATIONS

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

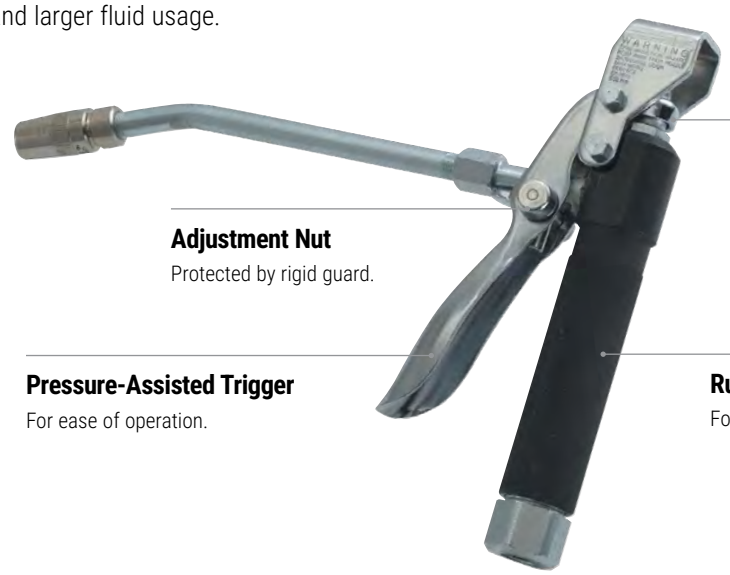
ORDERING OPTIONS

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	

PRO SHOT™ NON-METERED GREASE VALVE

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.



Easy Top Adjustment
With locking nut.

Adjustment Nut
Protected by rigid guard.

Pressure-Assisted Trigger
For ease of operation.

Rugged Design
For harsh environments.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Grease up to NLGI #2

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

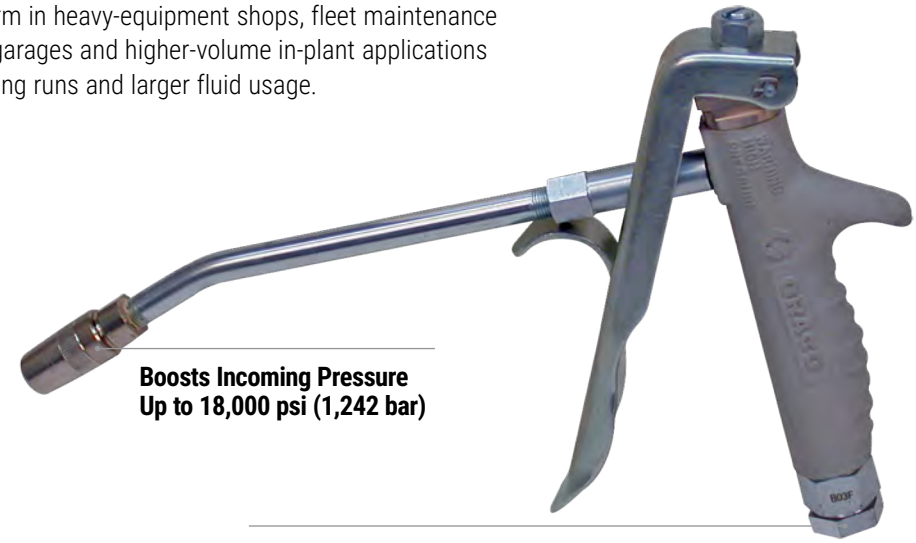
ORDERING OPTIONS

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

POWER SHOT™ BOOSTER VALVE

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.



Boosts Incoming Pressure Up to 18,000 psi (1,242 bar)

Maximum Inlet Pressure of 5,000 psi (345 bar)

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- 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 OPTIONS

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

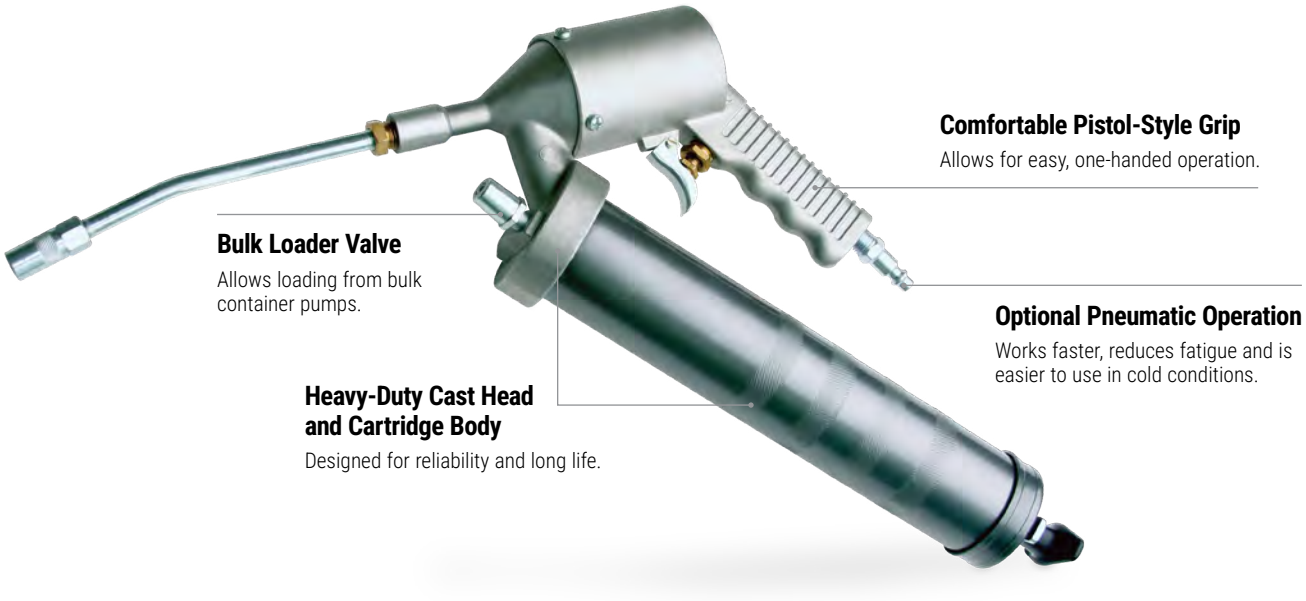
ACCESSORIES

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

HEAVY-DUTY GREASE GUNS

LEVER-ACTION AND PISTOL-STYLE GREASE DISPENSING GUNS

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



ORDERING OPTIONS

	Part Number	Style	Gun Type	Pressure psi (bar)	Loading	Includes
	112196	Pneumatic	Pistol	6,000 (414)	Bulk fill/ loader fill	Rigid extension and hydraulic coupler
	203697	Booster	Pistol	10,000 (690)	Loader fill	Rigid extension
	110218	Manual	Lever	6,000 (414)	Cartridge/ bulk fill	Rigid extension and hydraulic coupler
	110216			10,000 (690)	Cartridge/ bulk fill/ loader fill	Rigid extension, hydraulic coupler and air bleeder valve
	110203		Pistol			Rigid extension, hydraulic coupler and air bleeder valve
	110202					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

ORDERING OPTIONS

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)	NPT		Part Number
	Inlet	Outlet	
8,000 (500)	1/8 in	1/8 in	204082
8,000 (500)	1/4 in	1/8 in	204083
8,000 (500)	1/4 in	1/4 in	204084
6,000 (414)	1/2 in	1/2 in	207947
5,000 (345)	3/8 in	1/2 in	214926
5,000 (345)	1/2 in	1/2 in	207946

360° SWIVELS

Part Number	Includes	
	Fitting	Coupler
203597	203198	200325
203198	203198	–

NOZZLES

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

ACCESSORIES

ORDERING OPTIONS

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).
200021	1/8 NPT(F) inlet giant button-head coupler. Gives fast, positive seal on larger button-head fittings.

200325

ADAPTERS

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

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

205532

205582

205592

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

100054

100970

100834

100833

100848

ORDERING OPTIONS

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

101287

STANDARD BUTTON-HEAD GREASE FITTING (STEEL)

Part Number	Shank	Description
110711	35/64	1/2 NPT straight

GIANT BUTTON-HEAD GREASE FITTING (STEEL)

Part Number	Shank	Description
100854	1/2	1/4 NPT straight

EASY-OUTS

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

101604

GREASE ACCESSORY PACKAGES

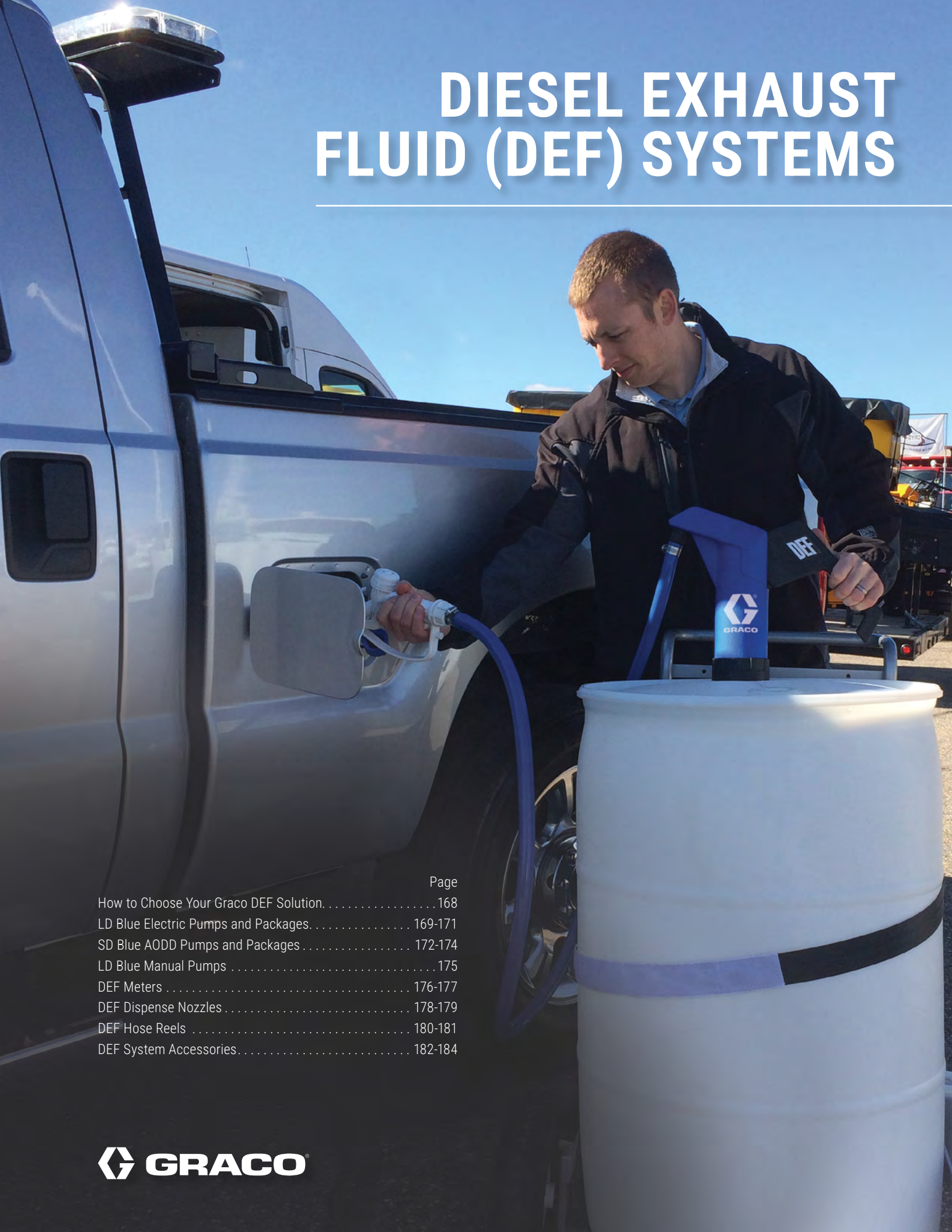
Convenient storage box contains the following threaded fittings in the quantities listed:

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

DIESEL EXHAUST FLUID (DEF) SYSTEMS



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GRACO

DIESEL EXHAUST FLUID (DEF) SYSTEMS

FLEXIBLE INSTALLATION – SOLUTIONS FOR EVERY APPLICATION

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

Tote Mount

Drum Mount

Wall Mount

HOW TO CHOOSE YOUR GRACO DEF SOLUTION

A 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.

B 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

C CHOOSE YOUR ACCESSORIES

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

LD BLUE ELECTRIC PUMPS

A RELIABLE INDUSTRIAL PUMP WITH SELF-PRIMING CAPABILITIES

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

Built-In Safety and Reliability

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

Stay Up and Running Longer

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

Reduced Maintenance

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

- Diesel exhaust fluid

ORDERING OPTIONS

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

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	cETLus	CE

LD BLUE ELECTRIC PUMP PACKAGES

ORDERING OPTIONS

LD BLUE ELECTRIC PUMP PACKAGES

Package Number	26C172	26C175	26C173	26C174
Mount Type	Tote	Tote	Tote	Tote
Voltage	12 VDC	120 VAC	12 VDC	120 VAC
Type of Nozzle	Automatic	Automatic	Automatic	Automatic
Nozzle	127655	127655	127655	127655
Pump	127643	127642	127643	127642
Bracket	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Meter	127873	127873	–	–
1 in Elbow Fitting	127656	127656	–	–
Dispense Hose	127680	127680	127680	127680
Dispense Hose Length	20 ft	20 ft	20 ft	20 ft
Suction Hose	127679	127679	127679	127679
Suction Hose Length	5 ft	5 ft	5 ft	2 ft
Fittings (2)	SST clamps	SST clamps	SST clamps	SST clamps

ORDERING OPTIONS

LD BLUE ELECTRIC PUMP PACKAGES

Package Number	24V641	24V644	24V645	24V656	24V646
Mount Type	Tote	Tote	Tote	Drum	Tote
Voltage	120V	120V	120V	120V	12V
Type of Nozzle	Automatic	Manual	Automatic	Automatic	Automatic
Nozzle	127649	125078	127649	127649	127649
Pump	127642	127642	127642	127642	127643
Bracket	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Meter	127663	–	–	–	127663
1 in Elbow Fitting	127656	–	–	–	127656
Dispense Hose	24W161	24W161	24W161	24W161	24W161
Dispense Hose Length	20 ft	20 ft	20 ft	20 ft	20 ft
Suction Hose Length	5 ft	5 ft	5 ft	5 ft	5 ft
Fittings (2)	SST clamps	SST clamps	SST clamps	SST clamps	SST clamps

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

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

SD BLUE HUSKY 515 PUMP

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

TYPICAL FLUIDS

- Diesel exhaust fluid

TECHNICAL SPECIFICATIONS

Maximum Flow Rate	15 gpm
Maximum Fluid Pressure	50 psi
Air Operating Range	30-50 psi
Air Inlet	1/4 in NPT(F)
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 OPTIONS

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

SD BLUE PUMP PACKAGES

ORDERING OPTIONS

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 PACKAGES

ORDERING OPTIONS

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

LD BLUE MANUAL PUMPS

Features and Benefits

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

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Diesel exhaust fluid

TECHNICAL SPECIFICATIONS

Maximum Flow Rate	11 oz per stroke

ORDERING OPTIONS

Part Number	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

SDI15 IN-LINE METER

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

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Diesel exhaust fluid

ORDERING OPTIONS

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).

