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Oil Pumps Quick Reference

Technical Specifications and Selection Chart

	Annual Usage	Line Length‡	Dispense Points	Fluids	Air Inlet	Fluid Inlet	Fluid Outlet
	Fast-Ball, 1:1						
	5,000 gal (19,000 l)	< 100 ft (30 m))	1 (no reels)	Motor Oil, ATF, Hydraulic Fluid	1/4 in npt(f)	1-1/2 in npt(f)	3/4 in npt(f)
	LD Series, 3:1						
	20,000 gal (75,000 l)	300 ft (91 m)	1 to 2	Motor Oil, Gear Oil, ATF, Hydraulic Fluid	1/4 in npt(f)	1 in npt(f)	1/2 in npt(f)
	LD Series, 5:1						
	20,000 gal (75,000 l)	300 ft (91 m)	1 to 2	Motor Oil, Gear Oil, ATF, Hydraulic Fluid	1/4 in npt(f)	1 in npt(f)	1/2 in npt(f)
	Mini Fire-Ball 225, 3:1						
	30,000 gal (113,500 l)	250 ft (76 m)	1 to 2	Motor Oil, Gear Oil, ATF, Hydraulic Fluid	3/8 in npt(f)	1-1/2 in npt(f)	1/2 in npt(f)
	Fire-Ball 300, 5:1						
	35,000 gal (132,000 l)	500 ft (152 m)	1 to 3	Motor Oil, Gear Oil, ATF, Hydraulic Fluid	3/8 in npt(f)	1-1/2 in npt(f)	1/2 in npt(f)
	Fire-Ball 425, 3:1						
	>35,000 gal (132,000 l)	Up to 250 ft (76 m)	3 to 4	Motor Oil, Gear Oil, ATF, Hydraulic Fluid	1/4 in npt(f)	1-1/2 in npt(f)	3/4 in npt(f)
	Fire-Ball 425, 6:1						
	>35,000 gal (132,000 l)	Up to 500 ft (152 m)	3 to 4	Motor Oil, Gear Oil, ATF, Hydraulic Fluid	1/4 in npt(f)	1-1/2 in npt(f)	3/4 in npt(f)
	Fire-Ball 425, 10:1						
	>35,000 gal (132,000 l)	Up to 750 ft (228.6 m)	3 to 4	Motor Oil, Gear Oil, ATF, Hydraulic Fluid	1/4 in npt(f)	1-1/2 in npt(f)	3/4 in npt(f)

‡ Consult your local authorized Graco representative for line or pipe sizing

Oil Pumps Quick Reference

Technical Specifications and Selection Chart

Annual Usage	Line Length‡	Dispense Points	Pump Ratio(s)	Output Per Cycle	Fluids
Dura-Flo, 6:1					
>35,000 gal (132,000 l)	Up to 500 ft (152 m)	2 to 4	6:1	1000 cc	Motor Oil, Gear Oil, ATF, Hydraulic Fluid
Dura-Flo, 10:1					
>35,000 gal (132,000 l)	Up to 750 ft (228.6 m)	2 to 4	10:1	1000 cc	Motor Oil, Gear Oil, ATF, Hydraulic Fluid
Dura-Flo, 12:1 Carbon Steel or Dura-Flo, 12:1 Stainless Steel					
>35,000 gal (132,000 l)	Up to 1000 ft (305 m)	2 to 4	12:1	580 cc	Motor Oil, Gear Oil, ATF, Hydraulic Fluid
Dura-Flo, 23:1					
>35,000 gal (132,000 l)	Up to 1000 ft (305 m)	2 to 4	23:1	580 cc	Motor Oil, Gear Oil, ATF, Hydraulic Fluid

Annual Usage	Line Length	Dispense Points	Pump Ratio(s)	Output Per Cycle	Fluids
High-Flo, 3.5:1					
>35,000 gal (132,000 l)	Up to 250 ft (76 m)	4 to 5	3.5:1	2000 cc	Motor Oil, Gear Oil, ATF, Hydraulic Fluid
High-Flo, 4.5:1					
>35,000 gal (132,000 l)	Up to 450 ft (137.1 m)	4 to 5	4.5:1	1500 cc	Motor Oil, Gear Oil, ATF, Hydraulic Fluid
High-Flo, 6:1					
>35,000 gal (132,000 l)	Up to 500 ft (152.5 m)	4 to 5	6:1	2000 cc	Motor Oil, Gear Oil, ATF, Hydraulic Fluid

‡ Consult your local authorized Graco representative for line or pipe sizing

Fast-Ball® 1:1

Air-Powered Oil Pumps and Packages

Features and Benefits

- In-line design with fewer parts for less pump wear
- Differential air motor ensures smooth pumping
- Double-acting pump provides reliable fluid flow

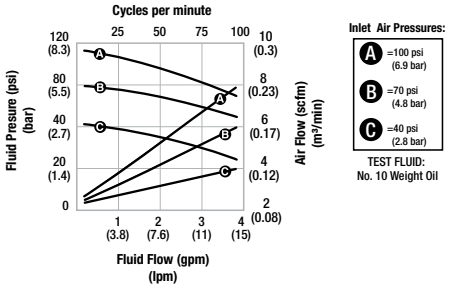
Typical Applications

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

Typical Fluids Handled

- Petroleum- and synthetic-based oils

Pump Performance



Technical Specifications

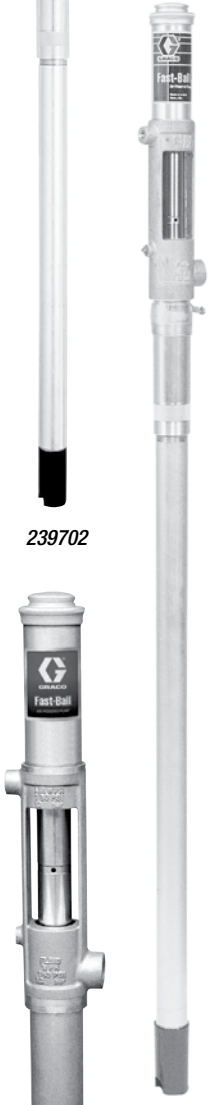
Cycles per Gallon	10 (45.5 liters)
Fluid Flow gal/min @ 80 cpm	5 (19 liters)
Maximum Fluid Pressure	180 psi (12.5 bar)
Air Motor Effective Diameter	1.4 in (35.6 mm)
Air Operating Range	40-180 psi (2.7-12.5 bar)
Approx. Air Use and Flow @ 100 psi and 80 cpm	5 scfm
Wetted Materials	CS, Polyurethane
Air Inlet Port Size	1/4 in npt(f)
Fluid Inlet Port Size	1-1/2 in npt(f)
Fluid Outlet Port Size	3/4 in npt(f)
Line Length‡	Up to 100 ft (30.5 m)
Dispense Points	1 (not recommended with hose reel)
Annual Usage	Up to 5,000 gal (19,000 l)
Typical Applications	Continuous duty, maintenance facility dispensing motor oil, automatic transmission fluid, hydraulic fluid

