



Vehicle Service Equipment Buyer's Guide

Fluid Handling Equipment for Industrial and Commercial Applications



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

PROVEN QUALITY. LEADING TECHNOLOGY.

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OIL DISPENSE METERS



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Graco Dispense Meters

	Fluid	Manual/ Preset	Maximum Working Pressure	Maximum Flow Rate	Intended Use	Warranty	Reference Pages
 <p>LDP5 Electronic Preset Meters</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	Preset	1,000 psi (69 bar)	5 gpm (19 lpm)	Indoor	5 years overall (2 years electronics)	89-91
 <p>EM Series Electronic Meters</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	Manual	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	5 years overall (3 years electronics)	92-94
 <p>PM Series Electronic Meters</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	Preset	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	5 years overall (3 years electronics)	95-97
 <p>SD Series Electronic Meters</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	Manual/ Preset	1,500 psi (103.4 bar)	14 gpm (53 lpm)	Indoor/ Limited Outdoor	7 years overall (3 years electronics)	98-100
 <p>IM20 In-Line Meters</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	In-Line	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	5 years overall (3 years electronics)	101
 <p>IM20P In-Line Meter</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	In-Line	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	1 year	102
 <p>SDI15 In-Line Meters</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze Diesel exhaust fluid 	In-Line	1,500 psi (103.4 bar)	15 gpm (56.8 lpm)	Indoor	7 years overall (3 years electronics)	103
 <p>Mechanical Meters</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	Manual/ Preset	1,500 psi (103.4 bar)	8 gpm (30 lpm)	Indoor/ Outdoor	5 years	104-106
 <p>SDV15 Control Valves</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	N/A	1,500 psi (103.4 bar)	15 gpm (56.8 lpm)	Indoor/ Outdoor	7 years	107-108
 <p>XDV20 Control Valves</p>	<ul style="list-style-type: none"> Petroleum- and synthetic-based oils (motor, gear and ATF) Antifreeze 	N/A	1,500 psi (103.4 bar)	20 gpm (76 lpm)	Indoor/ Outdoor	7 years	109-110



Perfect for Lower-Volume Service Applications

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

Up to
5 gpm
(19 lpm)

Easy-to-Read LCD Screen

Keeps dispenses precise.

Operator Controls

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

Fluid Extension Kits

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

Rugged Meter Body

Superior impact resistance and long life.

Comfortable Handle

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

Fluid Swivel

1/2 inch fluid inlet.

Typical Applications

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

Typical Fluids Handled

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

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.

Ordering Information

LDP5 Electronic Preset Meters

Automatic nozzle included



	Extension	Inlet in (mm)	Part Number	Package Includes	
				Trigger Guard	Swivel Cover
	Flexible		258694	Yes	Yes
	Rigid	1/2 (13)	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 Information

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
	191289	Green
	191295	Yellow



**Up to
20 gpm**
(76 lpm)

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.

High-Flow Rates

Capable of up to 20 gpm.

Long Battery Life

Features upgraded electronics and easily replaceable AAA batteries.

Prevent Accidental Dispenes

Easy-to-hold locking handle.

Proven in Harsh Conditions

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

Legacy Valve

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



Typical Applications

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

Typical Fluids Handled

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

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	13 in L x 3.5 in W x 5.25 in H (33 cm L x 9 cm W x 13.3 cm H)	
Weight	3 lbs (1.36 kg)	3.1 lbs (1.39 kg)
Warranty	Five years overall, three years electronics and 1 year wear parts	
Instruction Manual	3A5588	

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



EM[®] Series Electronic Manual Dispense Meters

Ordering Information








		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)
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

Oil Dispense Meters and Control Valves

Ordering Information

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



**5-Year
Warranty!**

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 Battery Life

Features four easily-replaceable AA batteries.

Long-Life Valve Design

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

High Flow Rates

Capable of up to 20 gpm (75.7 lpm).

Easy Valve Operation

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

Durable Cast Body

Designed for heavy-duty and harsh applications.



Typical Applications

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

Typical Fluids Handled

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

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	14.25 in L x 4.1 in W x 7.2 in H (36.2 cm L x 10.4 cm W x 18.3 cm H)	
Weight	5.2 lbs (2.4 kg)	
Warranty	Five years overall, three years electronics and 1 year wear parts	
Instruction Manual	3A8307	

*Lithium ion batteries are required if operating below 0°F (-18°C). **Tested in 10W oil at 70°F (21°C). Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type. Geolast is a registered trademark of Advanced Elastomer Systems.

PM™ Series Electronic Preset Dispense Meters



Ordering Information

		Fluid	Extension	Flow Range gpm (lpm)	Inlet in (mm)	Part Number	
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)
3/4 (19)				273168			
		Rigid		1/2 (13)	273165		
				3/4 (19)	273167		

Oil Dispense Meters and Control Valves



Ordering Information

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



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.

Up to
18 gpm
(68 lpm)

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 Handled

- 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)	13 in L x 3.75 in W x 5.75 in H (33 cm x 9.5 cm x 14.6 cm)
Weight	5.3 lb (2.4 kg)
Warranty	Five years overall, three years electronics
Instruction Manual	3A6711 and 3A6673

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

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

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



Ordering Information

SD Electronic Meters



	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
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
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

Oil Dispense Meters and Control Valves

Ordering Information

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

Impact Protection

	Part Number	Description
	131226	Pulse/SD meter boot

goind.com.au



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.

Up to
20 gpm
(76 lpm)

Easy-to-Read LCD

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

Easy Battery Replacement

Long-lasting, replaceable AAA batteries.



Sealed Electronics

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

Tracks Totals in Two Modes

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

Typical Applications

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

Typical Fluids Handled

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

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	4.2 in L x 3.4 in W x 3.2 in H (10.7 cm L x 8. cm W x 8.1 cm H)
Weight	1 lb. 4 oz. (0.57 kg)
Warranty	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 Information

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

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

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

High Flow

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

Sealed Electronics

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

Rugged Aluminum Body

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

Wired Convenience

Easily integrated with PLC (programmable logic controller).

Large Inlet and Outlet Porting

Minimal pressure drop to increase production.