LD BLUE IN-LINE METER

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.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Diesel exhaust fluid

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 OPTIONS

Part Number	Description
127663	LD digital in-line turbine meter, LCD display

ACCESSORIES

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

LD BLUE AUTOMATIC NOZZLES

Features and Benefits

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

TECHNICAL SPECIFICATIONS

	Automatic Shut-Off Nozzle	Automatic Shut-Off Nozzle with Meter
Flow Range	4 gpm to 12 gpm (15 lpm to 45 lpm)	4 gpm to 12 gpm (15 lpm to 45 lpm)
Maximum Working Pressure	50 psi (3.5 bar)	50 psi (3.5 bar)
Units of Measure	–	Quarts, pints, gallons, liters (factory-set to quarts)
Weight	1.3 lb (0.6 kg)	1.8 lb (0.8 kg)
Accuracy	–	± 1%
Inlet	1 in BSP 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 APPLICATIONS

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

TYPICAL FLUIDS

- Diesel exhaust fluid

ORDERING OPTIONS

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

SD BLUE NOZZLE

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

- Diesel exhaust fluid

ORDERING OPTIONS

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

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

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Diesel exhaust fluid

ORDERING OPTIONS

Part Number	Description
125078	LD manual DEF nozzle with SST spout

LDX DEF HOSE REELS

Features and Benefits

- For use with SD and LD pumps (LD pump with manual nozzle only)
- Stainless steel fluid section with open porting ensures high fluid flow with minimal pressure loss
- Flexible positioning of guide arm for mounting on bench, 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

- 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 OPTIONS

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

XD 30 DEF HOSE REELS

Features and Benefits

- For use with SD and LD pumps (LD pump with manual nozzle only)
- Stainless steel fluid section with open porting ensures high fluid flow with minimal pressure loss
- Flexible positioning of guide arm for mounting on bench, 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

- 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 OPTIONS

HOSE REELS

Part Number	Description
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
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)

ACCESSORIES

ORDERING OPTIONS

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
Standard	24W148	2 ft suction hose kit with (2) hose clamps
Standard	24W149	5 ft suction hose kit with (2) hose clamps
Standard	24W190	6 ft dispense hose kit with (2) hose clamps
Standard	24W154	12 ft dispense hose kit with (2) hose clamps
Standard	24W161	20 ft dispense hose kit with (2) hose clamps
Deluxe	124875	2 ft suction hose, 3/4 in BSPP(M) x cut end (inlet hose)
Deluxe	124581	6 ft suction hose, 3/4 in BSPP(M) x cut end (inlet hose)
Deluxe	124671	12 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP
Deluxe	125079	12 ft dispense hose, 3/4 in BSPP x cut end
Deluxe	124603	20 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP
Deluxe	125074	20 ft dispense hose, 3/4 in BSPP x cut end
Deluxe	125242	50 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP

ORDERING OPTIONS

FITTINGS

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

CLOSED-SYSTEM COUPLER ACCESSORIES

ORDERING OPTIONS

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.

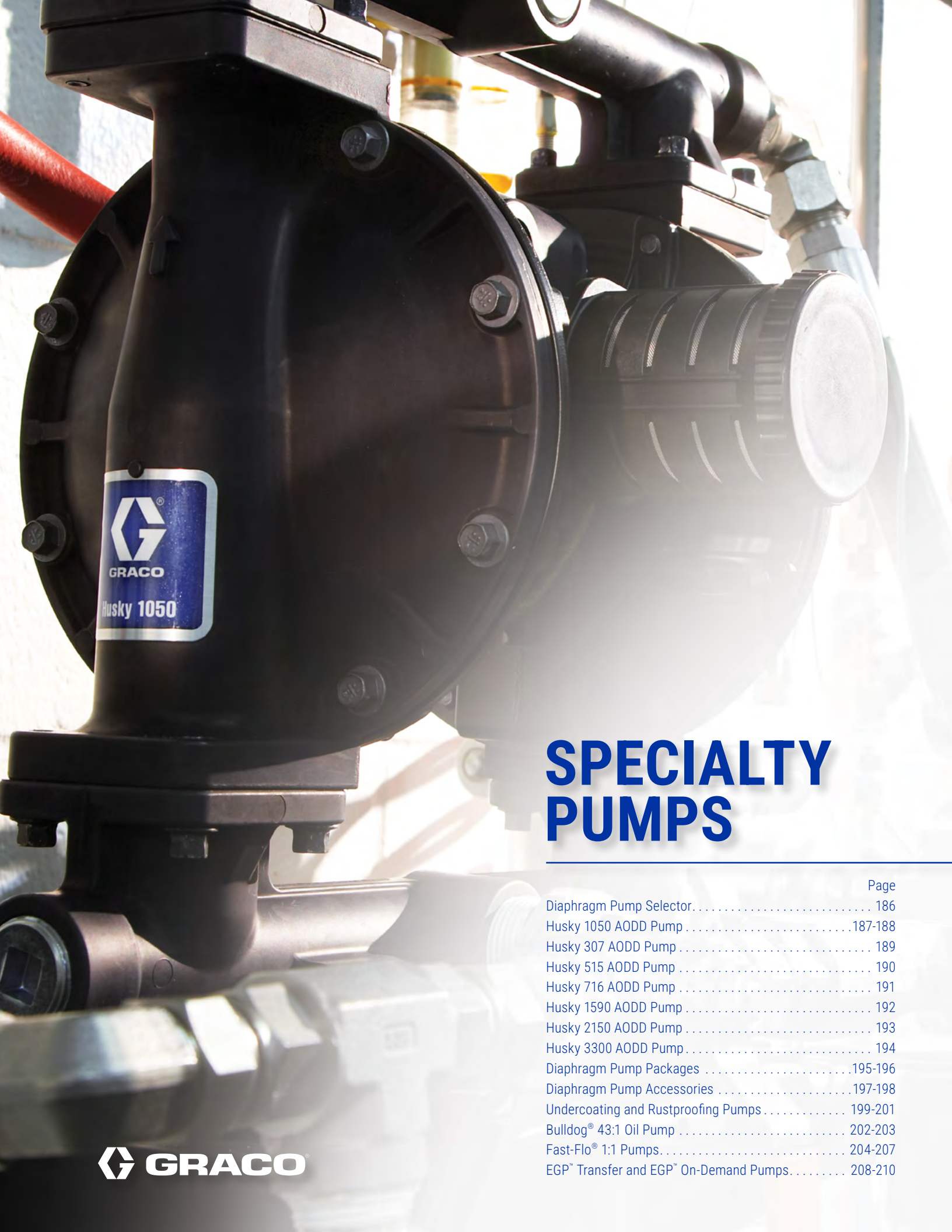
	Part Number	Description
	24F532	Colder closed-system coupler kit – includes drum coupler (124548), drum insert (124549) and downtube (124550)
	124548	Colder closed-system drum coupler
	124549	Colder closed-system drum insert
	125014	Colder closed-system drum insert with buttress thread
	124550	Colder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

DrumQuick® is a registered trademark of Colder Products Company.

MICRO MATIC

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

	Part Number	Description
	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
Image to come	2008242	DEF Downtube



SPECIALTY PUMPS

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GRACO

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)	191
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)	192
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)	193
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)	189-190
Husky 1050	647731	Husky 1050 Aluminum – 1 in Aluminum/Buna-N	• Oil evacuation • Oil transfer	UL	100 psi (6.9 bar)	189-190
Husky 1050	647648	Husky 1050 Aluminum – 1 in Aluminum/TPE	• Fuel dispense • Gasoline (up to 10% ethanol)	UL	50 psi (3.5 bar)	189-190
Husky 1590	DB3525	Husky 1590 Aluminum – 1.5 in Aluminum/TPE	• Oil evacuation • Oil transfer • Water • Antifreeze	–	120 psi (8.3 bar)	194
Husky 2150	DF3525	Husky 2150 Aluminum – 2 in Aluminum/TPE	• Oil evacuation • Oil transfer • Water • Antifreeze	–	120 psi (8.3 bar)	195
Husky 3300	652002	Husky 3300 Aluminum – 3 in Aluminum/TPE	• Oil evacuation • Oil transfer • Water • Antifreeze	–	125 psi (8.6 bar)	196

HUSKY 1050 AODD PUMP

EFFICIENCY, PERFORMANCE AND BEST-IN-CLASS ENGINEERING

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

Modular Air Valve

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

One-Piece Center Section

Eliminates air leaks for more efficient operation

Longer Diaphragm Life

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

Four-Bolt Joint Design

Bolted design provides even sealing pressure for leak-free operation

Multiple Ports

Increased number of ports for installation flexibility

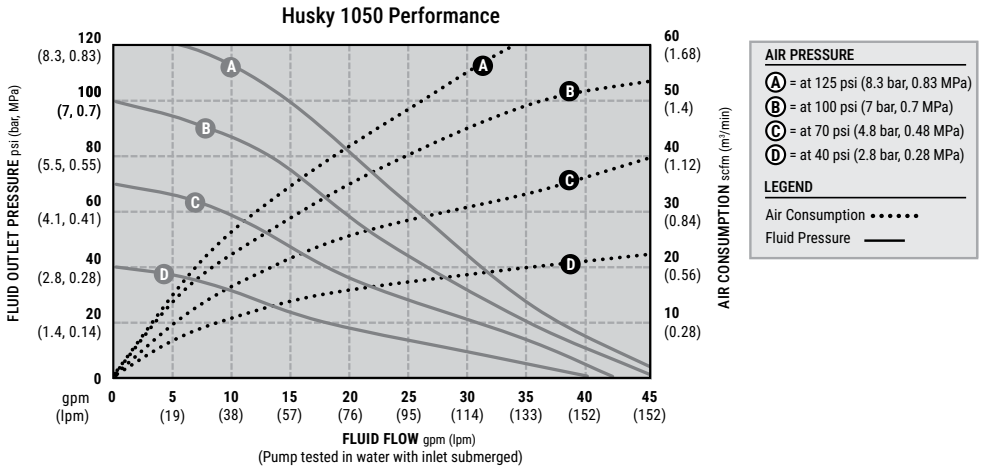
TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Oil
- Fuel
- Water
- Antifreeze
- Washer fluid

PUMP PERFORMANCE



HUSKY 1050 AODD PUMP

TECHNICAL 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.
**Sound pressure was tested 3.28 ft (1 m) from equipment.

ORDERING OPTIONS

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

HUSKY 307 AODD PUMP

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 m^3/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

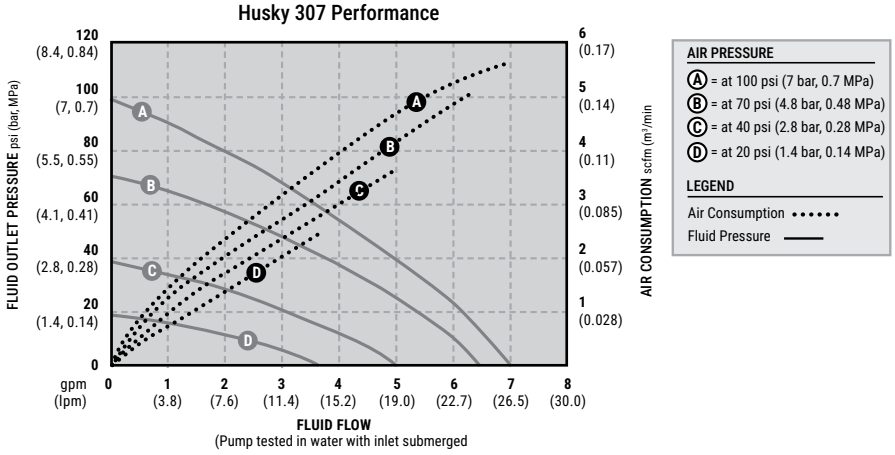
*Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

ORDERING OPTIONS

HUSKY 307 AODD PUMP

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

PUMP PERFORMANCE



HUSKY 515 AODD PUMP

Husky 515 AODD Pump

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

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 m^3/min)
Air pressure operating range	30 psi to 100 psi (2.1 bar to 6.9 bar, 0.21 MPa to 0.69 MPa)
Air inlet size	1/4 NPT(F)
Fluid inlet size	3/4 in NPT(F)
Fluid outlet size	1/2 and 3/4 in NPT(F)
Weight	7.8 lb (3.5 kg)
Wetted parts	Groundable acetal, Buna-N, PTFE
Instruction manual	309204

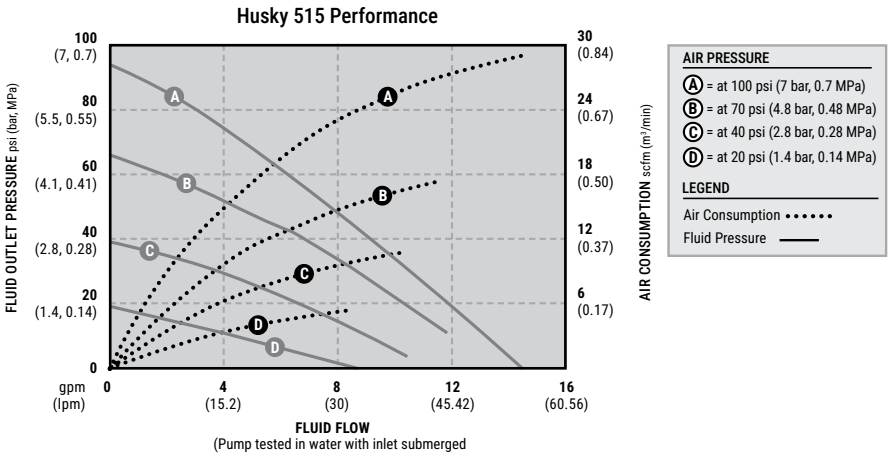
*Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

ORDERING OPTIONS

HUSKY 515 AODD PUMP

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

PUMP PERFORMANCE



HUSKY 716 AODD PUMP

Husky 716 AODD Pump

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

TECHNICAL 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 m^3/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