Ordering Information

Package	Non-Metered Dispense	U.S./Metric Metered Dispense	Bung-Mounted	Bung-Mounted	Universal
Container Size	55 gal (200 l)			275 gal (1040 l)	Universal
Package No.	**222602**	**239702**	**222103**	**222104**	**222051**
Pump	222103			222104	222051
Dispense Kit	218115	239703	—	—	—
Regulator Assembly	218316		—	—	—
Hose	109125	—	—	—	—
Hose Length	6 ft (1.8 m)	—	—	—	—
Bung Adapter	222308				—
Instruction Manual	307637		307906		

239702

222602



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‡ Consult your local authorized Graco representative for line or pipe sizing

LD Series 3:1 Pump

Air-Powered Oil Pumps and Packages

Features and Benefits

- Built-in thermal relief protects your equipment from thermal expansion
- Three inch air motor provides more power to create better flow
- Cup and plate design eliminates the need for O-rings that wear out faster

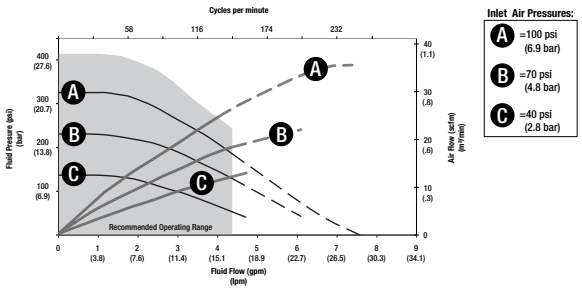
Typical Applications

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

Typical Fluids Handled

- Petroleum- and synthetic-based oils

Pump Performance



LD Series 3:1 Pump

Technical Specifications

Maximum Fluid Working Pressure	450 psi (31 bar, 3.10 MPa)
Fluid Pressure Ratio	3:1
Suction Lift (feet of oil)	10
Air Operation Range	20 to 150 psi (1.37 to 10.3 bar)
Recommended Air Pressure (for optimum life)	<125 psi (8.6 bar, 0.86 MPa)
Max Recommended Pump Speed	120 cycles per minute
Cycles Per Gallon/pound (l/kg)	29 cycles per gallon (7 cycles per liter)
Recommended Pump Speed (for maximum life)	75 cycles per minute or lower
Wetted Parts	Zinc plated carbon, steel, aluminum, nitrile, polyurethane, nickel plated aluminum
Sound Pressure Level	72.9 dB(a)
Sound Power Level	82 dB(a)
Approximate Weight	7 pounds (3.2 kg)
Air Inlet	1/4 in
Fluid Inlet	1 in
Fluid Outlet	1/2 in
Free Flow	7.8 gpm
Annual Usage	Up to 20,000 gal (76,000 l)

Ordering Information

LD Series 3:1 Pumps	
24G576	3:1 Universal Oil Pump with bung adapter (24F918)
24G579	3:1 Oil Pump with cut-to-length down tube, and bung adapter (24F918)
24G582	3:1 Oil Pump with 55 gal (200 liter) down tube and bung adapter (24F918)
24G585	3:1 Oil Pump with 275 gal (1040 liter) down tube and bung adapter (24F918)

LD Series 5:1 Pump

Air-Powered Oil Pumps and Packages

Features and Benefits

- Built-in thermal relief protects your equipment from thermal expansion
- Three inch air motor provides more power to create better flow
- Cup and plate design eliminates the need for O-rings that wear out faster

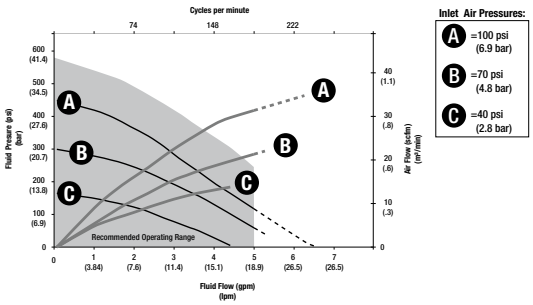
Typical Applications

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

Typical Fluids Handled

- Petroleum- and synthetic-based oils

Pump Performance



LD Series 5:1 Pump

Technical Specifications

Maximum Fluid Working Pressure	750 psi (51.7 bar, 5.17 MPa)
Fluid Pressure Ratio	5:1
Suction Lift (feet of oil)	10
Air Operation Range	20 to 150 psi (1.37 to 10.3 bar)
Recommended Air Pressure (for optimum life)	<125 psi (8.6 bar, 0.86 MPa)
Max Recommended Pump Speed	180 cycles per minute
Cycles Per Gallon/pound (l/kg)	37 cycles per gallon (10 cycles per liter)
Recommended Pump Speed (for maximum life)	75 cycles per minute or lower
Wetted Parts	Zinc plated carbon, steel, aluminum, nitrile, polyurethane, nickel plated aluminum
Sound Pressure Level	72.9 dB(a)
Sound Power Level	82 dB(a)
Approximate Weight	7.7 pounds (3.5 kg)
Air Inlet	1/4 in
Fluid Inlet	1 in
Fluid Outlet	1/2 in
Free Flow	6.7 gpm
Annual Usage	Up to 20,000 gal (76,000 l)

Ordering Information

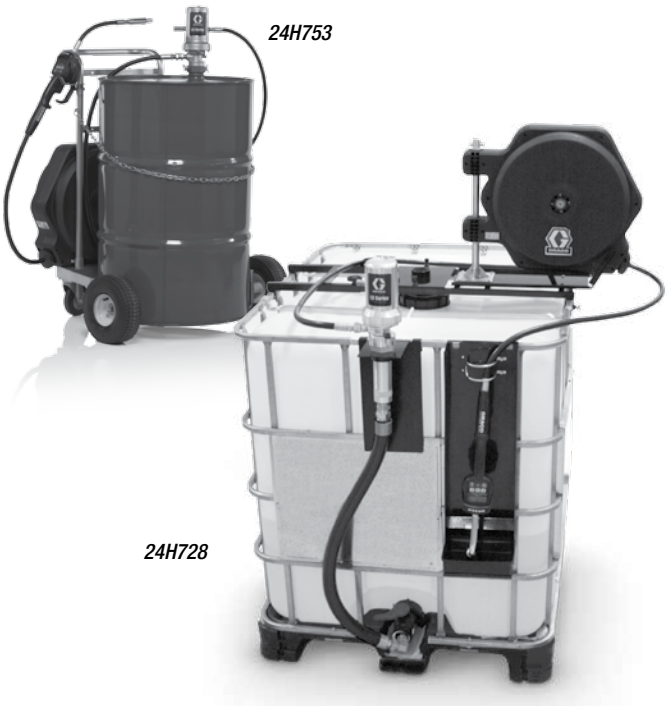
LD Series 5:1 Pumps	
24G588	5:1 Universal Oil Pump with bung adapter (24F918)
24G591	5:1 Oil Pump with cut-to-length down tube and bung adapter (24F918)
24G594	5:1 Oil Pump with 55 gal (200 liter) down tube and bung adapter (24F918)
24G597	5:1 Oil Pump with 275 gal (1040 liter) down tube and bung adapter (24F918)