Oil Dispense Meters and Control Valves

Typical Applications

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

Typical Fluids Handled

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

Ordering Information

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

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	5.8 in L x 3.4 in W x 2.9 in H (14.7 cm L x 8.6 cm W x 7.4 cm H)
Weight	1.3 lb (0.59 kg)
Warranty	One year
Instruction Manual	3A8625

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



SDI15 In-Line Electronic Meter

Up to
15 gpm
(57 lpm)



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 Handled

- 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 Information

Meters

Part Number	Description
247453	SDI15 medium/high pressure – medium-/high-flow in-line meter for petroleum- and synthetic-based oils, antifreeze and windshield washer fluid
246738	SDI15 medium/high pressure – medium-/high-flow in-line meter for diesel exhaust fluid applications (BSPF)

Accessories

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



Accurate Dispensing for a Wide Variety of Vehicle or Machine Service Applications

Ideal for indoor or outdoor use in all size shops.

Up to
8 gpm
(30.2 lpm)

Impact-Resistant Shroud

Resists scratches and protects knob and dial from damage.

Simple, Easy Design

Dial and face design is easy to read and set.

Fluid Swivel

1/2 inch fluid inlet.

Fluid Extension Kits

Choose from rigid or flexible with automatic thermal compensating nozzle.

Built-In Totalizer

Helps manage material usage.

Durable Cast Housing

Durable aluminum body is balanced and lightweight with comfortable grip.

Typical Applications

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

Typical Fluids Handled

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- 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	11.5 in L x 5 in W x 6.3 in H (29.2 cm L x 12.7 cm W x 16 cm H)
Weight	3.5 lb (1.6 kg)
Warranty	Five years
Instruction Manual	333492




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

Ordering Information


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	

Ordering Information

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

Up to
15 gpm
(76 lpm)

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 Handled

- 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	12 in L x 8.4 in W x 2.4 in H (30.5 cm L x 21.3 cm W x 6.1 cm H)
Weight	0.4 lb (0.18 kg)
Warranty	Seven years
Instruction Manual	312789


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

Ordering Information

SDV15 Control Valve





	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

Quick Close Nozzle


Extension sold separately.

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

High Flow Nozzles with Extension

	Extension	Part Number
	Rigid	255857
	Flexible	255858

Filter Kit

	Description	Part Number
	Strainer filter kit	256164



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.

Up to
20 gpm
(76 lpm)

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 Handled

- 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	12 in L x 8.4 in W x 2.4 in H (30.5 cm L x 21.3 cm W x 6.1 cm H)
Weight	0.4 lb (0.18 kg)
Warranty	Seven years
Instruction Manual	308642

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



XDV20 Control Valve




Ordering Information

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)

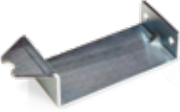




Ordering Information

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 Information

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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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 	<ul style="list-style-type: none"> Automotive dealerships Fast lube centers Lube trucks Lubricant transfer Service shops 	Up to 7,000 lbs (3,175 kg)	Up to 100 (30.5 m)	1	4.5 lbs/min (2 kg/min)	1/4 in NPT(F)	1/4 in NPT(F)	20-150 psi (1.37-10.3 bar)	116-122
Mini Fire-Ball 225, 50:1 	<ul style="list-style-type: none"> Automotive dealerships Fast lube centers Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	Up to 10,000 lbs (4,535 kg)	Up to 100 (30.5 m)	1	1.5 lbs/min (0.7 kg/min)	3/8 in NPT(F)	1/4 in NPT(F)	40-140 psi (2.8-10 bar)	123-126 141-144
Fire-Ball 300, 15:1 	<ul style="list-style-type: none"> Automotive dealerships Fast lube centers Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	Up to 10,000 lbs (4,535 kg)	Up to 250 ft (76 m)	1-2	7.5 lbs/min (3.4 kg/min)	3/8 in NPT(F)	1/4 in NPT(F)	40-180 psi (2.8-12.5 bar)	127-129 141-144
Fire-Ball 300, 50:1 	<ul style="list-style-type: none"> Automotive dealerships Fast lube centers Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	Up to 10,000 lbs (4,535 kg)	Up to 250 ft (76 m)	1-2	7.5 lbs/min (3.4 kg/min)	3/8 in NPT(F)	1/4 in NPT(F)	30-140 psi (2.1-9.7 bar)	127-138 130-134 141-144
Fireball 425, 10:1 	<ul style="list-style-type: none"> Automotive dealerships Fast lube centers Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	> 20,000 lbs (9,072 kg)	Up to 500 ft (152 m)	4 or more	29 lbs/min (13.1 kg/min)	1/2 in NPT(F)	1 in NPT(F)	40-180 psi (2.8-12.5 bar)	135-136 142-144
Fire-Ball 425, 50:1 	<ul style="list-style-type: none"> Automotive dealerships Fast lube centers Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	> 20,000 lbs (9,072 kg)	Up to 250 ft (76 m)	4 or more	9 lbs/min (4.1 kg/min)	1/2 in NPT(F)	3/8 in NPT(F)	40-150 psi (2.8-10.3 bar)	135-137 139-145
Fire-Ball 425, 75:1 	<ul style="list-style-type: none"> Automotive dealerships Fast lube centers Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	> 20,000 lbs (9,072 kg)	Up to 500 ft (152 m)	4 or more	6.5 lbs/min (2.9 kg/min)	1/2 in NPT(F)	3/8 in NPT(F)	40-100 psi (2.8-7 bar)	134-136 138-145
GT 750, 36:1 	<ul style="list-style-type: none"> Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Mining 	> 20,000 lbs (9,072 kg)	Up to 250 ft (76 m)	4 or more	32 lbs/min (14.5 kg/min)	1/2 in NPT(F)	1 in NPT(F)	40-100 psi (2.8-7 bar)	146-147