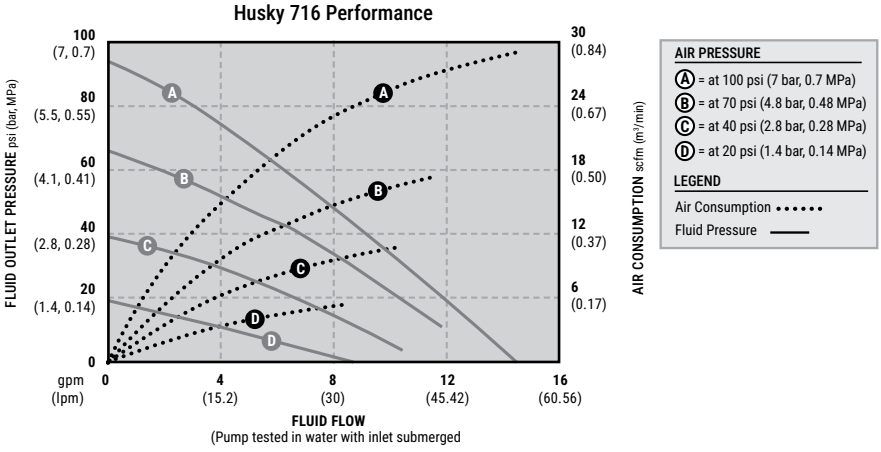
*Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

ORDERING OPTIONS

HUSKY 716 AODD PUMP

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

PUMP PERFORMANCE



SPECIALTY PUMPS

HUSKY 1590 AODD PUMP

Husky 1590 AODD Pump

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

TECHNICAL SPECIFICATIONS

Maximum fluid working pressure	120 psi (8.4 bar, 0.84 MPa)
Maximum free-flow delivery*	100 gpm (378.5 l/min)
Maximum pump speed	200 cpm
Fluid displacement per cycle**	0.5 gal (1.96 l)
Maximum suction lift	20 ft (6.1 m) dry
Maximum-size pumpable solids	0.19 in (4.8 mm)
Maximum ambient operating temperature***	150°F (65.5°C)
Maximum diaphragm operating temperature***	150°F (65.5°C)
Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 125 cpm	77 dB(A)
Maximum air consumption	125 scfm (3.5 m^3/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

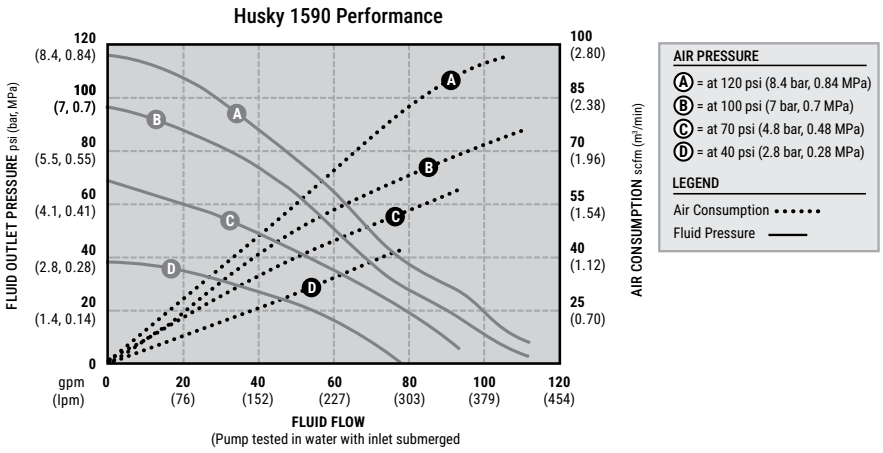
*Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

ORDERING OPTIONS

HUSKY 1590 AODD PUMP

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

PUMP PERFORMANCE



HUSKY 2150 AODD PUMP

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 m^3/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

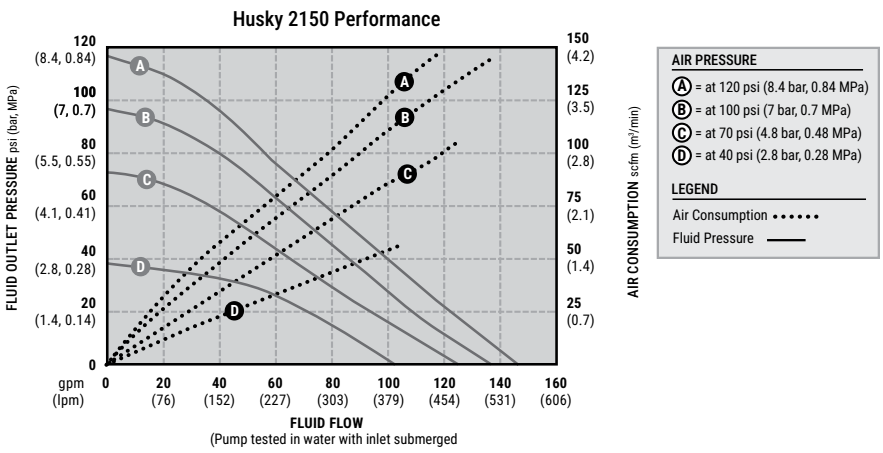
*Flow rates are with muffler and do not vary based on diaphragm material. **Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. ***Actual pump performance may be affected by prolonged usage at temperature.

ORDERING OPTIONS

HUSKY 2150 AODD PUMP

Part Number	Description
DF3525	Husky 2150 Aluminum – 2 in, Aluminum/TPE

PUMP PERFORMANCE



HUSKY 3300 AODD PUMP

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 m^3/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. **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.

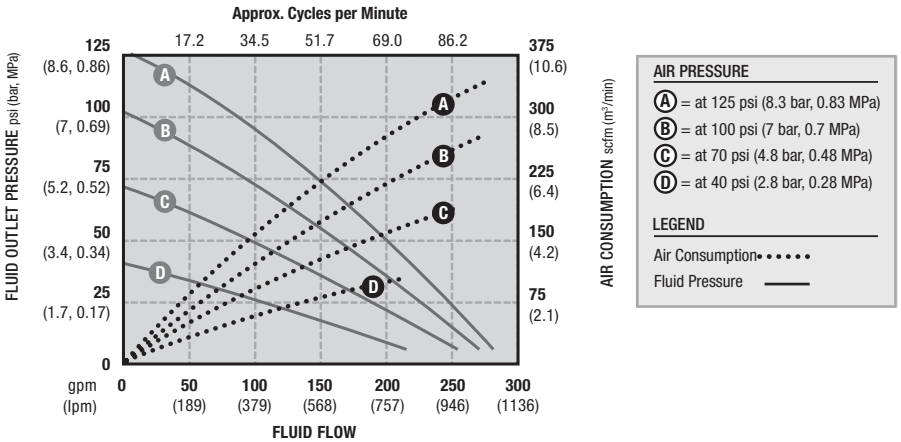
ORDERING OPTIONS

HUSKY 3300 AODD PUMP

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

PUMP PERFORMANCE

Husky 3300 Performance



(Pump tested in water with inlet submerged)

DIAPHRAGM PUMP PACKAGES

ORDERING OPTIONS

PRE-MIXED WINDSHIELD WASH SOLVENT AND COOLANT DISPENSE

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

DIAPHRAGM PUMP PACKAGES

ORDERING OPTIONS

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

DIAPHRAGM PUMP ACCESSORIES

ORDERING OPTIONS

AIR LINE FILTERS

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

AIR REGULATOR AND GAUGE

Husky Pump	307	515/716	1050	1590	2150	3300
Part Number	110147	110147	244844	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

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

BLEED-TYPE AIR VALVE

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
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

ORDERING OPTIONS

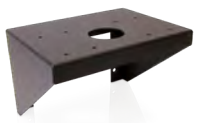
THERMAL RELIEF KIT

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

THERMAL RELIEF VALVES – 150 PSI (10.3 BAR)

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

WALL BRACKET



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

AIR-OPERATED DOUBLE-DIAPHRAGM TRANSFER PUMPS REPLACEMENT PARTS

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

UNDERCOATING AND RUSTPROOFING PUMPS

IDEAL FOR UNDERCOATING AND RUSTPROOFING APPLICATION IN MEDIUM-SIZED SHOPS

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

Durable Casting

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 salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

TYPICAL APPLICATIONS

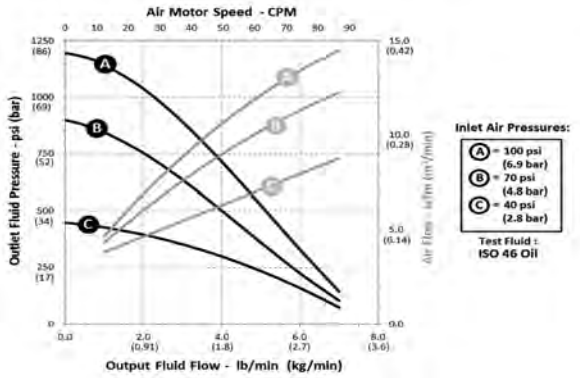
- Undercoating, rustproofing and sound-deadening materials
- Automotive and heavy-duty vehicle dealerships
- Fast lube centers and service shops
- Fleet service facilities

TYPICAL FLUIDS

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

PUMP PERFORMANCE

FIRE-BALL 300 15:1 PUMPS



UNDERCOATING AND RUSTPROOFING PUMP PACKAGES

TECHNICAL 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 OPTIONS

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	–
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

*Dispense kit includes Air Regulator (110234), Air Gauge (100960), Spray Gun (234237)

UNDERCOATING AND RUSTPROOFING ACCESSORIES

ORDERING OPTIONS

APPLICATION GUN

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)

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

SWIVEL

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

BULLDOG® 43:1 OIL PUMP

RELIABLE OPERATION IN THE HARSHEST ENVIRONMENTS

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

Added Safety
Grounded lug prevents static buildup.

Easy Installation
Compact, low-profile design makes installation easier.

Corrosion-Resistant
Lightweight aluminum construction.

Built-In Reliability
Tested to 10 million cycles without failure.

TYPICAL APPLICATIONS

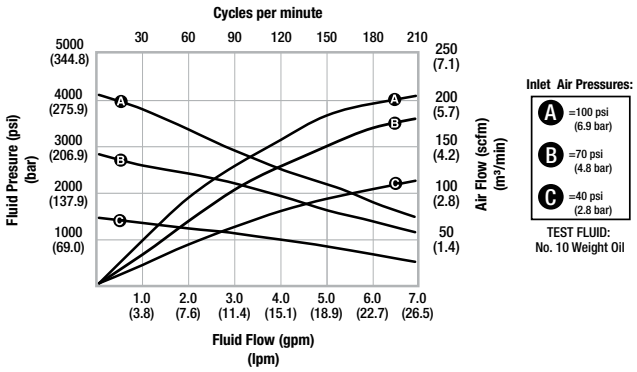
- Supplies hydraulic oil to accumulators in oil rig blow-out prevention systems.

TYPICAL FLUIDS

- 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 OPTIONS

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

FAST-FLO® 1:1 PUMPS

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

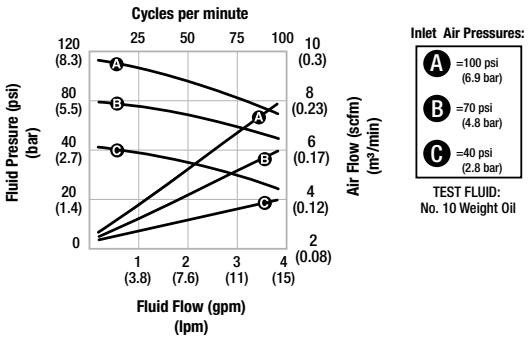
TYPICAL FLUIDS

- Water
- Antifreeze
- Windshield wash fluid

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

PUMP PERFORMANCE

FAST-FLO 1:1 PUMPS



TECHNICAL SPECIFICATIONS

Fluid Pressure Ratio	1:1
Air Motor Effective Diameter	1.4 in (35.6 mm)
Maximum Fluid Working Pressure	180 psi (12 bar/1.2 Mpa)
Approximate Free-Flow Rate @ 100 psi (80 cpm)	5 gal/min (19 liters/min)
Output per Cycle	151 cc
Approximate Air Use and Flow @ 100 psi (80 cpm)	7 csfm @ 3.1 gpm (0.2 m^3/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 OPTIONS

FAST-FLO 1:1 PUMPS

Includes motor and pump lower assembly.

Fluid	Length	Tube Material	Seal Material	Approvals	Part Number
Antifreeze, Windshield Washer Solvent, ATF, Oil	Drum	Stainless Steel	Polyethylene	ETL, CE, EX	226942
	Universal	Stainless Steel	Polyethylene	ETL, CE, EX	226945

FAST-FLO® 1:1 PUMP ACCESSORIES

ORDERING OPTIONS

HOSE AND FITTING KITS

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

BUNG ADAPTERS

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

INSTALLATION KITS

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

SUCTION KIT

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

ORDERING OPTIONS

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
	106149	1/2 in NPT inlet and outlet

AIR LINE LUBRICATOR

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

EGP™ TRANSFER AND EGP ON-DEMAND

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.