LD Series Oil Pump Packages

Air-Powered Oil Pumps and Packages

Ordering Information

3:1 Tank Packages with LD Reel	
24J776	3:1 LD Tank Package. Includes: 3:1 Universal oil pump (24G576), LDM5 Manual meter (256215), 1/2" x 35' LD oil hose reel (24H662), 1/2" Oil inlet kit (24C538), LD swivel mount bracket (24C772)
3:1 Tank Packages with SD Reel	
24J733	3:1 Tank Package – Manual. Includes: 3:1 Universal Oil pump (24G576), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2" x 50' (HPM65B), SD Reel Inlet Kit (218549)
24J734	3:1 Tank Package – Preset. Includes: 3:1 Universal Oil pump (24G576), LDP5 Preset meter with rigid extension (256216), SD oil reel, 1/2" x 50' (HPM65B), SD Reel Inlet kit (218549)
24K836	3:1 Tank Package – Manual Flex: 3:1 Universal Oil pump (24G576), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 50' (HPM65B), SD Reel Inlet Kit (218549)
3:1 Deluxe Tank Packages with SD Reel	
24K777	3:1 Deluxe Tank Package – Preset Rigid: 3:1 Universal Oil Pump (24G576), LDP5 Preset meter with rigid extension (256216), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" mini air regulator with valve (24H420)
24K797	3:1 Deluxe Tank Package – Manual Rigid: 3:1 Universal Oil Pump (24G576), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
24K799	3:1 Deluxe Tank Package – Manual Flex: 3:1 Universal Oil Pump (24G576), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
24K832	3:1 Deluxe Tank Package – Manual Flex: 3:1 Universal Oil Pump (24G576), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 35' (HPM33B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
24K834	3:1 Deluxe Tank Package – Manual Rigid: 3:1 Universal Oil Pump (24G576), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2" x 35' (HPM33B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
3:1 Tote Mount Packages with SD Reel	
24K838	3:1 Oil Tote Mount with SD Reel – Preset Rigid. Includes: 3:1 Oil pump with 275 gal (1040 liter) steel down tube (24G585), LDP5 Preset meter with rigid extension (256216), SD oil reel, 1/2"x50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), Pump tote mount bracket (24F930), SD reel bracket for tote mount, Meter tray (24F914)
24K840	3:1 Oil Tote Mount with SD Reel – Manual Rigid. Includes: 3:1 Oil pump with 275 gal (1040 liter) steel down tube (24G585), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2"x50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), Pump tote mount bracket (24F930), SD reel bracket for tote mount, Meter tray (24F914)
24K842	3:1 Oil Tote Mount with SD Reel – Manual Flex. Includes: 3:1 Oil pump with 275 gal (1040 liter) steel down tube (24G585), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), Pump tote mount bracket (24F930), SD reel bracket for tote mount, Meter tray (24F914)
3:1 Tote Mount Packages with LD Reel	
24H702	3:1 Oil Tote Mount Package – Top. Includes: 3:1 275 gal (1040L) Oil pump (24G585), 6 ft Oil hose kit (24J495), Top mount tote bracket (24F930), LD Reel bracket kit (24F932), Meter tray (24F914), LDM5 Rigid Meter (256215), 1/2" x 35' LD oil hose reel (24H662)
24H704	3:1 Oil Tote Mount Package – Top. Includes: 3:1 275 gal (1040L) Oil pump (24G585), 6 ft Oil hose kit (24J495), Top mount tote bracket (24F930), LD Reel bracket kit (24F932), Meter tray (24F914), LDP5 Rigid Meter (256216), 1/2" x 35' LD oil hose reel (24H662)
24H726	3:1 Oil Tote Mount Package – Drain. Includes: 3:1 Universal oil pump (24G576), 6 ft Oil hose kit (24J495), 6 ft Suction hose kit (24H669), Tote mount pump bracket (24F920), Top mount tote bracket (24F931), LD Reel bracket kit (24F932), Meter tray (24F914), LDM5 Rigid meter (256215), LD oil hose reel, 1/2" x 35' (24H662)
24H728	3:1 Oil Tote Mount Package – Drain. Includes: 3:1 Universal oil pump (24G576), 6 ft Oil hose kit (24J495), 6 ft Suction hose kit (24H669), Tote mount pump bracket (24F920), Top mount tote bracket (24F931), LD Reel bracket kit (24F932), Meter tray (24F914), LDP5 Rigid meter (256216), LD oil hose reel, 1/2" x 35' (24H662)
3:1 Wall Mount Packages	
24H689	3:1 Oil Wall Mount Package – Drum. Includes: 3:1 Universal oil pump (24G576), 6 ft LD oil pump suction hose kit for 55 gal drum (24F935), Wall mount bracket (24F910)
24H695	3:1 Oil Wall Mount Package – Tote. Includes: 3:1 Universal oil pump (24G576), 6 ft LD Oil pump section hose kit for 275 gal tote (24H666), Oil hose kit (24H859), Wall mount bracket (24F910)
3:1 Mobile Packages	
24H751	3:1 Oil Mobile Package with LD Reel. Includes: 3:1 200L Oil pump (24G582), 6 ft Oil hose kit (24J495), LDM5 Rigid meter (256215), 55 gal Cart (24F915), LD oil hose reel, 1/2" x 35' (24H662)
24H753	3:1 Oil Mobile Package with LD Reel. Includes: 3:1 200L Oil pump (24G582), 6 ft Oil hose kit (24J495), LDP5 Rigid meter (256216), 55 gal Cart (24F915), LD oil hose reel, 1/2" x 35' (24H662)
24H775	3:1 Oil Mobile Package. Includes: 3:1 200L Oil pump (24G582), Fluid hose kit, 5 M (24H865), LDM5 Rigid meter (256215), 55 gal Cart (24F915)
24H777	3:1 Oil Mobile Package. Includes: 3:1 200L Oil pump (24G582), Fluid hose kit, 5 M (24H865), LDP5 Rigid meter (256216), 55 gal Cart (24F915)
3:1 Stationary Packages	
24H800	3:1 Oil Stationary Package. Includes: 3:1 Multi-length oil pump (24G579), 6 ft Oil hose kit (24H859), LDM5 Rigid meter (256215)
24H802	3:1 Oil Stationary Package. Includes: 3:1 Multi-length oil pump (24G579), 6 ft Oil hose kit (24H859), LDP5 Rigid meter (256216)