Grease Pump Selection Guide

Pump Family and Fluid Pressure Ratio	Typical Applications	Annual Usage	Air Inlet	Fluid Outlet	Air Operation Range	Reference Page
 Check-Mate 14:1	<ul style="list-style-type: none"> Fleet service facilities In-plant large runs Large volume lubricant transfer Mining remote fill 	> 20,000 lbs (9,072 kg)	3/4 in NPT(F)	1-1/2 in NPT(M)	0-100 psi (0-7 bar)	148-149 151-152
 Check-Mate 26:1	<ul style="list-style-type: none"> Fleet service facilities In-plant large runs Large volume lubricant transfer Mining remote fill 	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1-1/2 in NPT(M)	0-100 psi (0-7 bar)	148-149 152
 Check-Mate 29:1	<ul style="list-style-type: none"> Fleet service facilities In-plant large runs Large volume lubricant transfer Mining remote fill 	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1 in NPT(F)	0-100 psi (0-7 bar)	148-149 152
 Check-Mate 55:1	<ul style="list-style-type: none"> Fleet service facilities In-plant large runs Large volume lubricant transfer Mining remote fill 	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1 in NPT(F)	0-100 psi (0-7 bar)	148 150-152
 Check-Mate 63:1	<ul style="list-style-type: none"> Fleet service facilities In-plant large runs Large volume lubricant transfer Mining remote fill 	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	3/4 in NPT(M)	0-72 psi (0-4.9 bar)	148 150-152
 Check-Mate 68:1	<ul style="list-style-type: none"> Fleet service facilities In-plant large runs Large volume lubricant transfer Mining remote fill 	> 20,000 lbs (9,072 kg)	3/4 NPT(F)	1 in NPT(F)	0-78 psi (0-5.4 bar)	148 150-152

Pump Family and Fluid Pressure Ratio	Typical Applications	Maximum Grease Output Flow Rate	Maximum Grease Output Pressure	Hydraulic Inlet (Supply)	Hydraulic Outlet (Return)	Grease Outlet	Maximum Hydraulic Inlet Pressure	Reference Page
 Dyna-Star 5:1	<ul style="list-style-type: none"> Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	4 lb/min (1.8 kg/min)	7,500 psi (517 bar)	3/8 in NPT(F)	3/4 in NPT(F)	1/2 in NPT(F)	1,500 psi (102 bar)	153-154
 Dyna-Star 10:1	<ul style="list-style-type: none"> Fleet service facilities Heavy-duty dealerships In-plant Lube trucks Lubricant transfer Mining Service shops 	1.1 lb/min (0.5 kg/min)	7,500 psi (517 bar)	3/4 in -16 JIC (37° Flare)	3/4 in NPT(F)	1/2 in NPT(F)	600 psi (41 bar)	153-154



5 Year Warranty!

Durable and hardworking

Stay ahead of the competition with LD Series pumps. These affordable and full-featured pumps are designed for lower-volume (up to 7,000 lb/year) applications. LD pumps are fine-tuned for a compact, flexible and durable solution.

Three-Inch Air Motor

Provides more power to create better flow.

Engineered for Durability

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

Modular Air Valve

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

Pilot Valves

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

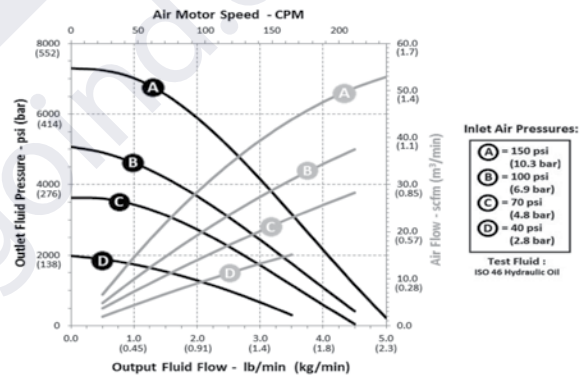
Typical Applications

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

Typical Fluids Handled

- Grease up to NLGI #2

Pump Performance





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 Information

LD Series 50:1 Pumps

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

Ordering Information

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 Information

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	-	-	-	-	24H663	-
Instruction Manual	3A1335	3A1335	3A1335	3A1335	3A1335	3A1335

Ordering Information

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 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 Information

Part Number	Description
129581	LD Pro Shot Grease Valve, 1/4 in NPT

LD Z-Swivel



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

Technical Specifications


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

Ordering Information



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

Ordering Information


Adjustable Bung Adapter

	Part Number	Description
	24P623	Adjustable bung adapter for LD pumps


Air Regulators

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



**7 Year
Warranty!**

Perfect for Medium Pressure, Low Volume Applications

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



Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Extended Seal Life

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

Superior Sealing

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

Corrosion-Resistant

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

Typical Applications

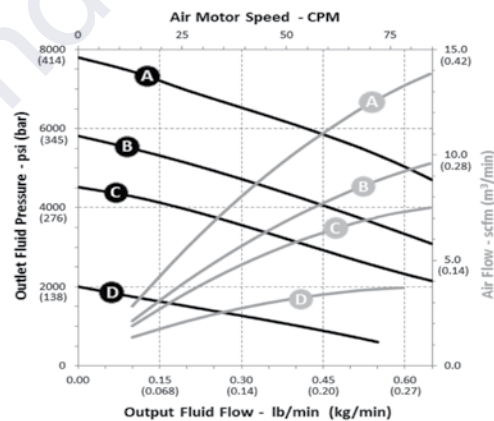
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

Typical Fluids Handled

- Grease up to NLGI #2

Pump Performance

Mini Fire-Ball 225 Pumps



Inlet Air Pressures:
 (A) = 140 psi (9.7 bar)
 (B) = 100 psi (6.9 bar)
 (C) = 80 psi (5.5 bar)
 (D) = 40 psi (2.8 bar)

Test Fluid : NLGI #2 Grease

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 Information

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

Ordering Information

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
	Air Coupler	114558	114558
	Air Fitting	169971	169971
	Z-Swivel	202577	202577
	Pro-Shot Valve	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

Ordering Information

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	–	
	6 ft Hose	109150	–	109150	
	6 ft Coupled Hose	203320	–	–	203320
	Air Coupler	–	114558	114558	–
	Air Fitting	–	169971	169971	–
	Z-Swivel	–	202577	202577	–
	90° 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.