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 APPLICATIONS

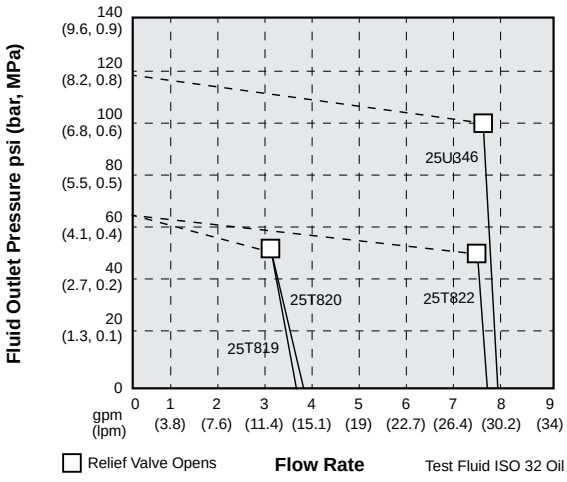
- Filling bulk tanks from drums
- Lubricant transfer from remote locations
- Construction equipment
- Agricultural equipment
- Filling in-plant machinery
- Evacuating used oil receivers
- Filling shop oil furnaces with new or used oil
- Automotive and truck service garages
- Fleet marine and personal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

TYPICAL FLUIDS

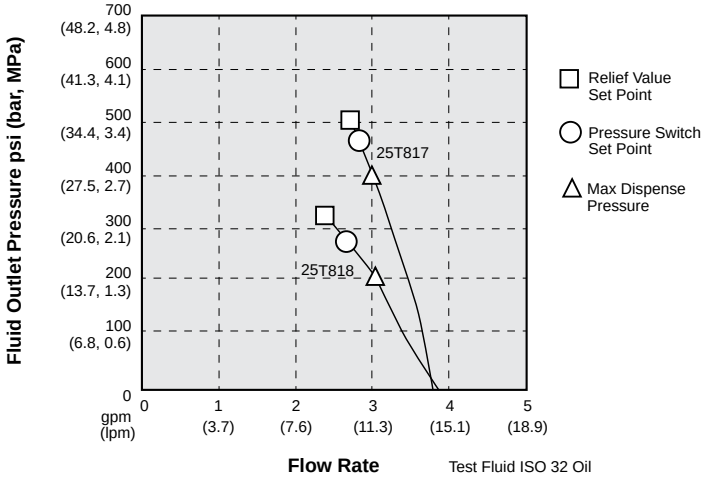
- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Waste oil
- Hydraulic fluids
- Cutting oils
- Non-flammable oil-based solvents
- Oil-based herbicide carriers

PUMP PERFORMANCE

EGP TRANSFER PUMPS PERFORMANCE CHART



EGP ON-DEMAND PUMPS PERFORMANCE CHART



ORDERING OPTIONS

	EGP Transfer Pump Models					EGP On-Demand Pump Models	
Package Part Number	25T819	25T820	25T822	–	–	–	–
Pump Part Number	–	–	–	2005948	25U346	25T817	25T818
Voltage	12 VDC	115 VAC	115 VAC	115 VAC	115 VAC	115 VAC	12 VDC
Hertz	–	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	–
Motor Type	TENV	ODP	ODP	ODP	TENV – IP55	TENV – IP55	TENV
Horsepower	1/2	1/2	3/4	3/4	1.0	1.5	3/4
Maximum Current (Amps)	30	8.7	9.9	9.9	9.1	14.4	60
Maximum Free Flow Rate gpm (lpm)	3.8 (14.4)	3.9 (14.8)	7.7 (29.1)	7.7 (29.1)	7.7 (29.1)	3.7 (14.0)	3.8 (14.4)
Maximum Pressure psi (bar)	65 (4.5)	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)	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	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	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 steel, aluminum, nitrile, rubber, PVC, PVC cement					Carbon steel with zinc plating, stainless steel, galvanized steel, aluminum, nitrile, rubber	
Weight lb (kg)	25 (11)	22 (10)	25 (11)	25 (11)	25 (11)	36 (16.3)	36 (16.3)
Manual	3A8569	3A8568	3A8568	3A8568	3A8568	3A8570	3A8571

EGP™ TRANSFER AND EGP ON-DEMAND

ORDERING OPTIONS

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

HOSE AND CORD REELS

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SD™ Series Cord and Light Reels	222-225
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XD™ Series 60/70/80 Powered Hose Reels	242-246
Hose Reel Accessories	247-250

GRACO®

HOSE AND CORD REEL SELECTION GUIDE

	Typical Application	Typical Fluid	Hose/Cord Length Options	Enclosed	Reference Pages
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	214-215
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	216-221
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	222-225
XDX™ 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	· 50 ft (15 m) · 65 ft (20 m)	Optional	226-230
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	231-235
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	236-241
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	242-246

HOSE AND CORD REELS

GRACO

LDX SERIES HOSE REELS

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.

Adjustable Arm

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

External Swivel Housing

Quickly access swivel seal for faster repairs.

Ball Bearing Swivel

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

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.

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

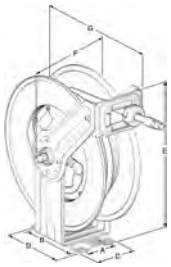
- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze
- Windshield washer fluid
- Diesel exhaust fluid (DEF)

TECHNICAL SPECIFICATIONS

Operating 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)
Wetted Parts	
Air/Water/Antifreeze/Windshield Washer Fluid	EPDM, stainless steel, fluorocarbon (FKM)
DEF	Hybrid polymer, brass, nitrile rubber
Oil	Zinc-plated steel, brass, polyurethane, nitrile rubber
Grease	Zinc-plated steel, brass, nitrile rubber
Sound Pressure Level	80 dB(A)
Sound Power Level	87 dB(A)
Instruction Manual	3A8216

DIMENSIONS

A	3.5 in (89 mm)
B	7.5 in (191 mm)
C	4.9 in (125 mm)
D	8.7 in (221 mm)
E	19.0 in (483 mm)
F	9.4 in (239 mm)
G	17.5 in (445 mm)



TYPICAL MOUNTING CONFIGURATIONS

Overhead Mount

Wall Mount

Bench Mount

ORDERING OPTIONS

LDX REELS

Part Number	Fluid	Hose		Connection Size		Maximum Pressure PSI
		ID (in)	Length (ft)	Inlet (in)	Outlet (in)	
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

SDX SERIES HOSE REELS

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.

Durable Finish

Baked-on enamel finish (five colors available) protects reel from corrosion.

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.

Reel arm shown in tank/bench mount position.

Adjustable Arm

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

Heavy-Duty Spring

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

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.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

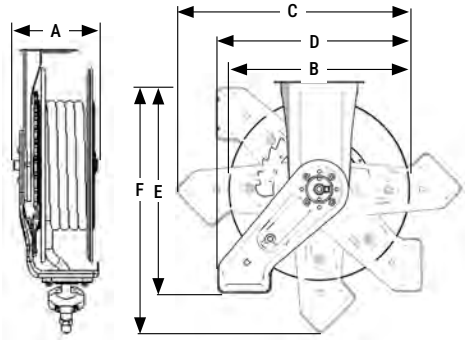
- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze/coolant
- Windshield washer fluid

TECHNICAL SPECIFICATIONS

Operating Temperature Range	
Air/Water/Antifreeze/Windshield Washer Fluid	-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, nitrile rubber, steel
Weight	52 lb (23.5 kg)
Sound Pressure Level	80 dB(A)
Sound Power Level	87 dB(A)
Instruction Manual	3A8626

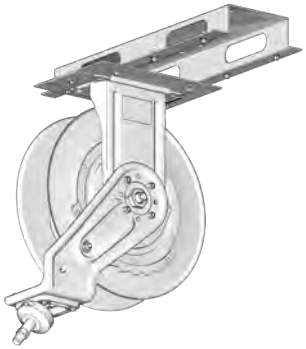
DIMENSIONS

	SDX 10	SDX 20
A	7.0 in (177 mm)	7.0 in (177 mm)
B	16.2 in (412 mm)	18.1 in (460 mm)
C	21.0 in (533 mm)	23.4 in (594 mm)
D	17.1 in (435 mm)	19.2 in (488 mm)
E	19.5 in (495 mm)	21.8 in (554 mm)
F	22.5 in (571 mm)	25.2 in (640 mm)

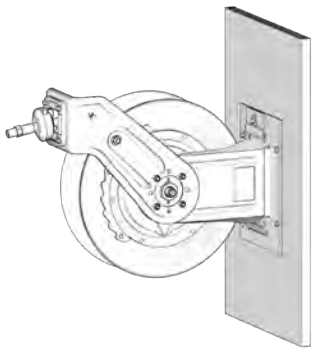


TYPICAL MOUNTING CONFIGURATIONS

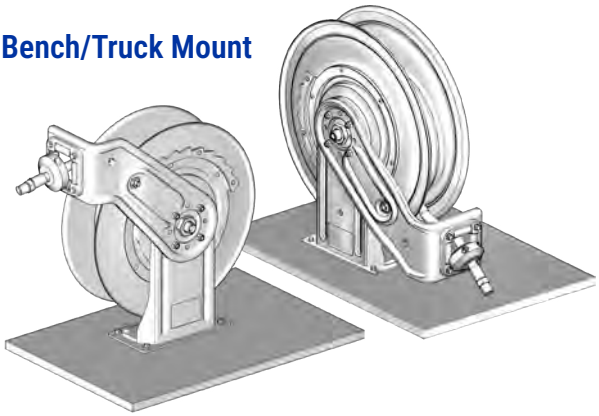
Overhead Mount



Wall Mount



Bench/Truck Mount



Available in
5 COLORS
Consult factory for lead times

SDX10 & SDX20

Metallic Blue (B)

Black (D)

Red (C)

SDX20 ONLY

Yellow (F)

White (A)

SDX SERIES HOSE REELS

ORDERING OPTIONS

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	A
Metallic Blue	B
Red	C
Black	D
Yellow	F

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

1 **Select your reel position:** SDM65#

2 **Select your reel color:** (from Reel Assembly Ordering Guide – opposite) Metallic Blue = "B"

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 Size	Fluid	Hose		Connection Size		Maximum Pressure psi (bar)	Assembly Part Number	Recommended Hose Inlet Kit
		ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)			
SDX 10	Air/Water/ Antifreeze/ Windshield Washer Fluid	3/8 (10)	35 (11)	1/2 (13)	3/8 (10)	300 (20.7)	SDL23#	218549
		3/8 (10)	50 (15)	1/2 (13)	3/8 (10)	300 (20.7)	SDL25#	
		1/2 (13)	35 (11)	1/2 (13)	1/2 (13)	300 (20.7)	SDL33#	
SDX 20		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		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	2,000 (138)	SDM65#	
SDX 20	Grease	3/8 (10)	50 (15)	3/8 (10)	1/4 (6)	4,800 (331)	SDH55#	218550

ARM IN TANK/BENCH MOUNT POSITION

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

Reel Size	Fluid	Hose		Connection Size		Maximum Pressure psi (bar)	Assembly Part Number	Recommended Hose Inlet Kit
		ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)			
SDX 20	Oil	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	2,000 (138)	SDM6HB	218549

ORDERING OPTIONS

BARE REELS

ARM IN OVERHEAD MOUNT POSITION

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

Reel Size	Fluid	Hose (Not Included)		Connection Size		Maximum Pressure psi (bar)	Assembly Part Number	Recommended Hose Inlet Kit
		ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)			
SDX 20	Air/Water/ Antifreeze/ Windshield Washer Fluid	3/8 (10)	65 (20)	1/2 (13)	1/2 (13)	300 (20.7)	SDL6D#	218549
		1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	300 (20.7)	SDL6D#	
SDX 20	Oil	1/2 (13)	50 (15)	1/2 (13)	1/2 (13)	2,000 (138)	SDM6D#	
SDX 20	Grease	3/8 (10)	50 (15)	3/8 (10)	3/8 (10)	5,000 (345)	SDH5D#	218550

SDX 10 OIL REEL PACKAGES

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

SDX SERIES HOSE REELS

ORDERING OPTIONS

SDX 10 AIR/WATER REEL PACKAGES

	Reel Size	Fluid	Valve Type	Enclosure	Package Number	Package Includes				
						Reel Assembly	Enclosure	Hose Inlet Kit	Valve	Fitting
	SDX 10	Water	Water Bib Dispense Valve	No	24D999	SDL23B	–	218549	180685	150287
				Yes	24D993	SDL23B	24A217	218549	180685	150287
					24D994	SDL33B	24A217	218549	180685	159842
		Air	Tire Chuck Valve	No	24D998	SDL23B	–	218549	218545	–
				Yes	24D992	SDL23B	24A217	218549	218545	–
		Air/Water	None	Yes	24D989	SDL23B	24A217	218549	–	–
					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)
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
2,000 (137)	1/2 (13)	2 (0.6)	218549
4,000 (276)	3/8 (10)		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 OPTIONS

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
	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

SD SERIES CORD AND LIGHT REELS

QUALITY CORD AND LIGHT REELS

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

Durable Frame in Two Sizes

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

Multiple Cord Lengths

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

Adjustable Arm

- Easily change the arm position to fit more applications.
- Works on walls, 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.

UL/CSA Approved

TYPICAL APPLICATIONS

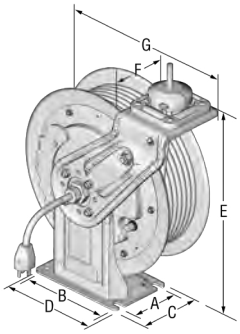
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

TECHNICAL SPECIFICATIONS

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			
120V	SD 5	12 AWG, Length 50 ft	25.4 lb
	SD 10	16 AWG, Length 95 ft	46.3 lb
		12 AWG, Length 95 ft	51.8 lb
Instruction Manual			3A2592

DIMENSIONS

	SD Series 5	SD Series 10
A	3.5 in (89 mm)	3.5 in (89 mm)
B	6.38 in (162 mm)	7.5 in (191 mm)
C	4.7 in (120 mm)	4.7 in (120 mm)
D	7.48 in (190 mm)	9 in (229 mm)
E	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)



ORDERING OPTIONS

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
Single Industrial Receptacle	SD 5	12	20	50 ft (15 m)	SJOOW	24Y863
	SD 10	12	18	95 ft (29 m)	SJOOW	24Y882
Tri-Plug GFCI Industrial Receptacle	SD 5	12	15	50 ft (15 m)	SJOOW	24Y864
	SD 10	12	15	95 ft (29 m)	SJOOW	24Y883
LED Light with In-line Tool Tap	SD 5	16	12	50 ft (15 m)	SJTOW	24Y872
	SD 10	16	10	95 ft (29 m)	SJTOW	24Y887

SD SERIES CORD AND LIGHT REEL ACCESSORIES

ORDERING OPTIONS

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 227.

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
	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.

ORDERING OPTIONS

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

HANDS-FREE MAGNETIC CLIP

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

Part Number	Description
16P999	Magnetic clip for light tube

XDX SERIES HOSE REELS

20

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.

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.

Low-Friction Cartridge Swivel

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

Full-Flow Swivel

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

Durable Finish

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

Optional Adjustable Arm

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

Heavy-Duty Adjustable Spring

Powerful retraction performance that allows you to easily increase or decrease spring tension while the reel is pressurized with fluid.