24H753

24H728

5:1 LD Series Pump Packages

Air-Powered Oil Pumps and Packages

Ordering Information

5:1 Tank Packages with LD Reel	
24J777	5:1 LD Tank Package. Includes: 5:1 Universal oil pump (24G588), LDM5 Manual meter (256215), 1/2" x 35' LD oil hose reel (24H662), 1/2" Oil inlet kit (24C538), LD swivel mount bracket (24C772)
5:1 Tank Packages with SD Reel	
24J735	5:1 Tank Package – Manual. Includes: 5:1 Multi-length oil pump (24G588), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2" x 50' (HPM65B), SD Reel Inlet kit (218549)
24J736	5:1 Tank Package – Preset. Includes: 5:1 Multi-length oil pump (24G588), LDP5 Preset meter with rigid extension (256216), SD reel, 1/2" x 50' (HPM65B), SD Reel Inlet Kit (218549)
24K837	5:1 Tank Package – Manual Flex: 5:1 Universal Oil pump (24G588), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 50' (HPM65B), SD Reel Inlet Kit (218549)
5:1 Deluxe Tank Packages with SD Reel	
24K796	5:1 Deluxe Tank Package – Preset Rigid: 5:1 Universal Oil Pump (24G588), LDP5 Preset meter with rigid extension (256216), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
24K798	5:1 Deluxe Tank Package – Manual Rigid: 5:1 Universal Oil Pump (24G588), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
24K800	5:1 Deluxe Tank Package – Manual Flex: 5:1 Universal Oil Pump (24G588), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
24K833	5:1 Deluxe Tank Package – Manual Flex: 5:1 Universal Oil Pump (24G588), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 35' (HPM33B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
24K835	5:1 Deluxe Tank Package – Manual Rigid: 5:1 Universal Oil Pump (24G588), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2" x 35' (HPM33B), 6 ft Air and Fluid hoses with fittings (24J495), 1/4" x 3/8" Mini air regulator with valve (24H420)
5:1 Tote Mount Packages with SD Reel	
24K839	5:1 Oil Tote Mount with SD Reel – Preset Rigid. Includes: 5:1 Oil pump with 275 gal (1040 liter) steel down tube (24G597), LDP5 Preset meter with rigid extension (256216), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), Pump tote mount bracket (24F930), SD reel bracket for tote mount, Meter tray (24F914)
24K841	5:1 Oil Tote Mount with SD Reel – Preset Rigid. Includes: 5:1 Oil pump with 275 gal (1040 liter) steel down tube (24G597), LDM5 Manual meter with rigid extension (256215), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), Pump tote mount bracket (24F930), SD reel bracket for tote mount, Meter tray (24F914)
24K843	5:1 Oil Tote Mount with SD Reel – Preset Rigid. Includes: 5:1 Oil pump with 275 gal (1040 liter) steel down tube (24G597), LDM5 Manual meter with flex extension (258693), SD oil reel, 1/2" x 50' (HPM65B), 6 ft Air and Fluid hoses with fittings (24J495), Pump tote mount bracket (24F930), SD reel bracket for tote mount, Meter tray (24F914)
5:1 Tote Mount Packages with LD Reel	
24H868	5:1 Oil Tote Mount Package – Top. Includes: 5:1 1040L Oil pump (24G597), 6 ft Oil hose kit (24J495), Tote top mount bracket (24F930), LD Reel bracket (24F932), Meter tray (24F914), LDM5 rigid meter (256215), 1/2" x 35' LD oil hose reel (24H662)
24H870	5:1 Oil Tote Mount Package – Top. Includes: 5:1 1040L Oil pump (24G597), 6 ft Oil hose kit (24J495), Tote top mount bracket (24F930), LD Reel bracket (24F932), Meter tray (24F914), LDP5 Rigid meter (256216), 1/2" x 35' LD oil hose reel (24H662)
24H892	5:1 Oil Tote Mount Package – Drain. Includes: 5:1 Oil universal pump (24G588), 6 ft Oil hose kit (24J495), Suction hose kit tote (24H669), Tote mount pump bracket (24F920), Tote top mount bracket (24F931), LD reel bracket kit (24F932), Meter tray (24F914), LDM5 Rigid meter (256215), LD oil hose reel, 1/2" x 35' (24H662)
24H894	5:1 Oil Tote Mount Package – Drain. Includes: 5:1 Oil universal pump (24G588), 6 ft Oil hose kit (24J495), Suction hose kit tote (24H669), Tote mount pump bracket (24F920), Tote top mount bracket (24F931), LD reel bracket kit (24F932), Meter tray (23F914), LDP5 Rigid meter (256216), LD oil hose reel, 1/2" x 35' (24H662)
5:1 Wall Mount Packages	
24H836	5:1 Oil Wall Mount Package – Drum. Includes: 5:1 Oil universal pump (24G588), 6 ft LD oil pump suction hose kit for 55 gal drum (24F935), Wall mount bracket (24F910)
24H842	5:1 Oil Wall Mount Package – Tote. Includes: 5:1 Oil universal pump (24G588), 6 ft Oil hose kit (24H859), 6 ft LD Oil pump section hose kit for 275 gal tote (24H666), Wall mount bracket (24F910)
5:1 Mobile Packages	
24H916	5:1 Oil Mobile Package with LD Reel. Includes: 5:1 55 gal (200 L) Oil pump (24G594), 6 ft Oil hose kit (24J495), LDM5 Rigid meter (256215), 55 gal Cart (24F915), LD oil hose reel, 1/2" x 35' (24H662)
24H918	5:1 Oil Mobile Package with LD Reel. Includes: 5:1 55 gal (200 L) Oil pump (24G594), 6 ft Oil hose kit (24J495), LDP5 Rigid meter (256216), 55 gal Cart (24F915), LD oil hose reel, 1/2" x 35' (24H662)
24H941	5:1 Oil Mobile Package. Includes: 5:1 55 gal (200 L) oil pump (24G594), Fluid hose kit, 5M (24H865), LDM5 Rigid meter (256215), 55 gal Cart (24F915)
24H943	5:1 Oil Mobile Package. Includes: 5:1 55 gal (200 L) oil pump (24G594), Fluid hose kit, 5M (24H865), LDP5 Rigid meter (256216), 55 gal Cart (24F915)
5:1 Stationary Packages	
24H965	5:1 Oil Stationary Package. Includes: 5:1 Oil multi-length pump (24G591), Fluid oil hose kit (24H859), LDM5 Rigid meter (256215)
24H967	5:1 Oil Stationary Package. Includes: 5:1 Oil multi-length pump (24G591), Fluid oil hose kit (24H859), LDP5 Rigid meter (256216)

24H842

LD Series Oil Pump Accessories

Air-Powered Oil Pumps and Packages

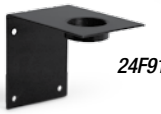
Ordering Information

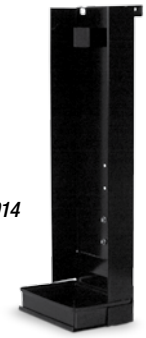
Down Tubes	
16F878	Universal cut to length pvc down tube for LD 3:1 and 5:1 pumps
16F886	Drum length steel down tube for LD 3:1 and 5:1 pumps
16F885	Tote length steel down tube for LD 3:1 and 5:1 pumps
Drum Covers	
24F904	Cover for 35 lb (16 kg) pails
24F905	Cover for open-head 120 lb drums
24F906	Cover for open-head 400 lb drums
Suction Kits	
24F935	LD Oil Pump Suction hose kit for 55 gal (200 L) drum. Includes: 55 gal (200 L) drum length metal down tube, bung adapter, foot valve, and 6 ft of 1" suction hose
24H666	LD Oil Pump Suction hose kit for 275 gal (1040 L) drum. Includes: 275 gal (1040 L) tote length metal down tube, bung adapter, foot valve, and 6 ft of 1" suction hose
24H669	LD Oil Pump Suction hose kit and adapter for mounting pump to the side of IBC tote and dispensing from drain. Includes 1" x 3' Suction hose, 1" Elbow fitting, and union fitting (160022)
Hose and Fitting Kits	
24H865	15 ft LD pump fluid hose kit. Includes 1/2" x 15 ft fluid hose, 3/8" x 6 ft Air hose, Swivel (157705), and union fitting (156684)
24H859	6 ft LD pump fluid hose kit. Includes 1/2" x 6 ft fluid hose, 3/8" x 6 ft Air hose, Swivel (157705), and union fitting (156684)
Air Regulators	
24H420	Mini air pressure regulator with valve, 1/4 inch NPT x 3/8 inch NPT
Tote Mount Accessories	
24F914	Meter drip tray for mounting to the side of IBC tote
24F932	LD Reel bracket for mounting reel to IBC top mount tote bracket (24F930 and 24F920)
24F931	Tote mounting bracket to mount reel on top of IBC tote, (pump mounting bracket is not included)
24F930	Top of tote mounting bracket. For mounting LD pump in top of IBC tote
24F920	Bracket for mounting LD pump on the side of IBC tote
24K285	Bracket for mounting SD hose reel to IBC tote mounting bracket 24F930 (24F930 bracket sold separately)
Mounting Hardware	
24F910	LD pump wall mounting bracket. For use with LD 3:1 and 5:1 pumps
24F918	Bung adapter for LD 3:1 and 5:1 pumps
Carts	
24F915	Drum cart with pneumatic wheels for 400 lb drums, includes chain for securing drum to cart
24H422	Drum cart with pneumatic wheels for 120 lb drums, includes chain for securing drum to cart