**7 Year
Warranty!**

Ideal for Shops with Grease Transfer

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



Durable

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Extended Seal Life

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

Superior Sealing

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

Corrosion-Resistant

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

Typical Applications

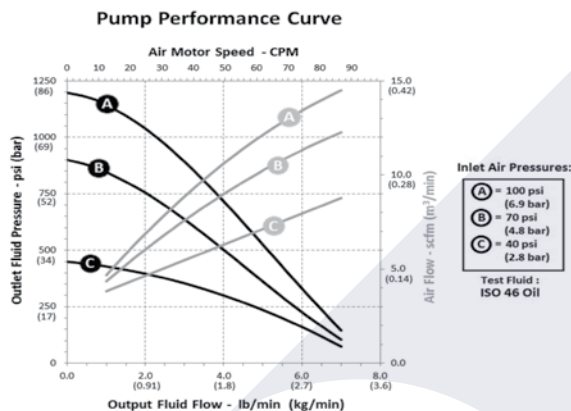
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

Typical Fluids Handled

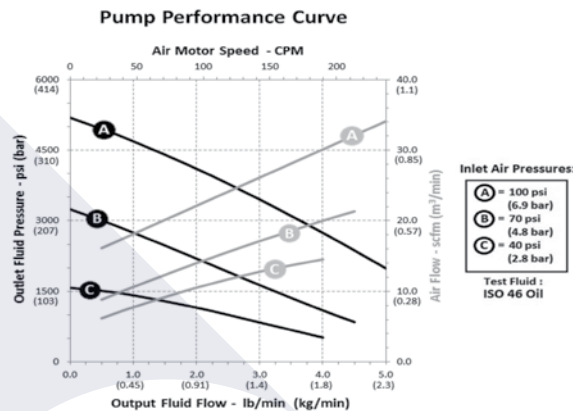
- Grease up to NLGI #2

Pump Performance

Fire-Ball 300 15:1 Pumps



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 Information

Fire-Ball 300 Grease Pumps

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

Ordering Information

15:1 Grease Pump Packages



Package Number	222078	220170	220171	
Type of Package	Stationary Pail Dispenser	Stationary Drum Dispenser	Cover-Mounted Drum Dispenser	
Ratio	15:1	15:1	15:1	
Container Size	35 lb (16 kg)	120 lb (55 kg)	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	

Ordering Information

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 50 lb (11 kb to 23 kg)	25 lb to 50 lb (11 kb 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 to 50 lb (16 kg to 23 kg)	50 lb (23 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
	Hose Part Number	109151	109151	109151	109151	109151
	Air Coupler	114558	114558	114558	114558	114558
	Air Fitting	169971	169971	169971	169971	169971
	Z-Swivel	202577	202577	202577	202577	202577
	Dispenser	Pro-Shot	Accu-Shot	Pro-Shot	Pro-Shot	Accu-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 Information

50:1 120 lb Grease Pump Packages



Package Number	225006*	225026*	26C185*	26C186*	245696*	222245*
Type of Package	Portable with castor base	Portable with 2-wheel cart	Portable with castor 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 25 ft
	Hose Part Number	109151	109151	109151	109151	109154
	6 ft Coupled Hose	-	-	-	-	-
	Air Coupler	114558	114558	114558	114558	114558
	Air Fitting	169971	169971	169971	169971	169971
	Z-swivel	202577	202577	202577	202577	202577
	Fitting(s)	-	-	-	-	-
	Dispenser	Pro-Shot	Pro-Shot	Pro-Shot	Pro-Shot	Accu-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.

Ordering Information

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	

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 Information

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
	Hose Part Number	109150
	6 ft Coupled Hose	203320
	Fitting(s)	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.

Ordering Information

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
	Hose Part Number	109150
	6 ft Coupled Hose	203320
	Fitting(s)	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

**10 Year
Warranty!**

The Pump of Choice for Your Most Demanding Applications!

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



Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

Fewer Repairs

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

Extended Seal Life

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

Superior Sealing

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

Corrosion-Resistant

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

Typical Applications

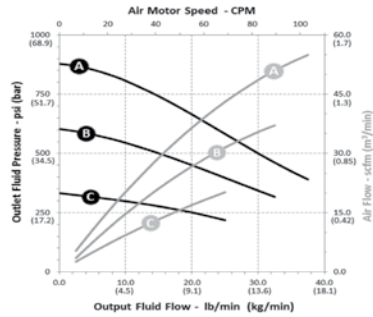
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

Typical Fluids Handled

- Grease up to NLGI #2

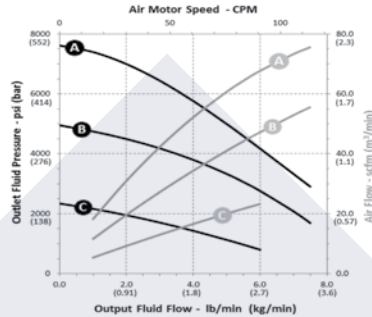
Pump Performance

Fire-Ball 425 10:1 Pumps



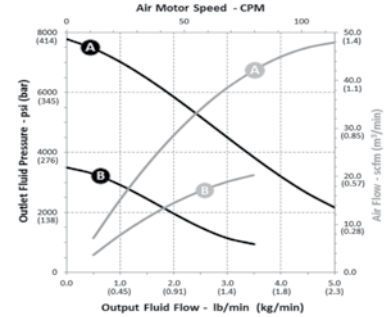
Inlet Air Pressures:
 A = 100 psi (6.9 bar)
 B = 70 psi (4.8 bar)
 C = 40 psi (2.8 bar)
Test Fluid:
 ISO 32 Oil

Fire-Ball 425 50:1 Pumps



Inlet Air Pressures:
 A = 150 psi (10.3 bar)
 B = 100 psi (6.9 bar)
 C = 50 psi (3.4 bar)
Test Fluid:
 NLGI #2 Grease

Fire-Ball 425 75:1 Pumps



Inlet Air Pressures:
 A = 100 psi (6.9 bar)
 B = 50 psi (3.4 bar)
Test Fluid:
 NLGI #2 Grease

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 Information

Fire-Ball 425 Grease Pumps

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

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

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

Ordering Information

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
	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	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 Information

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
	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	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 Information

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
	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	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.

Ordering Information

Grease Pump RAM Packages



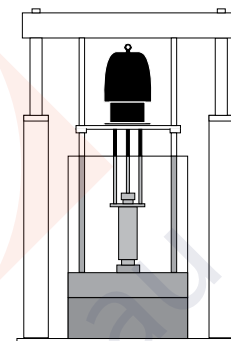
Part 257435 (Ram Assembly) not shown

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
	Hose Part Number	109163
	6 ft Coupled Hose	205418
	Fitting(s)	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

RAM-Mount

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






*Air gauge included with RAM controller.