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

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze/coolant
- Windshield washer fluid

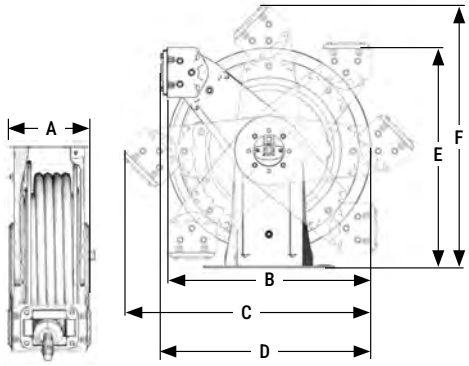
TECHNICAL SPECIFICATIONS

Operating Temperature Range	
Air/Water/Antifreeze/Windshield Washer Fluid	-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	
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

DIMENSIONS

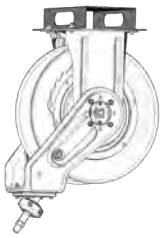
XD Models (with adjustable arm)

	XDX 20
A	7.5 in (196 mm)
B	18.1 in (460 mm)
C	23.4 in (594 mm)
D	20.0 in (508 mm)
E	21.0 in (533 mm)
F	25.2 in (640 mm)

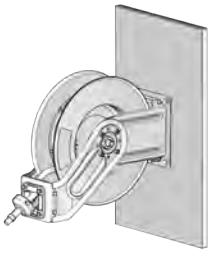


TYPICAL MOUNTING CONFIGURATIONS

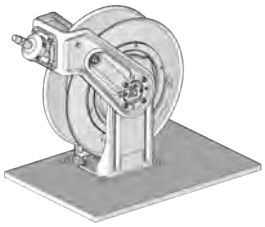
Overhead Mount



Wall Mount



Bench/ Truck Mount



Available in
4 COLORS
Consult factory for lead times

Metallic Blue (B)

Yellow (F)

Black (D)

White (A)

XDX SERIES HOSE REELS

20

ORDERING OPTIONS

XDX 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	A
Metallic Blue	B
Black	D
Yellow	F

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

1 **Select your reel position:** XDM65#

2 **Select your reel color:** Black = "D"
(from Reel Assembly Ordering Guide – opposite)

Order Part Number: XDM65D

HOSE AND CORD REELS

XD MODELS (WITH ADJUSTABLE ARM)

REEL ASSEMBLIES

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

Reel Size	Fluid	Hose (Included)		Connection Size		Maximum Pressure psi (bar)	Assembly Part Number	Recommended Hose Inlet Kit
		ID in (mm)	Length ft (m)	Inlet	Outlet			
XDX 20	Air/Water/Antifreeze/ Windshield Washer Fluid	3/8 (10)	65 (20)	1/2 NPSM(M)	3/8 NPT(M)	300 (20.7)	XDL56#	218549
		1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	XDL65#	
	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 Size	Fluid	Hose (Not Included)		Connection Size		Maximum Pressure psi (bar)	Part Number	Recommended Hose Inlet Kit
		ID in (mm)	Length ft (m)	Inlet	Outlet			
XDX 20	Air/Water/Antifreeze/ Windshield Washer Fluid	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPSM(F)	300 (20.7)	XDL6D#	218549
	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

ORDERING OPTIONS

ACCESSORIES

BALL STOP KITS

XDX 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	For 1/4 in to 3/8 in (6 mm to 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	For 3/8 in (10 mm) ID hose
24D133	For 1/2 in (13 mm) ID hose

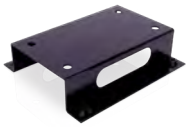
HOSE INLET KITS

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

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

XDX SERIES HOSE REEL ACCESSORIES

20

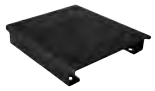
ORDERING OPTIONS

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	Yellow	Required End-Caps (set of 2)
XDX 10	–	24N332	–	24N334	24N336	24A950
XDX 20	24N337	24N339	24N340	24N341	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
224444	Mounts to side of reel to allow hanging of non-metered and high-flow dispensing valves

SELF-ADHESIVE IDENTIFICATION LABEL SET

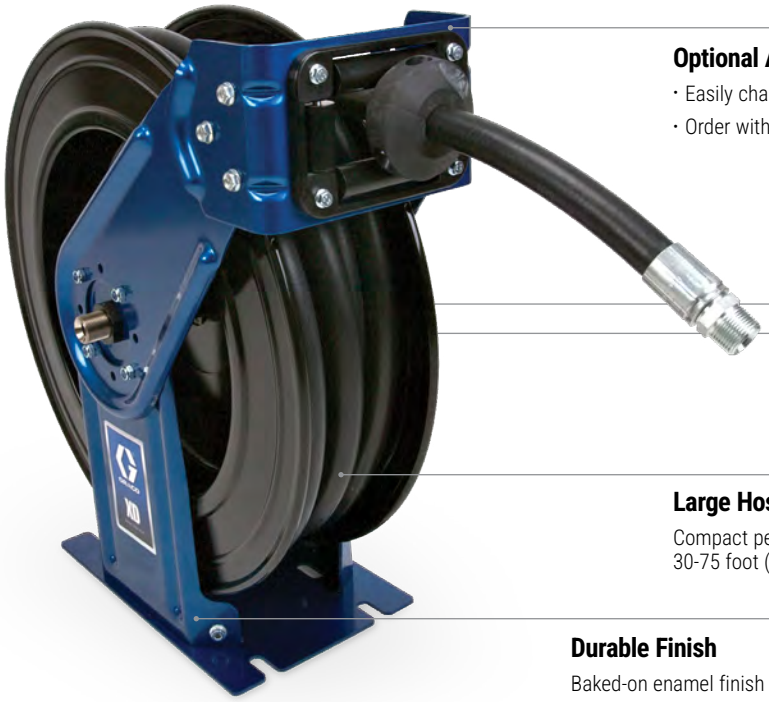
Part Number	Description
180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF

XD SERIES HOSE REELS

30 / 30 HN

HIGH CAPACITY REEL

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



Optional Adjustable Arm

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

Full-Flow Swivel

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

Spring Adjustment

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

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.

Durable Finish

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

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

- 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)

TECHNICAL 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	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
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)

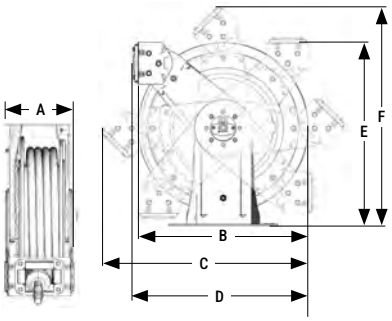
XD SERIES HOSE REELS

30 / 30 HN

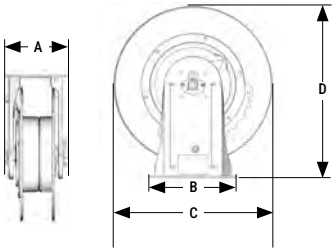
DIMENSIONS

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

HS Models

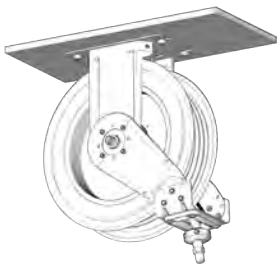


HN Models

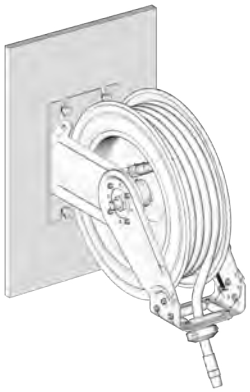


TYPICAL MOUNTING CONFIGURATIONS

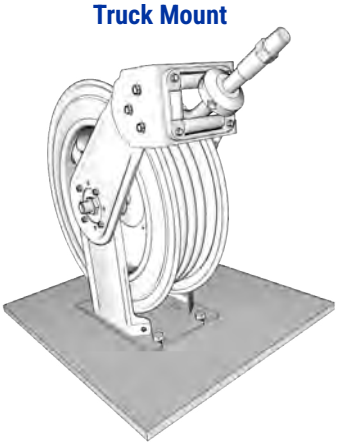
Overhead Mount



Wall Mount



Bench/ Truck Mount



Truck Mount with Remote Mounted Roller Guide

Metallic Blue (B)
Standard In-Stock Color

Available in 3 COLORS
Consult factory for lead times

Yellow (F)

Black (D)

ORDERING OPTIONS

XD 30 Reel Assembly Ordering Guide

XD 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
Metallic Blue	B
Yellow	F
Black*	D

*Black not available in HN models

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

1 **Select your reel position:** HSMD5#

2 **Select your reel color:** (from Reel Assembly Ordering Guide – opposite) Metallic Blue = "B"

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.**

Fluid	Hose (Included)		Connection Size		Maximum Pressure psi (bar)	Reel, Hose and Ball Stop Assembly Part Number	Recommended Hose Inlet Kit
	ID in (mm)	Length ft (m)	Inlet	Outlet			
Air/Water/Antifreeze/ Windshield Washer Fluid	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	HSLC8#	218549
	3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	300 (20.7)	HSLD5#	24E284
Oil	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	1,500 (103)	HSMC8#	218549
	3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	1,250 (86)	HSMD5#	24E284
Grease	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	5,000 (345)	HSHC5#	24E283
	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(F)	5,000 (345)	HSHB7#	24E283
Pressure Wash	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(M)	4,000 (276)	HSPB8#	24E283
DEF	3/4 (19)	50 (15)	3/4 BSPP(M)	3/4 BSPP ORB	50 (3.4)	HSDD5#	24W250 (BSPP)

BARE REELS

Required hose inlet kit sold separately.

Fluid	Hose (Not Included)		Connection Size		Maximum Pressure psi (bar)	Part Number	Recommended Hose Inlet Kit
	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)			
Oil	1/2 (13)	75 (23)	1/2 (13) (m)	1/2 (13) (m)	2,000 (138)	HSMCF#	218549
	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)
Fuel/Oil Evacuation	1 (13)	30 (9)	3/4 (19) (m)	1 (13) (m)	125 (8.6)	HSLEE#	24E285

XD SERIES HOSE REELS

30 / 30 HN

ORDERING OPTIONS

HN MODELS (WITHOUT ADJUSTABLE ARM)

REELS WITH HOSE

Required hose inlet kit sold separately.

Fluid	Hose (Included)		Connection Size		Maximum Pressure psi (bar)	Reel and Hose Assembly Part Number	Recommended Hose Inlet Kit
	ID in (mm)	Length ft (m)	Inlet	Outlet			
Air/Water/Antifreeze/ Windshield Washer Fluid	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	300 (20.7)	HNLC8#	218549
	3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	300 (20.7)	HNLD5#	24E284
Oil	1/2 (13)	75 (23)	1/2 NPSM(M)	1/2 NPT(M)	1,500 (103)	HNMC8#	218549
	3/4 (19)	50 (15)	3/4 NPSM(M)	3/4 NPT(M)	1,250 (86)	HNMD5#	24E284
Grease	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(F)	5,000 (345)	HNHB7#	24E283
Pressure Wash	3/8 (10)	75 (23)	1/2 NPSM(M)	3/8 NPT(M)	4,000 (276)	HNPB8#	24E283
	1/2 (13)	50 (15)	1/2 NPSM(M)	1/2 NPT(M)	4,500 (310)	HNPC5#	24E283

BARE REELS

Required hose inlet kit sold separately.

Fluid	Hose (Not Included)		Connection Size		Maximum Pressure psi (bar)	Part Number	Recommended Hose Inlet Kit
	ID in (mm)	Length ft (m)	Inlet in (mm)	Outlet in (mm)			
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	For 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	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

ORDERING OPTIONS

HOSE INLET KITS

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

Part Number	Description
218549	1/2 in (13 mm) hose inlet kit for air/water and oil. 2,000 psi (137 bar), 1/2 in NPT hose inlet ID, 24 in (610 mm) long
24E284	3/4 in (19 mm) hose inlet kit for air/water and oil. 1,250 psi (86 bar), 3/4 in NPT hose inlet ID, 24 in (610 mm) long
24E283	1/2 in (13 mm) hose inlet kit for grease or pressure wash. 5,000 psi (345 bar), 1/2 in NPT hose inlet ID, 24 in (610 mm) long
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

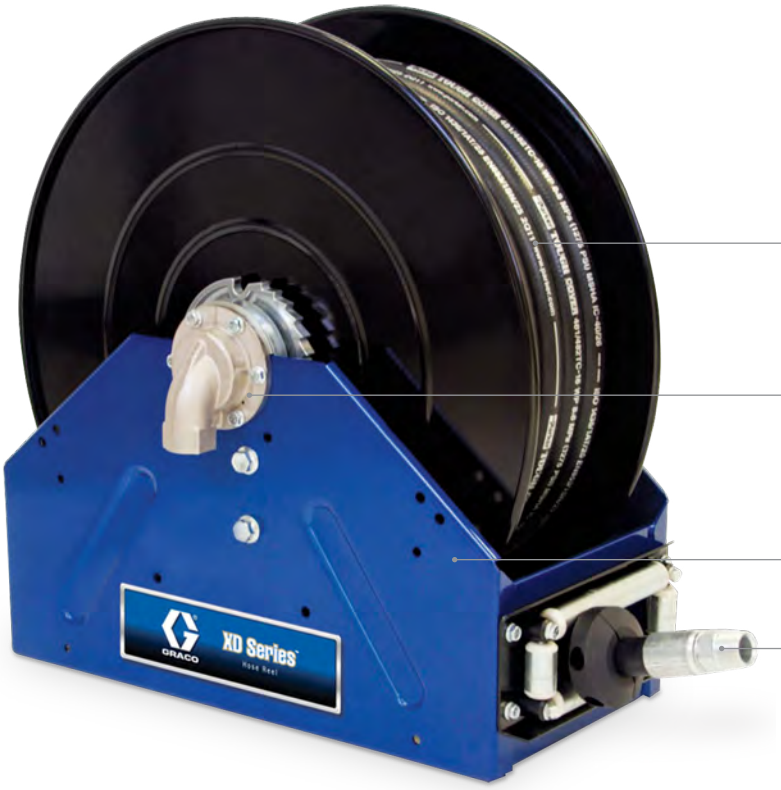
Part Number	Description
180698	Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF

XD SERIES HOSE REELS

40 / 50

BUILT-IN TOUGHNESS

Engineered to take a beating and still reliably perform in harsh environments so it's ready when you need it. Choose from more 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

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Anitfreeze
- Waste oil evacuation

TECHNICAL SPECIFICATIONS

Operating Temperature Range	
Oil Reels – 1 inch	-20°F to 180°F (-28°C to 82°C)
All Other Reels	-40°F to 180°F (-40°C to 82°C)
Wetted Parts	Carbon steel, nickel plated cast iron, Buna-N rubber, FKM UHMWPE
Maximum Recommended Mounting Height	15 ft (4.6 m)
Sound Pressure Level	77.6 dB(A)
Sound Power Level	86.8 dB(A)

*Victaulic is a trademark of Victaulic Company of America.

XD 40 AND XD 50 HOSE REELS

HOW TO SELECT AN XD 40/50 HOSE REEL

2 WAYS TO ORDER!

OPTION 1 – REEL WITH HOSE

(Pages 239-240)

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

OPTION 2 – BARE REEL

(Pages 239-240)

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

CHOOSE YOUR ACCESSORIES (PAGES 241)

HOSE INLET KIT

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

SUPPORT ARM

For additional support, add arm brackets to the reel. Required for overhead mounting applications.

MOUNTING KIT

Overhead mounting options available for XD 40 reels.

HOSE KIT

Large selection of hoses appropriately sized for the hose reels based on type of fluid, hose size and pressure.

HOSE INLET KIT

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

BALL STOP KIT

When the ball stop comes in contact with the hose guide, the hose is prohibited from rewinding.