24F904

24F901

24F920


24F910


24F914

24F930

24F932

24H422

24F915

Mini Fire-Ball® 225 3:1

Air-Powered Oil Pumps and Packages

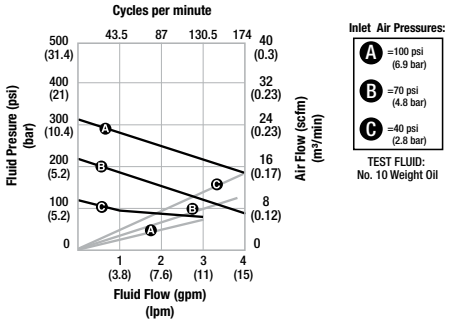
Features and Benefits

- In-line design with fewer parts for less pump wear
- Differential air motor ensures smooth pumping
- Double-acting pump provides reliable fluid flow

Typical Applications

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

Pump Performance



246775

Typical Fluids Handled

- Petroleum- and synthetic-based oils

Technical Specifications

Cycles per Gallon	43.5 (11.4 liters)
Fluid Flow gal/min @ 80 cpm	1.84 (7.0 liters)
Maximum Fluid Pressure	540 psi (37 bar)
Air Motor Effective Diameter	2.25 in (57.2 mm)
Air Operating Range	40-180 psi (2.8-12 bar)
Approx. Air Use and Flow @ 100 psi and 80 cpm	8.5 scfm @ 2.1 gpm, (0.241 m^3/min @ 7.9 lpm)
Wetted Materials	Steel, Buna-N, Polyurethane, Aluminum, Rulon®
Air Inlet Port Size	3/8 in npt(f)
Fluid Inlet Port Size	1-1/2 in npt(f)
Fluid Outlet Port Size	1/2 in npt(f)
Line Length‡	Up to 250 ft (76.2 m)
Dispense Points	1 to 2
Annual Usage	Up to 35,500 gal (132,000 l)
Typical Applications	Continuous duty, maintenance facility dispensing motor oil, gear oil, automatic transmission fluid, hydraulic fluid

Ordering Information

Mini Fire-Ball 225 3:1 Pump	
248097	3:1 Universal Oil Pump with suction tube (15C502) and bung adapter (222308)
246775	3:1 Universal Oil Pump

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 300 5:1

Air-Powered Oil Pumps and Packages

Features and Benefits

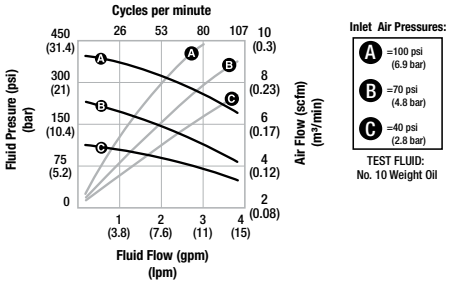
- Large air-porting design provides efficient use of compressed air supply for continuous pump operation without icing
- In-line design with fewer parts for less pump wear
- Differential air motor ensures smooth pumping
- Double-acting pump provides reliable fluid flow

203876

Typical Applications

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

Pump Performance



Typical Fluids Handled

- Petroleum- and synthetic-based oils

Technical Specifications

Cycles per Gallon	28.4 (8.6 liters)
Fluid Flow gal/min @ 80 cpm	2.8 (9.3 liters)
Maximum Fluid Pressure	900 psi (62 bar)
Air Motor Effective Diameter	3 in (76.2 mm))
Air Operating Range	40-180 psi (2.8-12 bar)
Approx. Air Use and Flow @ 100 psi and 80 cpm	27 scfm @ 3 gpm (0.765 m^3/min @ 11.5 lpm)
Wetted Materials	Steel, Polyurethane, Aluminum, Buna-N
Air Inlet Port Size	3/8 npt(f)
Fluid Inlet Port Size	1-1/2 npt(f)
Fluid Outlet Port Size	1/2 npt(f)
Line Length‡	Up to 500 ft (152.5 m)
Dispense Points	1 to 3
Annual Usage	Up to 35,500 gal (132,000 l)
Typical Applications	Continuous duty, maintenance facility dispensing motor oil, gear oil, automatic transmission fluid, hydraulic fluid

Ordering Information

Fire-Ball 300 5:1 Pump	
203876	5:1 Universal Oil Pump
203872	5:1 Oil Pump, 16 gal (120 lb) drum size, for cover mount
203857	5:1 Oil Pump, 55 gal (400 lb) drum size, for cover mount
204254	5:1 Oil Pump, 55 gal (400 lb) drum size, bung mount
222087	5:1 Oil Pump, 275 gal (1040 lb) tank size, bung mount

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 425 3:1

Air-Powered Oil Pumps and Packages

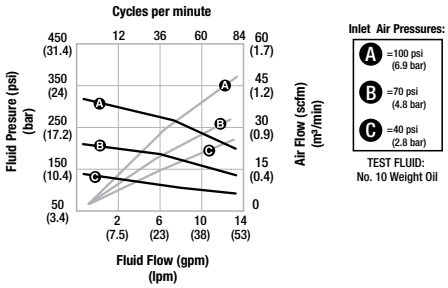
Features and Benefits

- In-line design with fewer parts for less pump wear
- Differential air motor ensures smooth pumping
- Double-acting pump provides reliable fluid flow

Typical Applications

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

Pump Performance



Typical Fluids Handled

- Petroleum- and synthetic-based oils

237526

Technical Specifications

Cycles per Gallon	6 (1.6 liters)
Fluid Flow gal/min @ 80 cpm	13.4 (50.6 liters)
Maximum Fluid Pressure	540 psi (37 bar)
Air Motor Effective Diameter	4.25 in (107.9 mm)
Air Operating Range	40-180 psi (2.8-12 bar)
Approx. Air Use and Flow @ 100 psi and 80 cpm	58 scfm @ 13.4 gpm (1.64 m^3/min @ 50.6 lpm)
Wetted Materials	Steel, Polyurethane, Aluminum, Nitrile
Air Inlet Port Size	1/2 in npt(f)
Fluid Inlet Port Size	1-1/2 in npt(f)
Fluid Outlet Port Size	3/4 in npt(f)
Line Length‡	Up to 250 ft (76.2 m)
Dispense Points	3 to 4
Annual Usage	Over 35,500 gal (132,000 l)
Typical Applications	High flow, low pressure maintenance facility dispensing motor oil, gear oil, automatic transmission fluid, hydraulic fluid