Ordering Information


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
	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	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

Ordering Information


Air Regulators

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




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


Ordering Information

Follower Plates



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


High-Pressure Grease Shut-Off Valve






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

Ordering Information


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

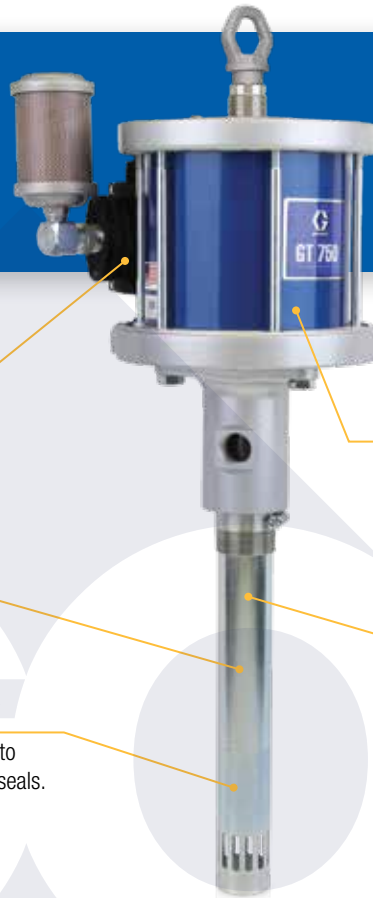
	Part Number	Description
	242055	1/4 in NPT(F) inlet without coupler or extension
	242056	1/4 in NPT(F) inlet with coupler and extension 200389
	242057	3/8 in NPT(F) inlet without coupler or extension
	242058	3/8 in NPT(F) inlet with coupler and extension 200389
	224872	Includes 30 in (76.2 cm) whip hose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

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.



Up to
32 lb/min
(13.6 kg/min)

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.

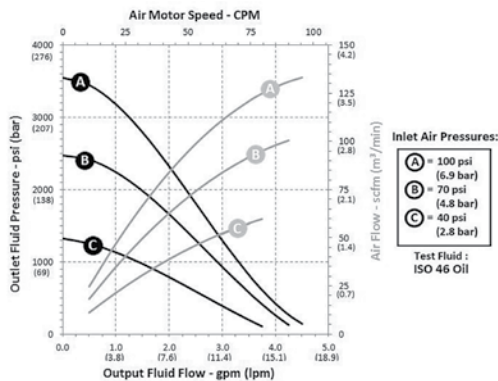
Typical Applications

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

Typical Fluids Handled

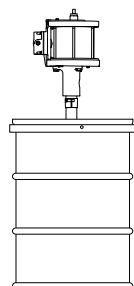
- Grease up to NLGI #2

Pump Performance



Technical Specifications

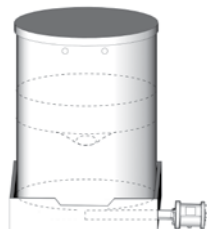
Fluid Pressure Ratio	36:1
Air Pressure Operating Range	40-100 psi (3-7 bar)
Maximum Working Pressure	3,600 psi (248 bar)
Maximum Recommended Continuous Pump Speed	60 cycles per minute
Air Motor Effective Diameter	7.5 in (190 mm)
Stroke	4.75 in (121 mm)
Air Inlet	1/2 in NPT
Fluid Outlet	1 in NPT
Maximum Delivery	32 lb/min (13.6 kg/min)
Pump Weight	59 lb (26.8 kg)
Wetted Parts	Steel, brass, Buna-N, urethane, ductile iron, aluminum
Sound Power (measured at 70 psi [4.8 bar], 20 CPM per ISO-9414-2)	77.2 dBA
Sound Pressure (tested at 3.28 ft [1 m] from equipment)	70.5 dBA
Pump Cycles Per Pound	3 cycles
Pump Cycles Per KG	6 cycles
Warranty	Five years overall and 1 year wear parts
Instruction Manual	3A5363



Drum Mount



Side Pocket Mount







Horizontal Mount



Top Mount


Ordering Information

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

Accessories


Cam Lock Adapters

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

Drum Covers

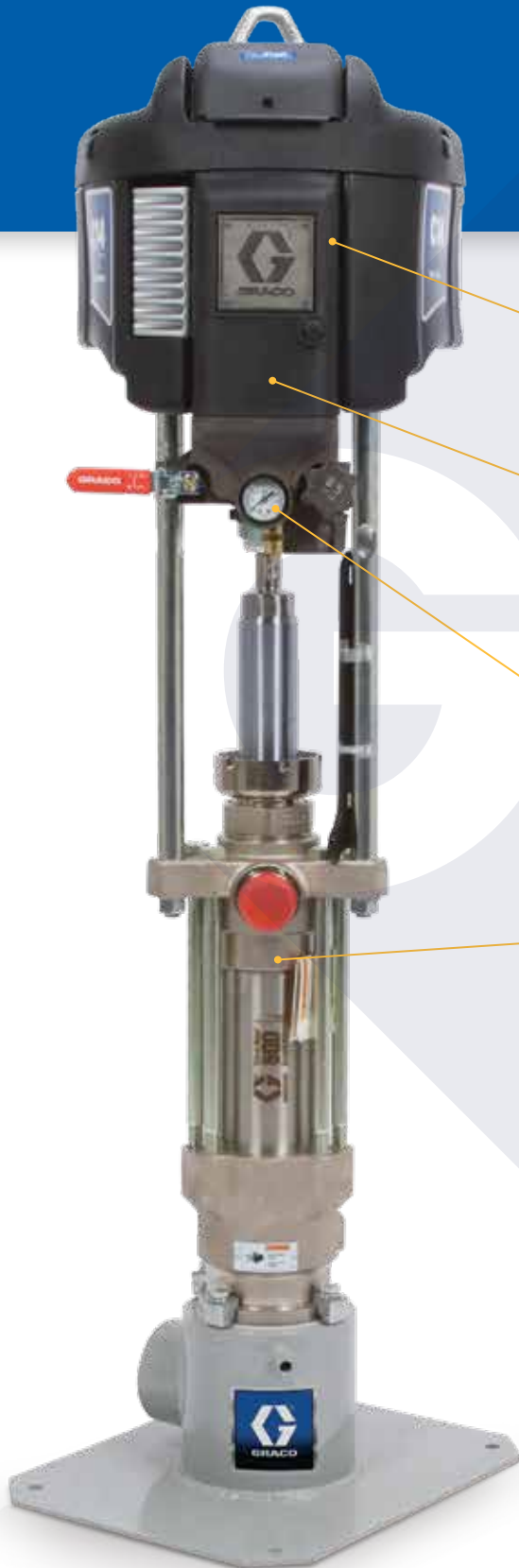
	Part Number	Description
	204574	Cover for 120 lb (54 kg) drums
	200326	Cover for 400 lb (182 kg) drums
	160754	Bung Adapter Plate (used to mount pump to drum cover) – 2 in