SUPPORT ARM

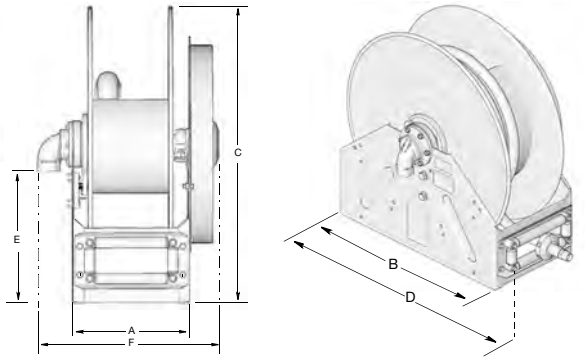
For additional support, add arm brackets to the reel. Required for overhead mounting applications.

MOUNTING KIT

Overhead mounting options available for XD 40 reels.

XD SERIES HOSE REELS

40 / 50



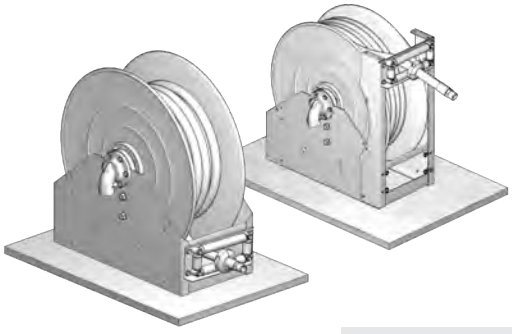
DIMENSIONS

Model	Inlet/Outlet Size NPT(F)	Dimensions in (mm)*					
		A	B	C	D	E	F
XD 4010 – Spring C/D	1 in/1 in	11.83 (300)	24 (610)	26.13 (664)	26.4 (671)	10.91 (277)	16.54 (420)
XD 4010 – Spring A/B	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)

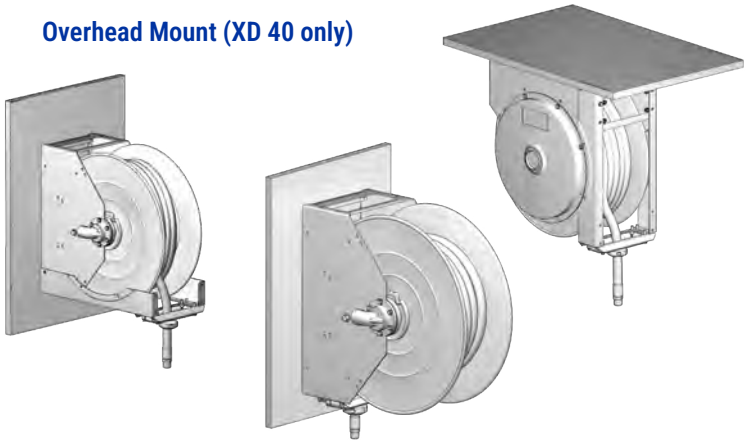
*For complete list of dimensions, see Graco product manual 3A2990.

TYPICAL MOUNTING CONFIGURATIONS

Truck-Bed or Bench Mount

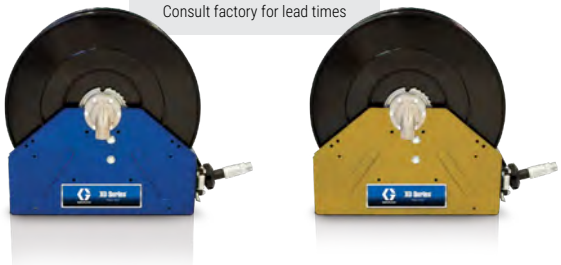


Overhead Mount (XD 40 only)



Available in
2 COLORS
Consult factory for lead times

Standard In-Stock Color:
Metallic Blue



ORDERING OPTIONS

XD 40 REELS WITH HOSE

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

Reel Size	Fluid	Hose		Connection Size		Maximum Pressure psi (bar)	Spring	Truck/ Bench Mount Only	Part Number by Reel Color		Hose Inlet Kit (Order Separately)
		ID in (mm)	Length ft (m)	Inlet NPT(F)	Outlet NPT(M)				Metallic Blue	Yellow	
XD 4010	Air/Water	1/2 (13)	100 (30)	1	1/2	300 (21)	D		24P327	24P328	24R111
		3/4 (19)	75 (23)	1	3/4	300 (21)	D		24P330	24P331	
		1 (25)	50 (15)	1	1	300 (21)	D		24P336	24P337	
	Oil	1/2 (13)	100 (30)	1	1/2	2,000 (138)	A		24P339	24P340	
		3/4 (19)	75 (23)	1	3/4	1,500 (103)	C	•	24P342	24P343	
		3/4 (19)	75 (23)	1	3/4	1,500 (103)	B		24R857	24R859	
		3/4 (19)	100 (30)	1	3/4	1,500 (103)	A		24P345	24P346	
		1 (25)	50 (15)	1	1	1,275 (88)	C	•	24P348	24P349	
	Waste Oil Evacuation	1 (25)	50 (15)	1	1	250 (17)	C		24P351	24P352	24R112
	Diesel Fuel	1 (25)	50 (15)	1	1	250 (17)	C		24P354	24P355	24R115

XD 40 BARE REELS

Reel Size	Fluid	Hose Length Capacity (in x ft (m))			Connection Size		Maximum Pressure psi (bar)	Spring	Truck/ Bench Mount Only	Part Number by Reel Color		Hose Inlet Kit (order separately)
		1/2	3/4	1	Inlet NPT(F)	Outlet NPT(F)				Metallic Blue	Yellow	
XD 4010	Air/Water	–	100 (30)	–	1	1	600 (41)	C		24P317	24P318	24R111
	Oil	–	75 (23)	50 (15)	1	1	2,000 (138)	C	•	24P320	24P322	
		–	75 (23)	50 (15)	1	1	2,000 (138)	B		24R854	24R855	
	Waste Oil Evacuation	–	–	75 (23)	1	1	600 (41)	C		24P317	24P318	24R112
	Diesel Fuel	–	–	50 (15)	1	1	600 (41)	C		24P317	24P318	24R115

REMEMBER TO ORDER!

Ball Stop Kit
See page 241

Support Arm
See page 241

Hose
See page 249-250

Hose Inlet
See page 241

XD SERIES HOSE REELS

40 / 50

ORDERING OPTIONS

XD 50 REELS WITH HOSE

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

Reel Size	Fluid	Hose		Connection Size		Maximum Pressure psi (bar)	Part Number by Reel Color		Hose Inlet Kit (order separately)
		ID in (mm)	Length ft (m)	Inlet NPT(F)	Outlet NPT(M)		Metallic Blue	Yellow	
XD 5010	Air/Water	1 (25)	100 (30)	1	1	300 (21)	24P473	24P474	24R111
	Oil	1 (25)	75 (23)	1	1	1,275 (88)	24P476	24P477	
	Diesel Fuel	1 (25)	100 (30)	1	1	250 (17)	24P488	24P489	24R115
XD 5015**	Waste Oil Evacuation	1-1/4 (32)	50 (15)	1-1/2	1-1/4	200 (14)	24P482	24P483	–
	Diesel Fuel	1-1/2 (38)	50 (15)	1-1/2	1-1/2	150 (10)	24P497	24P498	24R117

**Standard 2 inch Vitaulic®-style groove on inlet.

XD 50 BARE REELS

Reel Size	Fluid	Hose Length Capacity (in x ft (m))			Connection Size		Maximum Pressure psi (bar)	Part Number by Reel Color		Hose Inlet Kit (order separately)
		1	1-1/4	1-1/2	Inlet NPT(F)	Outlet NPT(F)		Metallic Blue	Yellow	
XD 5010	Air/Water	100 (30)	–	–	1	1	600 (41)	24P455	24P456	24R111
	Oil	75 (23)	–	–	1	1	2,000 (138)	24P458	24P459	
	Diesel Fuel	100 (30)	–	–	1	1	600 (41)	24P455	24P456	24R115
XD 5015**	Diesel Fuel	–	50 (15)	–	1-1/2	1-1/2	600 (41)	24P461	24P462	24R117
		–	50 (15)	50 (15)	1-1/2	1-1/2	600 (41)	24P467	24P468	

**Standard 2 inch Vitaulic®-style groove on inlet.

REMEMBER TO ORDER!

Ball Stop Kit
See page 241

Support Arm
See page 241

Hose
See page 249-250

Hose Inlet
See page 241

Victaulic is a trademark of Victaulic Company of America.

XD SERIES HOSE REEL ACCESSORIES

40 / 50

ORDERING OPTIONS

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

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

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

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 design is packed with features to help you work safer, smarter and faster. We demand extensive product testing, often exceeding industry standards to ensure you get the best product on the market.

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.

Easy System Integration

Easily change the inlet and motor direction to give you the option of a right- or left-hand flow orientation.

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.

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

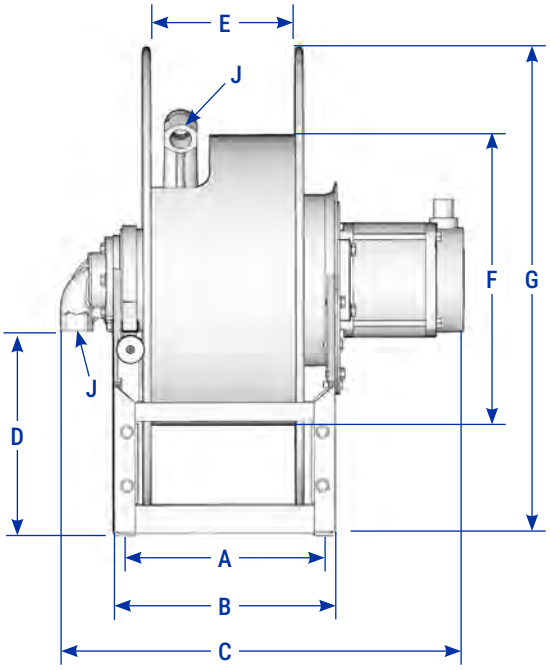
- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Grease
- Waste oil evacuation

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

XD SERIES BARE HOSE REELS

60 / 70 / 80



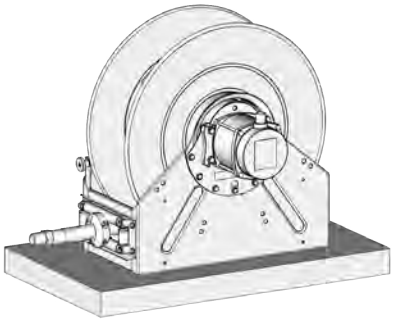
DIMENSIONS

Reference dimension "D" for specific motor type

Model	Inlet/Outlet Size (J) NPT(F)	Dimensions in (mm)								
		A (Mounting Holes)	B	C			D	E	F	G
				Pneumatic	Hydraulic	Electric				
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)	14.3 (363)	22.9 (583)	18.2 (463)	24.1 (611)	10.9 (277)	10 (254)	10 (254)	26.1 (663)
XD 7015	1-1/2 in/ 1-1/2 in	12.95 (329)	14.3 (363)	23.7 (603)	19 (483)	24.8 (631)	10.9 (277)	10 (254)	10 (254)	26.1 (663)
XD 7020	2 in/2 in	12.95 (329)	14.3 (363)	24.1 (613)	19.4 (493)	25.2 (641)	10.2 (259)	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)
XD 8015	1-1/2 in/ 1-1/2 in	20.68 (525)	22.1 (561)	31.4 (799)	26.7 (679)	32.5 (827)	13.4 (340)	18 (457)	15.5 (394)	30.1 (765)
XD 8020	2 in/2 in	20.68 (525)	22.1 (561)	31.9 (809)	27.1 (689)	33 (837)	12.7 (323)	18 (457)	15.5 (394)	30.1 (765)

TYPICAL MOUNTING CONFIGURATIONS

Bench/Trunk Mount



Truck Mount with Remote Mounted Roller Guide

GRACO XD SERIES POWERED HOSE REELS

HOW TO SELECT AN XD POWERED BARE HOSE REEL

A COMPLETE FAMILY OF MOTOR REWIND HOSE REELS

The innovative design of the XD reel family is packed with features to help you work safer, smarter and faster. Direct-drive motor options include hydraulic, pneumatic and electric for air, water, oil, grease, fuel dispense and waste oil evacuation applications. Use this selection chart to configure the XD reel to suit your needs.

REQUIRED

A

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 in (mm)
- ☐ 1/2 (13)
- ☐ 1 (25)
- ☐ 1-1/2 (38)
- ☐ 2 (51)

Hose Length ft (m)
- ☐ 50 (15)
- ☐ 75 (23)
- ☐ 100 (30)
- ☐ 150 (46)

REQUIRED

B

CHOOSE YOUR REEL SIZE

☐ XD 60 ☐ XD 70 ☐ XD 80

REQUIRED

C

SELECT YOUR DRIVE TYPE AND FRAME

Motors must be purchased separately.