Ordering Information

Fire-Ball 425 3:1 Pump	
237526	3:1 Universal Oil Pump

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 425 6:1

Air-Powered Oil Pumps and Packages

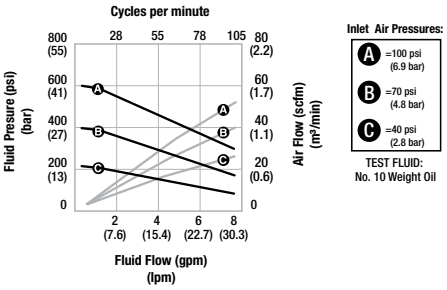
Features and Benefits

- In-line design with fewer parts for less pump wear
- Differential air motor ensures smooth pumping
- Double-acting pump provides reliable fluid flow

Typical Applications

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

Pump Performance



Typical Fluids Handled

- Petroleum- and synthetic-based oils

238108

Technical Specifications

Cycles per Gallon	12 (3.2 liters)
Fluid Flow gal/min @ 80 cpm	6.6 (25.3 liters)
Maximum Fluid Pressure	1100 psi (76 bar)
Air Motor Effective Diameter	4.25 in (107.9 mm))
Air Operating Range	40-180 psi 2.8-12 bar)
Approx. Air Use and Flow @ 100 psi and 80 cpm	49.5 scfm @ 6.8 gpm (.334 m^3/min @ 25.7 lpm)
Wetted Materials	Steel, Polyurethane, Aluminum, Nitrile
Air Inlet Port Size	1/2 in npt(f)
Fluid Inlet Port Size	1-1/2 in npt(f)
Fluid Outlet Port Size	3/4 in npt(f)
Line Length‡	Up to 500 ft (152.5 m)
Dispense Points	3 to 4
Annual Usage	Up to 35,500 gal (132,000 l)
Typical Applications	High flow, medium pressure, maintenance facility dispensing motor oil, gear oil, automatic transmission fluid, hydraulic fluid

Ordering Information

Fire-Ball 425 6:1 Pump	
238108	6:1 Universal Oil Pump

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 425 10:1

Air-Powered Oil Pumps and Packages

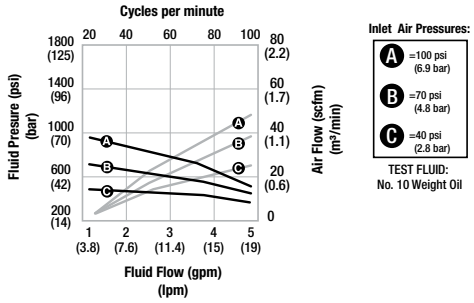
Features and Benefits

- In-line design with fewer parts for less pump wear
- Differential air motor ensures smooth pumping
- Double-acting pump provides reliable fluid flow

Typical Applications

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

Pump Performance



Typical Fluids Handled

- Petroleum- and synthetic-based oils

205626

Technical Specifications

Cycles per Gallon	19.6 (5.2 liters)
Fluid Flow gal/min @ 80 cpm	4.1 (15.4 liters)
Maximum Fluid Pressure	1800 psi (124 bar)
Air Motor Effective Diameter	4.25 in (107.9 mm)
Air Operating Range	40-180 psi (2.8-12 bar)
Approx. Air Use and Flow @ 100 psi and 80 cpm	32 scfm @ 4.1 gpm (.555 m^3/min @ 15.4 lpm)
Wetted Materials	Steel, Polyurethane, Aluminum, Nitrile
Air Inlet Port Size	1/2 in npt(f)
Fluid Inlet Port Size	1-1/2 in npt(f)
Fluid Outlet Port Size	3/4 in npt(f)
Line Length‡	Up to 750 ft (228.6 m)
Dispense Points	3 to 4
Annual Usage	Over 35,500 gal (132,000 l)
Typical Applications	Long distance, maintenance facility dispensing motor oil, gear oil, automatic transmission fluid, hydraulic fluid

Ordering Information

Fire-Ball 425 10:1 Pump	
205626	10:1 Universal Oil Pump
222065	10:1 Oil Pump, 55 gal (400 lb) drum size, cover mount
222095	10:1 Oil Pump, 55 gal (400 lb) drum size, bung mount

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® Oil Pump Packages

Air-Powered Oil Pumps and Packages

Mini Fire-Ball 225 and Fire-Ball 300 Ordering Information

Packages	Portable	Cover-Mounted		Bung-Mounted		Universal
Container Size	16 gal (60 l)		55 gal (200 l)		275 gal (1040 l)	Universal
Mini Fire-Ball 225, 3:1 Package	**246903** [4]	**246904** [4]	**246906** [4]	**246907** [3], [4]		**248230** [3], [4]
Mini Fire-Ball, 225 3:1 Pump	248097 [1], [3]					246775
Fire-Ball 300, 5:1 package	**225728** [2], [4]	**225094** [3], [4]	**225642** [3], [4]	**225640** [3], [4]	**225931** [3], [4]	**225852** [3], [4]
Fire-Ball 300 Pump	203872		203857	204254	222087	203876
Dispense/Hose Fitting Kit	237075	222063				222062
Fluid Hose	6 ft x 1/2 in (1.8 m x 12.7 mm)					1.5 ft x 1/2 in (0.5 m x 9.5 mm)
Air Hose	—	6 ft x 3/8 in (1.8 m x 9.5 mm)				1.5 ft x 3/8 in (0.5 m x 9.5 mm)
Air Regulator	224512			—	—	—
Cover	24R350		200326	—	—	—
Caster Base	203622	—	—	—	—	—
Bung Adapter for 300, 5:1	—	—	—	222308		—
225, 3:1 Manual	309868					
300, 5:1 Manual	307884	307883				306520

[1] 248097 includes suction tube (15C502) and bung adapter (222308)

[2] Use 3/8 in (9.5 mm) installation kit (224512) as required

[3] Use 3/8 in (9.5 mm) air regulator 109075 as required; must be ordered separately

[4] Order low-level cut-off 203688 (1 1/2 inch NPT) separately for metered dispense systems

Fire-Ball 425 Package Ordering Information

Packages	Cover-Mounted	Bung-Mounted	Universal Supply	Wall-Mounted
Container Size	55 gal (200 l)		Universal	
Fire-Ball 425, 3:1 Package	**—**	**—**	**—**	**244846**[3]
Fire-Ball 425, 3:1 Pump	—	—	—	237526
Fire-Ball 425, 6:1 Package	**—**	**—**	**—**	**244628** [3]
Fire-Ball 425, 6:1 Pump	—	—	—	238108
Fire-Ball 425, 10:1 Package	**225782** [1] [2]	**225786** [1] [2]	**225853** [1] [2]	**244847**
Fire-Ball 425, 10:1 Pump	222065	222095	205626	205626
Hose/Fitting Kit	222066		222068	
Fluid Hose	6 ft x 3/4 in (1.8 m x 19.05 mm)		1.5 ft x 3/4 in (0.5 m x 19.05 mm)	
Air Hose	6 ft x 1/2 in (1.8 m x 12.7 mm)		1.5 ft x 1/2 in (0.5 m x 12.7 mm)	
Cover	200326	—	—	—
Filter Regulator	—	—	—	217072
Air Shutoff Valve	—	—	—	110225
Fluid Shutoff Valve	—	—	—	108537
Wall Mount Bracket	—	—	—	238245
Instruction Manual	307883		306520	309351