Follower Plates

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

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 Handled

- Grease up to NLGI #2



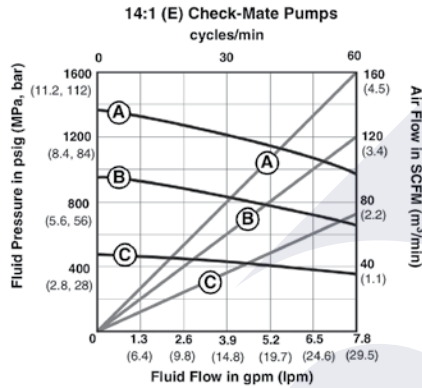
Pump Performance

Inlet Pressures:

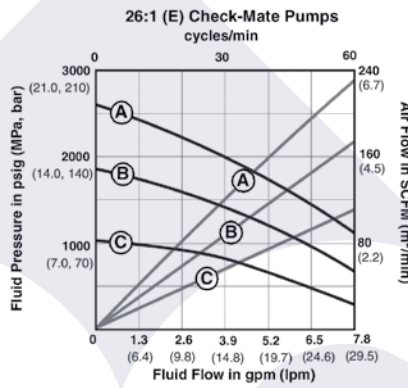
A = 100 psi (6.9 bar) air pressure **B** = 70 psi (4.8 bar) air pressure **C** = 40 psi (2.8 bar) air pressure

TEST FLUID: No. 10 Weight Oil

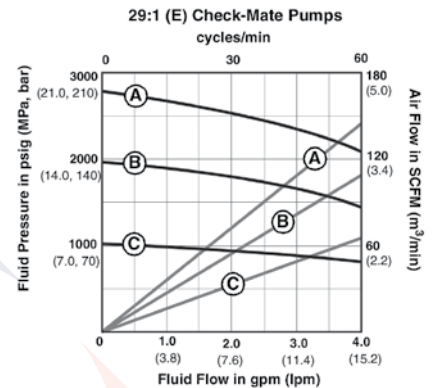
NXT 14:1 Check-Mate Pumps



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 to 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

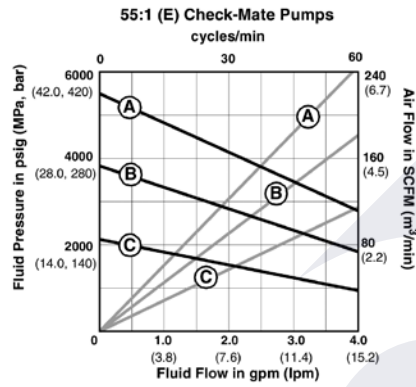
Pump Performance

Inlet Pressures:

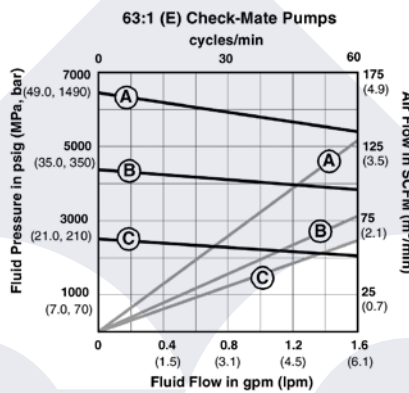
A = 100 psi (6.9 bar) air pressure **B** = 70 psi (4.8 bar) air pressure **C** = 40 psi (2.8 bar) air pressure

TEST FLUID: No. 10 Weight Oil

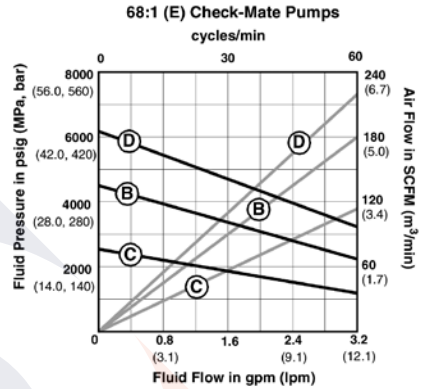
NXT 55:1 Check-Mate Pumps



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 Information

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.



Ordering Information

RAM Pump Packages with DataTrak

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

RAM Pump Packages without DataTrak

Package Number	24E780	24E781	24E782
Ratio	14:1	63:1	68:1
RAM System	CM515N	CM155N	CM2L5N
3/4 in x 6 ft Air Hose	208610	208610	208610
1 in x 6 ft Fluid Hose	115042	244657	244657



Accessory Ordering Information

Seal Kit

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

goind.com.au



Field-Proven, Energy-Efficient

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

Built-In Reliability

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

Quiet Hydraulic Motor

No need for add-on mufflers.

High-Efficiency Motor

Uses less hydraulic oil.

Typical Applications

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

Typical Fluids Handled

- Grease up to NLGI #2

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


Ordering Information

Dyna-Star Hydraulic Pumps


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

Accessories

Drum Covers


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

Follower Plates


	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.

Ordering Information

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	306436	306436	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).



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

**1 Year
Warranty**

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-to-Read LCD

Easily reset electronic display.

Accurate Grease Metering

± 3% accuracy with ± 1% repeatability.

Battery Powered

Utilizes two standard AA alkaline batteries.

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

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

Typical Applications

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

Typical Fluids Handled

- Grease up to NLGI #2

Technical Specifications

Maximum Working Pressure	5,000 psi (345 bar)
Metering System	Oval gears
Accuracy	± 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)	8.8 in L x 1.8 in W x 4.4 H (22.4 cm L x 4.6 cm W x 11.2 cm H)
Weight	2.2 lb (1.0 kg)
Warranty	One year
Instruction Manual	309454

Ordering Information

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

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.

**1 Year
Warranty**



Adjustment Nut

Protected by rigid guard.

Easy Top Adjustment

With locking nut.