☐ Order Reel and Motor Separately (Page 246)

- ☐ Pneumatic Motor
- ☐ Hydraulic Motor
- ☐ Electric Motor ☐ 12 VDC, 1/2 HP ☐ 12 VDC, 2/3 HP ☐ 24 VDC, 1/2 HP ☐ 24 VDC, 2/3 HP ☐ 115 VAC, 0.40 HP

REQUIRED

D

CHOOSE YOUR CONTROLS (Pages 246-247)

☐ **Pneumatic Motor**
- ☐ Pneumatic 2-position, 3-way valve

☐ **Hydraulic Motor**
- ☐ 12 VDC electric control of hydraulic motor, 3-position, 4-way valve
- ☐ 12 VDC electric control of hydraulic motor with switch, 3-position, 4-way valve
- ☐ 24 VDC electric control of hydraulic motor, 3-position, 4-way valve
- ☐ 24 VDC electric control of hydraulic motor with switch, 3-position, 4-way valve

☐ **Electric Motor**
- ☐ Hazardous location on/off button
- ☐ 12 VDC intermittent-duty solenoid
- ☐ 24 VDC intermittent-duty solenoid
- ☐ Manual reset button circuit breaker (25 or 50 amp)

REQUIRED FOR INSTALLATION

E

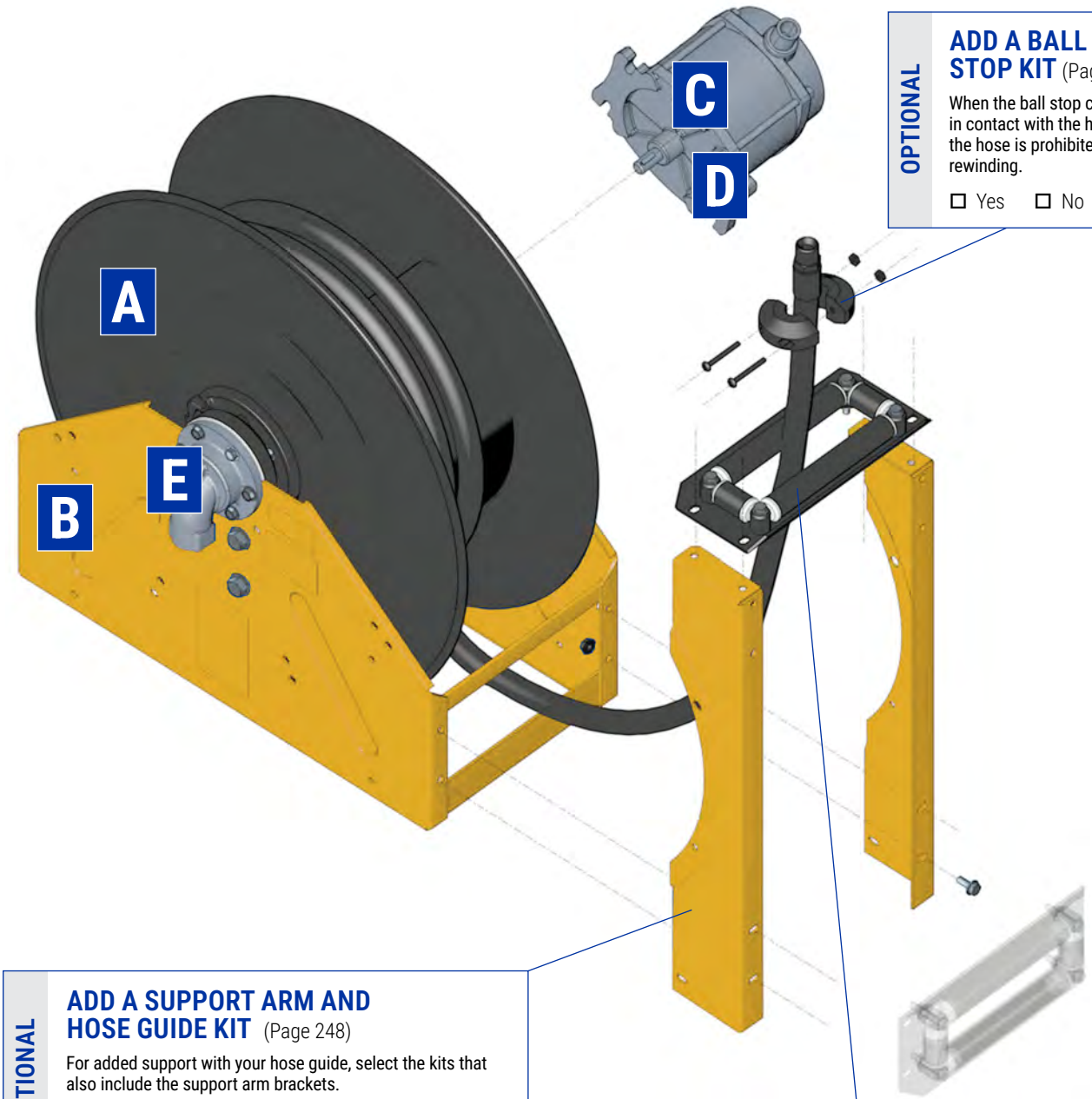
HOSE INLET KIT

(Page 248)

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)



OPTIONAL

ADD A BALL STOP KIT (Page 248)

When the ball stop comes in contact with the hose guide, the hose is prohibited from rewinding.

☐ Yes ☐ No

OPTIONAL

ADD A SUPPORT ARM AND HOSE GUIDE KIT (Page 248)

For added support with your hose guide, select the kits that also include the support arm brackets.

☐ Support Arms and Standard Roller Guide

☐ Support Arms and Fixed, Stainless Steel Hose Guide

OPTIONAL

ADD A HOSE GUIDE KIT (Page 248)

Select between a fixed, stainless steel hose guide or a general roller guide.

Hose guide mounts directly to the reel frame or in three different positions on the support arm.

☐ Standard Roller Guide

☐ Fixed, Stainless Steel Hose Guide

XD SERIES BARE HOSE REELS

60 / 70 / 80

ORDERING OPTIONS

REEL FRAMES ONLY

XD 60 / XD 70 / XD 80 REELS

Motor is not included and must be purchased separately.

Reel Size	Fluid	Hose Capacity of Reel ft (m) Hose ID in (mm) 1/2 (13)	3/4 (19)	1 (25)	1-1/2 (38)	2 (51)	Maximum Pressure psi (bar)	Weight lb (kg)	Inlet/Outlet Size NPT(F)	Part Number
XD 6010	Air/Water/ Diesel Fuel	100 (30)	100 (30)	50 (15)	–	–	600 (41)	87 (39)	1 in/1 in (25 mm/25 mm)	24T105
	Oil	100 (30)	100 (30)	50 (15)	–	–	3,000 (207)	88 (40)		24T108
	Waste Oil Evacuation	–	–	50 (15)	–	–	600 (41)	87 (39)		24T105
	Grease	–	–	50 (15)	–	–	3,000 (207)	88 (40)		24T108
XD 7010	Air/Water/ Diesel Fuel	–	–	100 (30)	–	–	600 (41)	86 (39)		24T111
	Oil	–	–	100 (30)	–	–	3,000 (207)	87 (39)		24T114
XD 8010	Air/Water/ Diesel Fuel	–	–	150 (46)	–	–	600 (41)	127 (58)		24T123
	Oil	–	–	150 (46)	–	–	3,000 (207)	129 (58)		24T126
XD 7015	Waste Oil Evacuation	–	–	–	50 (15)	–	600 (41)	87 (39)	1-1/2 in/ 1-1/2 in (38 mm/38 mm)	24T117
	Diesel Fuel	–	–	–	65 (20)	–	600 (41)	87 (39)		24T117
XD 8015		–	–	–	100 (30)	–	600 (41)	129 (58)		24T129
XD 7020		–	–	–	–	33 (10)	600 (41)	91 (41)	2 in/2 in (51 mm/51 mm)	24T120
XD 8020		–	–	–	–	50 (15)	600 (41)	133 (60)		24T132

MOTOR ASSEMBLIES – PAIR WITH FRAME-ONLY MODELS

	Part Number	Description
	24T892	Pneumatic motor assembly, reversible type. For installing motor to bare XD reel.
	24T891	Hydraulic motor assembly, reversible type. For installing motor to bare XD reel.
	24T886	12 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame.
	24T910	12 VDC, 2/3 HP motor assembly, reversible type. For installing motor to bare XD frame.
	24T888	24 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame.
	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.

REMEMBER TO ORDER!

Ball Stop Kit See page 248	**Hose Guide** See page 248	**Support Arm** See page 248	**Hose** See page 249-250	**Hose Inlet** See page 248

XD SERIES BARE HOSE REEL ACCESSORIES

ORDERING OPTIONS

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.
	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.
	127223	Hazardous-location push-button on/off switch. Use for 115 and 220 VAC.
	127218	Hazardous-location junction box
	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

XD SERIES BARE HOSE REEL ACCESSORIES

ORDERING OPTIONS

BALL STOP KITS

Part Number	Description
237873	Ball stop kit used for 3/4 in (19 mm) hose
237874	Ball stop kit used for 1 in (25 mm) hose
24R060	Ball stop kit used for 1.25 in (32 mm) hose
24R061	Ball stop kit used for 1.5 in (38 mm) hose

HOSE GUIDE

Part Number	Description
24T327	Stainless steel hose guide for XD 60
24T328	Stainless steel hose guide for XD 70
24T329	Stainless steel hose guide for XD 80
24R072	Roller guide kit with bracket for XD 40 and XD 60
24T330	Roller guide kit with bracket for XD 70
24T331	Roller guide kit with bracket for XD 80

SUPPORT ARM KIT WITH HOSE GUIDE

Part Number	Description
24T332	Arm kit with stainless steel hose guide for XD 60 (24T327)
24T333	Arm kit with stainless steel hose guide for XD 70 (24T328)
24T334	Arm kit with stainless steel hose guide for XD 80 (24T329)
24T335	Arm kit with roller guide for XD 60 (24R072)
24T336	Arm kit with roller guide for XD 70 (24T330)
24T337	Arm kit with roller guide for XD 80 (24T331)

HOSE INLET KITS

Part Number	Description
24R111	1 in (25 mm) hose inlet kit for air/water and oil 1,275 psi (88 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
24R112	1 in (25 mm) hose inlet kit for waste oil evacuation 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
24R115	1 in (25 mm) hose inlet kit for diesel fuel 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long
24R117	1-1/2 in (38 mm) hose inlet kit for diesel fuel 150 psi (10 bar), 1-1/2 in NPT hose inlet ID, 28 in (710 mm) long
24R118	2 in (51 mm) hose inlet kit for diesel fuel 150 psi (10 bar), 2 in NPT hose inlet ID, 28 in (710 mm) long
24T858	1-1/2 in (38 mm) hose inlet kit for waste oil evacuation 150 psi (10 bar), 1-1/2 in NPT hose inlet ID, 28 in (710 mm) long

SELF-ADHESIVE IDENTIFICATION LABEL SET

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 REEL ACCESSORIES

ORDERING OPTIONS

AIR/WATER/ANTIFREEZE HOSES

Part Number	Description	Compatible Reel Series
16A684	1/2 in x 75 ft (13 mm x 23 m) hose for air/water, 300 psi (20.6 bar)	XD 30
126359	1/2 in x 100 ft (13 mm x 30 m) hose for air/water, 300 psi (20.6 bar)	XD 40, XD 60
16A707	3/4 in x 50 ft (19 mm x 15 m) hose for air/water, 300 psi (20.6 bar)	XD 30
126360	3/4 in x 75 ft (19 mm x 23 m) hose for air/water, 300 psi (20.6 bar)	XD 40
126361	3/4 in x 100 ft (19 mm x 30 m) hose for air/water, 300 psi (20.6 bar)	XD 40, XD 60
126362	1 in x 50 ft (25 mm x 15 m) hose for air/water, 300 psi (20.6 bar)	XD 40, XD 60
126363	1 in x 75 ft (25 mm x 23 m) hose for air/water, 300 psi (20.6 bar)	XD 50
126364	1 in x 100 ft (25 mm x 30 m) hose for air/water, 300 psi (20.6 bar)	XD 50, XD 70

OIL HOSES

Part Number	Description	Compatible Reel Series
26C121	1/2 in x 35 ft (13 mm x 11 m) hose for oil, 2,000 psi (138 bar)	SDX 10, XDX 10
26C122	1/2 in x 50 ft (13 mm x 15 m) hose for oil, 2,000 psi (138 bar)	SDX 20, XDX 20
26C123	1/2 in x 75 ft (13 mm x 23 m) hose for oil, 2,000 psi (138 bar)	XD 30
26C124	1/2 in x 100 ft (13 mm x 30 m) hose for oil, 2,000 psi (138 bar)	XD 40, XD 60
126376	3/4 in x 75 ft (19 mm x 23 m) hose for oil, 1,500 psi (103 bar)	XD 40, XD 60
126377	3/4 in x 100 ft (19 mm x 30 m) hose for oil, 1,500 psi (103 bar)	XD 40, XD 60
126503	1 in x 50 ft (25 mm x 15 m) hose for oil, 3,000 psi (207 bar)	XD 40, XD 60
126504	1 in x 75 ft (25 mm x 23 m) hose for oil, 3,000 psi (207 bar)	XD 50
126505	1 in x 100 ft (25 mm x 30 m) hose for oil, 3,000 psi (207 bar)	XD 70, XD 80

GREASE HOSES

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
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

HOSE REEL ACCESSORIES

ORDERING OPTIONS

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
24T252	1 in x 150 ft (25 mm x 46 m) hose for diesel fuel, 250 psi (17 bar)	XD 80
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

FLUID RECLAIM EQUIPMENT

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GRACO

OIL KING™

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.

Large 25-Gallon (94.6 l) Capacity Receiver

- Made from a heavy-duty, durable UV stabilized polymer.
- Dent-, rust- and corrosion-resistant.

Liquid Sight Gauge

A full-length liquid level sight gauge lets you know when the tank is full.

Two Evacuation Port Options

Choose from the gravity drain valve at the bottom or suction evacuation at the top.

Oversized Tires

Easily maneuver over hose and rough floors.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Used oil

TECHNICAL SPECIFICATIONS

Fluid	Used Oil
Fluid Capacity	25 gal (95 l)
Evacuation	Bottom – Gravity / Top – Suction
Receiver Material	Polyethylene
Length	24 in (60 cm)
Width	24 in (60 cm)
Height	45 to 72 in (1.1 to 1.8 m)
Funnel Size	22 x 24 in (50 x 56 cm)
Dry Weight	54 lb
Instruction Manual	308667

ORDERING OPTIONS

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.

COOLANT KING™

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.

Large 25-Gallon (94.6 l) Capacity Receiver

- Made from a heavy-duty, durable UV stabilized polymer.
- Dent-, rust- and corrosion-resistant.
- Color-specific for easy identification.

Liquid Sight Gauge

A full-length liquid level sight gauge lets you know when the tank is full.

Two Evacuation Port Options

Choose from the gravity drain valve at the bottom or suction evacuation at the top.

Oversized Tires

Easily maneuver over hose and rough floors.

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Used oil

TECHNICAL 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 OPTIONS

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.

OIL ACE™ DRAIN

PRESSURIZED OIL DRAIN

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

Large Offset Collection Pan

23 inch (58 cm) diameter offset collection bowl gives you a 31 inch (79 cm) total reach.

Superior Maneuverability

Wider and thicker handle for comfort.

Easy to Drain

Pressurize using shop air for easy oil evacuation.

Large 24-Gallon (90 l) 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

- Used oil

TECHNICAL SPECIFICATIONS

Fluid	Used oil
Fluid Capacity	24 gallon (90 l)
Evacuation	Pressurized
Receiver Material	Steel
Length	24 in (61 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 OPTIONS

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

OIL ACE® – USED OIL EVACUATION

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 reduces the threat of costly damages caused by over- or under-torquing or cross-threading drain plugs.

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.

26C064

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 l) 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

- Used oil

TECHNICAL 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

OIL ACE® – USED OIL EVACUATION

ORDERING OPTIONS

	Part Number	Description
	26C061	24 gal (90 l) steel tank with suction probes and adapters
	26C062	24 gal (90 l) steel tank with suction probes, adapters and sight glass
	26C063	24 gal (90 l) steel tank with suction probes, adapters and oil drain funnel
	26C064	24 gal (90 l) steel tank with suction probes, adapters, sight glass and oil drain funnel

16-GALLON MOBILE RECEIVER

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- 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 OPTIONS

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.