[1] Use 1/2 in (12.7 mm) air regulator (104266) and air pressure gauge (100960) as required; must be ordered separately—see mounting accessories section

[2] Order low-level cut off (203688) separately for metered dispense systems—see mounting accessories section

[3] Includes pump plus: Filter Regulator (217072), Hose and Fitting Kit (222068), Air Shutoff Valve (110225), Fluid Shutoff (108537), Wall Mount Bracket, (238245)

Cover-mounted

Bung-mounted

Universal Supply

Portable

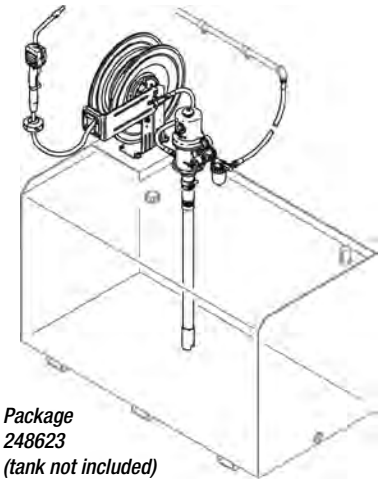
Fluid Dispense Packages

Air-Powered Oil Pumps and Packages

Mini Fire-Ball® 225, 3:1 Bulk-Oil Dispensing Packages

Mini Fire-Ball 225, 3:1 Pump Package	
248623*	Includes: Mini Fire-Ball 225, 3:1 Universal pump with bung adapter and down tube (248097), SD Series reel with 50 ft (15.2 m) x 1/2 in (12.7 mm) fluid hose (HPM65B), LDM5 meter (256215)
248622*	Includes: Mini Fire-Ball 225, 3:1 Universal pump with bung adapter and down tube (248097), SD Series reel with 35 ft (11 m) x 1/2 in (12.7 m) fluid hose (HPM33B), LDM5 meter (256215)

**Order 218549 (1/2 in x 24 in) hose reel inlet kit separately NOTE: Tanks not included*

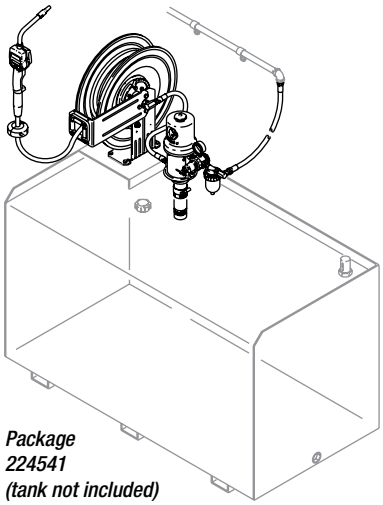


Package 248623 (tank not included)

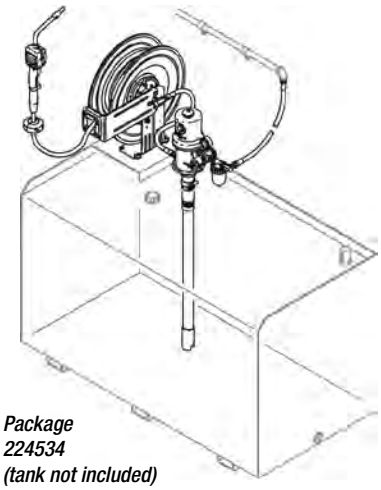
Fire-Ball 300, 5:1 Deluxe Bulk-Oil Dispensing Packages

Fire-Ball 300, 5:1 Pump Packages	
241633*	Includes: Fire-Ball 300, 5:1 pump universal (203876), 3/8 in (9.5 mm) regulator/gauge (109075), 3/8 in (9.5 mm) x 3/8 in (9.5 mm) nipple (156849), 2 in (50.8 mm) bung adapter (222308), SD Series reel with 35 ft (11 m) x 1/2 in (12.7 mm) hose (HPM33B), SDM5 meter (255350)
224541*	Includes: Fire-Ball 300, 5:1 pump universal (203876), 3/8 in (9.5 mm) regulator/gauge (109075), 3/8 in (9.5 mm) x 3/8 in (9.5 mm) nipple (156849), 2 in (50.8 mm) bung adapter (222308), SD Series reel with 50 ft (15.3 m) x 1/2 in (12.7 mm) hose (HPM65B), 18 in (45.7 cm) hose (220598), 90º swivel (inlet on hose reel) (157416), SDM5 meter (255350)
244038*	Includes: Fire-Ball 300, 5:1 pump universal (203876), 3/8 in (9.5 mm) regulator/gauge (109075), 3/8 in (9.5 mm) x 3/8 in (9.5 mm) nipple (156849), 2 in (50.8 mm) bung adapter (222308), SD Series reel with 50 ft (15.3 m) x 1/2 in (12.7 mm) hose (HPM65B), 18 in (45.7 cm) hose (220598), 90º swivel (157416), SDP5 meter (255200)
224534*	Dispensing from Bench-Top Tanks with Fire-Ball 300, 5:1 Pump Package. Includes: Fire-Ball 300, 5:1 pump, Universal (203876), 3/8 in (9.5 mm) regulator/gauge (109075), Air filter (106148), 3/8 in (9.5 mm) x 3/8 in (9.5 mm) nipple (156849), SD Series reel with 50 ft (15.3 m) x 1/2 in 12.7 mm) hose (HPM65B), Drain valve (106151), 72 in (182.9 cm) hose kit (222063), Thermal relief valve (237893), 90º swivel (157416), SDM5 Meter (255350)

**Order 218549 (1/2 in x 24 in) hose reel inlet kit separately NOTE: Tanks not included*



Package 224541 (tank not included)



Package 224534 (tank not included)