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





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

Typical Fluids Handled

- Grease up to NLGI #2

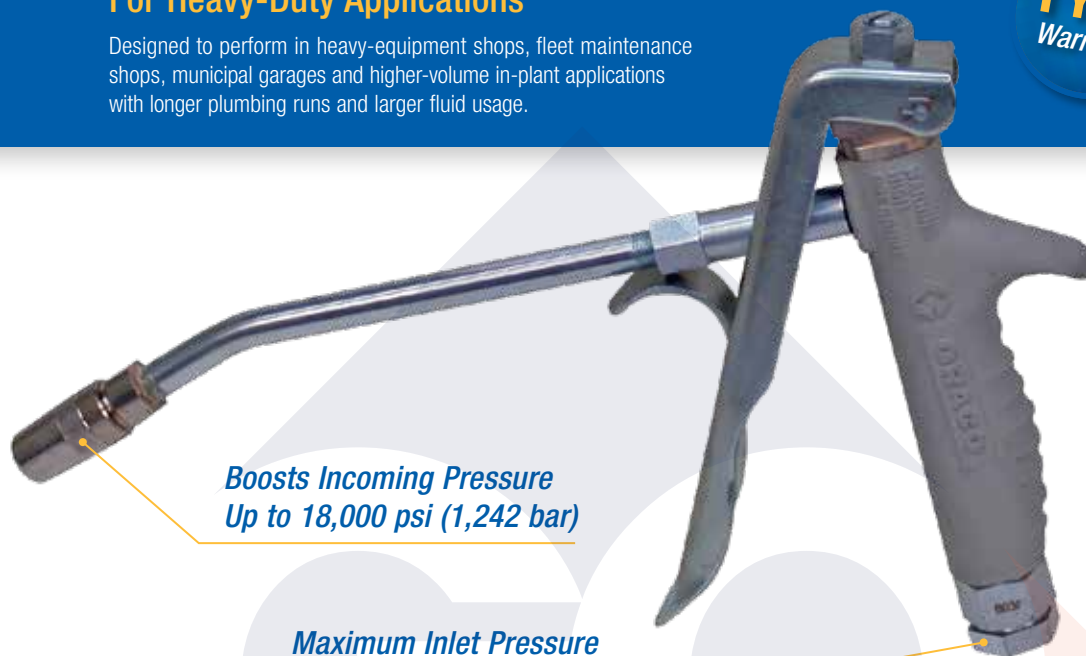
Ordering Information

	Description	NPT	
		1/4 in	3/8 in
	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	—

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.

**1 Year
Warranty**



*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 Handled

- Grease up to NLGI #2

Technical Specifications

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

Ordering Information

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

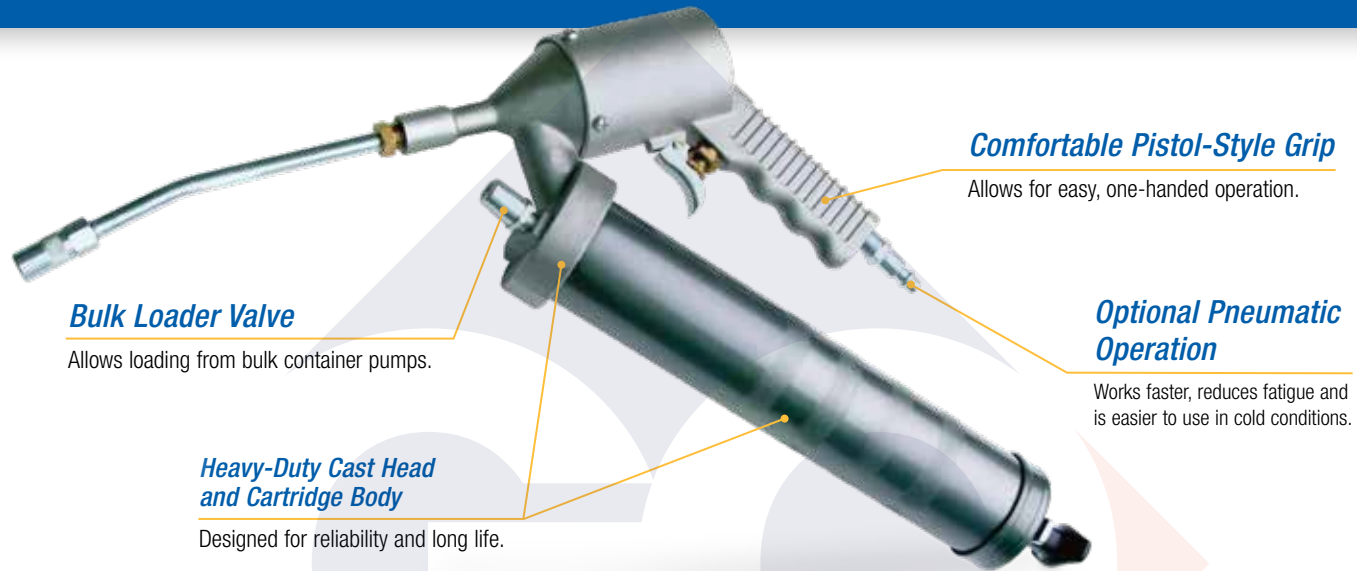
Accessories

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








**1 Year
Warranty**

Lever-Action and Pistol-Style Grease Dispensing Guns

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




Ordering Information


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

Ordering Information


Z-Swivels

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

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.



Ordering Information

Couplers

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



200325



200020

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



203497



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 Information

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

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

Drive-Type Grease Fittings (steel)

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



101287

Standard Button-Head Grease Fitting (steel)

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

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



101297

Giant Button-Head Grease Fitting (steel)