BIG HAULER™ TRUCK DRAIN

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

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Antifreeze
- Used oil

ORDERING OPTIONS

Part Number	Description
244055*	Big Hauler truck drain specially designed for truck maintenance facilities

*Use with evacuation kit 224873 or 24E166. 240832 can be ordered separately for existing diaphragm pump evacuation systems.

TRACK RECEIVERS

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

TYPICAL APPLICATIONS

- Fast lube centers
- Fleet services facilities

TYPICAL FLUIDS

- Used oil

ORDERING OPTIONS

Part Number	Description
218969	Specially designed for car and truck fast lube facilities where speed and mobility are important. Adjustable steel rollers fit track widths.
235346	Narrow rolling used-oil receiver, specially designed for car and truck fast lube facilities where speed and mobility are important. Adjustable steel rollers fit track widths. Same as 218969 except track width range.

DIAPHRAGM EVACUATION PUMPS

TYPICAL APPLICATIONS

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

TYPICAL FLUIDS

- Used oil

Husky 1050

Husky 716

TECHNICAL 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 OPTIONS

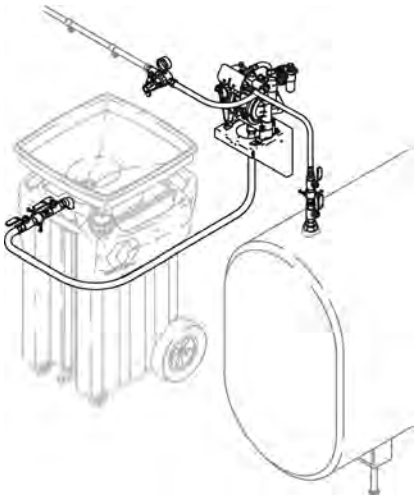
Part Number	Description
241906	Husky 716 Evacuation Pump
647731	Husky 1050 Evacuation Pump

EVACUATION PUMP PACKAGES

ORDERING OPTIONS

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	UL, CE	UL, CE	–



Package 224873 installed on Oil King and tank (neither included in package).

ORDERING OPTIONS

BASE PUMP PACKAGES

System evacuates lube from differential case using suction generated by a diaphragm pump. Nylon tubes ranging in size from 3/16 in OD to 1/2 in OD are included to fit through sight plug to completely drain the case. Evacuated gear lube is then pumped to waste tank. Piping and waste tank not included. Systems are fully groundable and bondable for safe transfer of used oil.

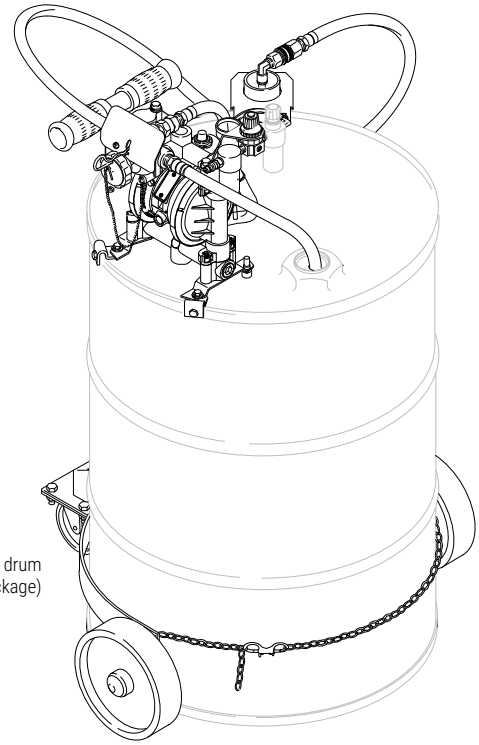
Package Number	224955	24E167	223695
Diaphragm Pump	716 (3/4 in)	1050A (1 in)	716 (3/4 in)
Pump Part Number	241906	647731	241906
Mounting Type	Base	Wall Bracket	Cart Hanger Bracket
Mounting Bracket/Kit	–	24C637	223697
Fluid	Gear Lube	Gear Lube	Gear Lube
Evacuation	Suction Wand	Suction Wand	Suction Wand
Evacuation Part Number	221146	221146	223696
Air Control Kit	110149	221147	–
Instruction Manual	308573	313597	308035 / 308573
Listings	CE	UL, CE	–
Notes	Order additional suction hose/ wand (221146) and additional control valve (220969) for each additional suction point. Order grounding clamp (222011) or use locally supplied grounding wires and clamps in accordance with applicable codes.	Order additional suction hose/ wand 221146 and additional control valve 220969 for each additional suction point. Order grounding clamp 222011 or use locally supplied grounding wires and clamps in accordance with applicable codes. See instruction manual 313597 for more information.	–

EVACUATION PUMP PACKAGES

ORDERING OPTIONS

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



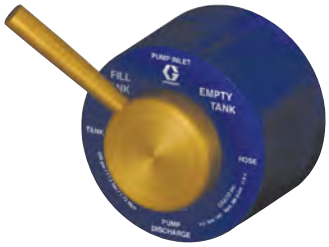
Package 224701 installed on oil drum
(Drum and filter regulator not included in package)

FLUID RECLAIM ACCESSORIES

ORDERING OPTIONS

4-WAY EVACUATION VALVE

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

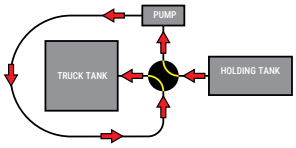


Features and Benefits

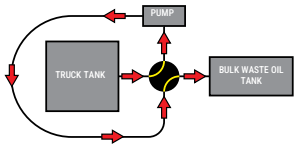
- Simplifies installation by eliminating need for multiple valves
- Unrestricted flow – no pressure or volume loss
- Two-position tank fill and emptying control
- Tapered, self-seating valve spool for superior sealing performance

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/HOLDING TANK



LUBE TRUCK/BULK WASTE TANK



AIR REGULATORS

Provides precision control of outlet air pressure. Feedback principle provides constant pressure to pump regardless of air demand rate and fluctuations in supply pressure. Additional fittings required (except air regulators with installation kits).

	Part Number	Description
	110318	1/4 NPT(FBE)
	110147	1/4 NPT(FBE) with gauge
	110234	3/8 NPT(FBE)
	109075	3/8 NPT(FBE) with gauge
	202858	3/8 NPT(M) x 1/2 NPSM(F) with gauge
	104266	1/2 NPT(FBE)
	244844	1/2 NPT(FBE) with gauge
	207755	3/4 NPT(FBE)
	244845	3/4 NPT(FBE) with gauge

FLUID RECLAIM ACCESSORIES

ORDERING OPTIONS

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.
	106148	3/8 NPT(FBE) Air Filter. Auto-drain.
	106149	1/2 NPT(FBE) Air Filter. Manual drain.
	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

ORDERING OPTIONS

ADDITIONAL ACCESSORIES

	Part Number	Description
	221146	10 ft (3.04 m) suction hose and quick coupler with four interchangeable 15 in (38.1 cm) suction wands. OD options: 3/16 in, 1/4 in, 3/8 in, 1/2 in. For use with Husky 716 or 1050 gear oil evacuation systems.
	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.
	224666	36 in suction wand storage kit
	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.
	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.
	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

ACCESSORIES

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AIR REGULATORS AND VALVES

ORDERING OPTIONS

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	140 psi (9.65 bar)
133216	1/4 in NPT(MBE)	63 cfm (1,800 lpm)	Automatic	
133217	3/8 in NPT(MBE)	77 cfm (2,200 lpm)	Automatic	
133545	1/2 in NPT(MBE)	106 cfm (3,000 lpm)	Automatic	
133546	3/4 in NPT(MBE)	149 cfm (4200 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).

Thread	1/4 in	3/8 in	1/2 in	3/4 in
NPT(FBE)	110223	110224	110225	110226
NPT(MXF) inlet x outlet	–	113333	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

AIR VALVES

ORDERING OPTIONS

AIR NEEDLE VALVE

Controls pump speed by restricting air flow to pump or other air-operated equipment.

Part Number	Inlet	Outlet
205090	1/4 in NPSM(M)	1/4 in NPSM(F)
206264	1/4 in NPT(M)	1/8 in NPT(F)
205528	1/8 in NPT(M)	1/8 in NPT (F)

AIR PRESSURE RELIEF VALVE

Prevents pump from operating beyond recommended working pressure by opening at a pre-set maximum air pressure.

Part Number	Maximum Pressure Rating	Thread
110065	60 psi (4 bar)	1/4 in NPT(M)
103347	100 psi (6.9 bar)	1/4 in NPT(M)

AIR PRESSURE GAUGE

Allows visual check of air pressure being supplied to the pump. Rated to 200 psi (14 bar)

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
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
224040	3/4 in NPT(FBE)

HOSE FITTINGS

ORDERING OPTIONS

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

	Part Number	Description	Includes			
			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
	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
	180685	1/4 in NPT(F)	100 psi (7 bar)

LUBRICATION HOSES

ORDERING OPTIONS

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 (mm)	Max PSI (bar)	Hose Length	Fitting		Part Number
			End 1 Thread NPT(M)	End 2 Thread NPT(M)	
1/4 (6.44)	5,000 (345)	12 in (0.3 m)	1/8	1/8	109145
		30 in (0.8 m)			109148
		24 in (0.8 m)	3/8	3/8	109147
		48 in (1.2 m)	1/4	1/4	109149
		72 in (1.8 m)			109150
		12 ft (3.6 m)			109151
		15 ft (4.6 m)			109152
		20 ft (6.1 m)		3/8	109153
		25 ft (7.6 m)		1/4	109154
		35 ft (10.6 m)		3/8	109156
		40 ft (12.2 m)			109157
		50 ft (15.3 m)			109158
3/8 (9.5)	4,000 (276)	12 in (0.3 m)	1/4	1/2	109160
		24 in (0.62 m)	3/8	3/8	109161
		48 in (1.2 m)			109162
		72 in (1.8 m)			109163
		15 ft (4.6 m)	1/4	1/4	109165
		40 ft (12.2 m)		3/8	109169
		50 ft (15.3 m)			109170
1/2 (12.7)	3,000 (207)	15 in (0.4 m)	1/2	1/2	110069
		18 in (0.5 m)			220598
		54 in (1.4 m)			220600
		72 in (1.8 m)			220591
		10 ft (3.1 m)			220590
		16 ft (4.9 m)			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
3/4 (19.1)	2,250 (155)	18 in (0.4 m)	3/4	3/4	109108
		72 in (1.8 m)			109105
		10 ft (3.0 m)			111010

AIR/WATER HOSES

ORDERING OPTIONS

AIR/WATER HOSES

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

ID Inch (mm)	Max PSI (bar)	Hose Length	Fitting		Part Number
			End 1 Thread NPT(M)	End 2 Thread NPT(M)	
Fabric-Reinforced 1/4 (6.44)	180 (12.4)	18 in (0.5 m)	1/4	1/4	109123
		4 ft (1.2 m)			109124
		6 ft (1.8 m)			109125
		10 ft (3.1 m)			109126
		25 ft (7.6 m)		1/2	109127
		40 ft (12.2 m)			109128
		40 ft (12.2 m)	3/8	1/4	218491
3/8 (9.5)	180 (12.4)	18 in (0.5 m)	3/8	3/8	204560
		4 ft (1.2 m)			109130
		6 ft (1.8 m)			203320
		10 ft (3.1 m)			109131
		16 ft (4.9 m)	1/4	3/8	110326
		25 ft (7.6 m)	3/8	1/2	109132
		40 ft (12.2 m)			109134
		60 ft (18.3 m)			109135
1/2 (12.7)	180 (12.4)	22 in (0.56 m)	1/2	1/2	218093
		4 ft (1.2 m)			110046
		6 ft (1.8 m)			205418
		10 ft (3.1 m)			214656
1/2 (12.7)	300 (20.7)	25 ft (7.6 m)	1/2	1/2	248312
		50 ft (15.2 m)			248313
3/4 (19.1)	180 (12.4)	18 in (0.5 m)	3/4	3/4	110047
		4 ft (1.2 m)			15B554
		6 ft (1.8 m)			208610
		10 ft (3.1 m)			214955
		25 ft (7.6 m)			208611

QUICK-CONNECT FITTINGS

ORDERING OPTIONS

QUICK-CONNECT COUPLER

Permits quick, convenient attachment of air supply hoses.

Part Number	Inlet	Body Size
208536	1/4 in NPT(F)	1/4 in
110198	3/8 in NPT(F)	1/4 in
110199	1/2 in NPT(F)	3/8 in
110200	3/4 in NPT(F)	1/2 in

QUICK-CONNECT NIPPLE

Allows quick attachment of air supply hoses to pump motor.

Part Number	Inlet	Body Size
169967	1/4 in NPT(F)	1/4 in
169970	1/4 in NPT(M)	1/4 in
169971	3/8 in NPT(M)	1/4 in
110196	1/2 in NPT(M)	3/8 in
110197	3/4 in NPT(M)	1/2 in

ADAPTERS AND FITTINGS

ORDERING OPTIONS

BUSHINGS AND PIPE ADAPTERS – REDUCING, STANDARD AND EXPANDING

Outlet	Inlet					
	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				
	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 OPTIONS

SQUARE HEAD PLUG

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

SWIVEL ADADPTERS*

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	114030
	3/8 in	157705	–	–	–	–
3/8 in	1/4 in	–	159153	–	155495	–
	3/8 in	155665	156173	155677	155494	161889
	1/2 in	162505	–	159801	217430	–
1/2 in	1/4 in	–	155653	–	–	–
	3/8 in	158256	161077	–	161037	–
	1/2 in	156684	155865	157416	155470	222297
3/4 in	3/4 in	157785	156172	156589	160327	105281
1 in	3/4 in	202965	–	–	–	–
	1 in	160022	158383	–	–	–

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

TUBE 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
	Straight Tube Union	–	101009	101340
	Male Connector	3/4 in NPT	–	101339
	Straight Female Connector	1/2 in NPT	101008	–
	Tube Tee with Female Branch	5/8 in NPT	101013	–

GRACO EQUIPMENT WARRANTY

STANDARD GRACO WARRANTY

1-YEAR WARRANTY POLICY

Graco warrants all equipment manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve (12) months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective.

This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations. This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges 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, hose, 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 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 EXTENDED WARRANTY (CONT.)

	Products	Warranty Period
	Oil King, Coolant King, and Oil Ace	5 Years
	Pulse Fluid Management Hubs, TLMs, PACs and Extenders	2 Years
REELS	**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
	SDX Series Hose Reels	7 Years
	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
METERS	**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
	Wear parts, including but not limited to o-rings, seals and valves	1 Year
	SD Meters and Valves	5 Years
	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
PUMPS	**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
	Mini Fire-Ball 225 and Fire-Ball 300 Oil and Grease Pumps	7 Years
	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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