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

110712



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

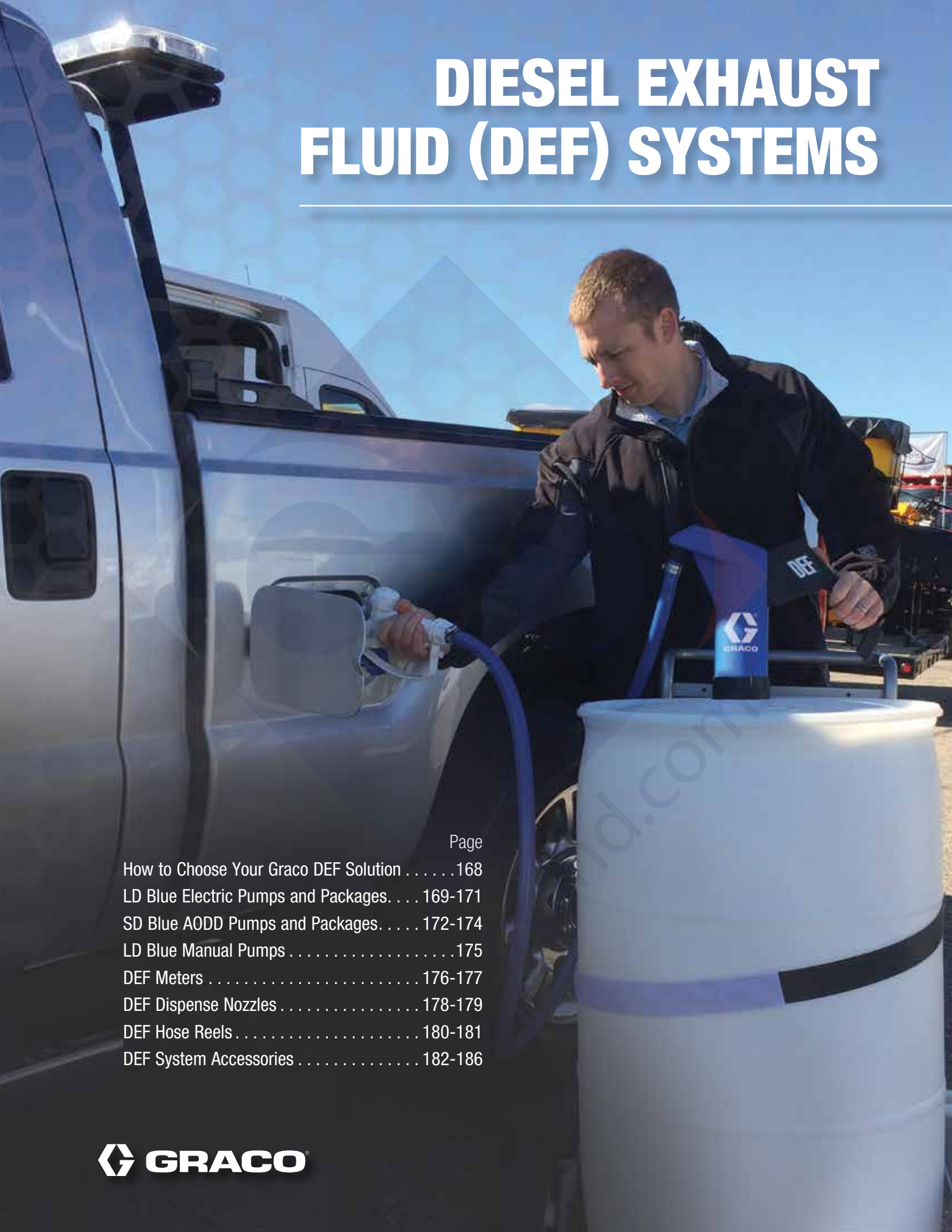


202654

Notes



DIESEL EXHAUST FLUID (DEF) SYSTEMS



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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.



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.

**2 Year
Warranty!**

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 Handled

- Diesel exhaust fluid

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

Ordering Information

Pump Only

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

Ordering Information

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 Information

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

Diesel Exhaust Fluid (DEF) Systems



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



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

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

**5 Year
Warranty!**

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 Handled

- Diesel exhaust fluid

Technical Specifications

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

Ordering Information

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

Ordering Information

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).



Ordering Information

SD Blue Pump Drum Packages



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



Features and Benefits

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

Typical Applications

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

Typical Fluids Handled

- Diesel exhaust fluid

Technical Specifications

Maximum Flow Rate	11 oz per stroke
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Ordering Information

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
125478	6 ft dispense hose with ball valve

**7 Year
Warranty!**



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 Handled

- Diesel exhaust fluid

Ordering Information

Part Number	Description
24G738	SDI15 DEF meter, 1/2 in BSPP(F/F), 1,500 psi, 0.5 to 15 gpm
24H293	SDI15 meter kit with fittings for SST auto nozzle. Includes SDI15 Meter (24G738), Swivel (124964), Nipple Fitting (24H292), Adapter Fitting (16G760) and Elastomeric Seal (124965).



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 Handled

- 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 Information

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



**2 Year
Warranty!**

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 to 12 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 Handled

- Diesel exhaust fluid

Ordering Information

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

Accessories

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



Features and Benefits

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

Typical Applications

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

Typical Fluids Handled

- Diesel exhaust fluid

Ordering Information

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

LD Blue Manual Nozzle

Typical Applications

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

Typical Fluids Handled

- Diesel exhaust fluid

Features and Benefits

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



Ordering Information

Part Number	Description
125078	LD manual DEF nozzle with SST spout



Features and Benefits

- For use with SD and LD pumps (LD pump with manual nozzle only)
- Stainless steel fluid section with open porting ensures high fluid flow with minimal pressure loss
- Flexible positioning of guide arm for mounting on bench, overhead, wall, tote or utility truck
- 150 psi maximum pressure
- 1/2 in x 45 ft inlet hose with 1/2 in BSPT(M) swivel connection to provide leak-free connection

Typical Applications

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

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

Typical Fluids Handled

- Diesel exhaust fluid

Ordering Information

Hose Reels

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

Accessories

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



Features and Benefits

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

Typical Applications

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

Typical Fluids Handled

- Diesel exhaust fluid

Technical Specifications

Operating Temperature Range	12°F to 140°F (-11°C to 60°C)
Maximum Working Pressure	50 psi (3.5 bar)
Wetted Parts (Bare Reel Only)	Zinc plated steel, polyurethane, steel
Weight (Without hose)	98 lb (44.5 kg)
Sound Pressure Level	85.8 dB (A)
Sound Power Level	94.9 dB (A)
Instruction Manual	3A1767

Ordering Information

Hose Reels

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


Hose Reel Inlet Kits

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


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

Ordering Information


Mounting Brackets

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

Dispense and Suction Hoses

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

Pump Handle

	Part Number	Description
	127646	Black handle for 12V DC pump

Ordering Information

Fittings

	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

Ordering Information

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

Colder

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

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












DrumQuick® is a registered trademark of Colder Products Company.

Ordering Information

Micro Matic

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

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

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

EPV™ is a trademark of Micro Matic USA, Inc.

Ordering Information

Micro Matic Packages

Includes coupler, valve and downtube.

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