Fire-Ball® and Oil Pump Accessories

Air-Powered Oil Pumps and Packages

Hose and Fittings Kits for Mini Fire-Ball 225, 3:1 and Fire-Ball 300, 5:1 Pumps	
222062	18 in (0.5 m) for connecting wall-mounted Mini Fire-Ball 225, 3:1 and Fire-Ball 300, 5:1 pumps to piping. Includes air hose (204560) with swivel elbow (155494), fluid hose (220598) with swivel elbow (155470). Instruction manual 306520
222063	6 ft (1.8 m) for use with drum-mounted Mini Fire-Ball 225, 3:1 and Fire-Ball 300, 5:1 pumps. Includes air hose (203320) with swivel elbow (155494), fluid hose (220591) with swivel elbow (155470). Instruction manual 307883
Dispense Kits for Mini Fire-Ball 225, 3:1 and Fire-Ball 300, 5:1 Pumps	
237075	6 ft (1.8 m) for use with portable lubricators powered by the Fire-Ball 300, 5:1. Includes fluid hose (220591) and SDM5 gear lube valve (255349). Instruction manual: 307884
Hose and Fittings Kits for Fire-Ball 425, 3:1, 6:1 and 10:1	
222068	18 in (0.5 m) for connecting wall-mounted Fire-Ball 425, 10:1 pumps to piping. Includes air hose (218093) with swivel elbow (155470), fluid hose (109108) with swivel elbow (160327). Instruction manual: 306520
238246	24 in (0.6 m) for use with Fire-Ball 425, 3:1 and 6:1 wall-mounted pumps to piping. Includes air hose (218093) with swivel elbow (155470), fluid hose (238247) with swivel elbow (160327)
222066	6 ft (1.8 m) for use with drum-mounted Fire-Ball 425, 10:1 pumps. Includes air hose (205418) with swivel elbow (155470), fluid hose (109105) with swivel elbow (160327). Instruction manual: 307883
Suction Kits	
236054	6 ft (1.8 m) Suction Kit for 55 gal. (200 l) drums. Includes: 55 gal. (200 l) drum tube, bung adapter and 6 ft (1.8 m) of 3/4 in fluid hose with 3/4 in ID x 1-1/2 in bushing to adapt to any universal Graco oil pump. Allows use of Fast-Ball 1:1, Mini Fire-Ball 225, 3:1, Fire-Ball 300, 5:1 or Fire-Ball 425, 10:1 universal pumps with barrels. Order wall brackets separately. Use with low-level cut-off (203688) when metering fluids. Instruction manual: 308335
Drum Covers	
200326	Cover for open-head 55 gal (200 l) drums. Use with Mini Fire-Ball 225, 3:1, Fire-Ball 300, 5:1 or Fire-Ball 425, 10:1 pump. Use adapter 160754 for cover-mounting bung-style pumps
24R350	Cover for open-head 16 gal (60 l) or 70 lb (32 kg) drums. Mounts Fast-Ball 1:1, Mini-Fire-Ball or Fire-Ball pumps
222058	Cover for 5 gal (20 l) pails. Mounts Fast-Ball 1:1, Mini Fire-Ball 225, 3:1, Fire-Ball 300, 5:1 and 15:1 pumps. Bung adapter (222308) and bung adapter plate (160754) sold separately
160754	Bung-adapter plate for 55 gal (200 l) or 16 gal (60 l) covers. Mounts to 55 gallon (400 lb; 200 l), 16 gal (120 lb; 60 l) drum or 5 gal (20 1) pail covers and converts mounting to standard 2 npt bung opening. Allows use of bung-mounted pumps with drum covers
Wall-Mounting Brackets	
203987	For universal Fast-Ball 1:1, Mini Fire-Ball 225, 3:1, Fire-Ball 300, 5:1 and Fire-Ball 425, 10:1 pumps. Clamps onto universal pump tube
238245	For use with Fire-Ball 425, 3:1, 6:1 and 10:1 pumps. Mounts directly to pump flange
236778	For use with Fire-Ball 425, 3:1, Dyna-Star 1/4:1 and Power-Star 1:1 pumps. Clamps to pump tube and provides mounting to wall surface by flange
Clamps	
203156	Open-drum pump clamp. Attaches to side of open-head drum and mounts on any size pump except Fire-Ball 425, 3:1
210880	Open-drum pump clamp for Fire-Ball 300, 5:1 and Fire-Ball 425, 10:1 pumps. Clamps onto pump tube and attaches to open-drum lip
Tools for Working on Fire-Ball Air Motors	
207579	Padded pliers
171818	Poppet gauge
168085	Insert tool
Carts	
203650	Cart for 5, 10 and 16 gal (20, 40, and 60 l) drums. Drums fit into recess on formed base. Rim clamps secure drum to cart. Use with pail clamp (159952) when using cart with 5 gal (20 l) pails
222243	Heavy-Duty Cart with Pneumatic Wheels for 120 lb (55 kg) drums. Used for moving lubrication equipment over rough terrain. Requires: Hold down kit (222061)
111470	55 gal (200 l) Drum Truck. Heavy-duty drum truck secures 55 gal (200 l) drum on roll-around base

200326

204574

160754

203987

203156

210880

203650

111470

Fire-Ball® and Oil Pump Accessories

Air-Powered Oil Pumps and Packages

Ordering Information

Portable Bases	
205054	Band Dolly for 5 gal (20 l) pails (11-1/2 in ID)
204144	Band Dolly for 10 and 16 gal (40 and 60 l) drums (14 in ID)
203622	Caster Base for 5, 10 and 16 gal (20, 40 and 60 l) drums
Drum Elevator	
241663	Air-powered elevator to speed-up 55 gal (200 l) drum changes. Maximum raised height is 39.5 in (100.3 cm). Includes cover support (207562), drum elevator (204385), and air control kit (207561)
Suction Tubes For Pumps	
238592	For 16 gal (60 l) cover-mounted Fast-Ball 1:1, Mini Fire-Ball 225, 3:1, Fire-Ball 300, 5:1 and Fire-Ball 425, 10:1. Use bung adapter 222308 on all current production models. Includes (191126) 14-1/2 in (0.36 m) extension (110127) foot spacer
238593	For 55 gal (200 l) cover-mounts. Includes (191128) 21-3/4 in (0.55 m) extension (110127) foot spacer
238595	For 55 gal (200 l) bung-mounted Fast-Ball 1:1, Mini Fire-Ball 225, 3:1, Fire-Ball 300, 5:1 and Fire-Ball 425, 10:1. Use bung adapter 222308 on all current production models. Includes (191130) 26 in (0.66 m) extension (110127) foot spacer
238596	For 275 gal (1100 l) bung-mounts. Includes (191131) 36 in (0.91 m) extension (110127) foot spacer
15C502	Universal Down Tube 1-1/2 in tube marked for standard container lengths from 20-41 in (0.51-1.04 m)
Bung Adapters	
222308	For Fast-Ball 1:1; Mini Fire-Ball 225, 3:1; Fire-Ball 300, 5:1; and Fire-Ball 425, 10:1 Pumps. Allows direct mounting of all universal length and extended Fast-Ball 1:1, Mini Fire-Ball 225, 3:1, Fire-Ball 300, 5:1 and Fire-Ball 425, 10:1 pumps into standard 2 npt drum bung
238125	For Mini Fire-Ball 225, 3:1; Fire-Ball 300, 5:1; and the Fire-Ball 425, 10:1. Includes double tap bushing (191075), 1 ft 3/8 in hose (238370), and 90º 3/8 in adapter (155494) for mounting universal pumps to tanks (see 308403 for details)
214583	For Fast-Flo 1:1 Pumps, allows direct mounting of full-length pump into standard 2 npt drum bung. Comes with bushing sleeve (172405)
187754	Acetal Bung Adapter includes (100220) thumbscrew (for Fire-Ball 300, 15:1 SST undercoating pump)
176684	Bung Adapter for Suction Kit (203992). Includes (100220) thumbscrew
Sealed Bung Adapters (prevents rain water and other fluids from entering drum when pump is outdoors.)	
204076	Sealed bung adapter for full-length Fire-Ball with 2-1/8 in (53.9 mm) bung and Mini Fire-Ball 225, 3:1 (2.140 inch diameter)
224579	Sealed bung adapter for universal length Fire-Ball pumps, 2.159 inch diameter (will not fit Mini Fire-Ball 225, 3:1 or old style pumps with bottom foot valve)
217359	Sealed bung adapter for Fast-Flo pumps; can be used with suction kit 236054
Low-Level Cut-Offs (Prevents air from entering pump by closing intake when fluid supply to pump is exhausted. Can be used with suction hose kit or standard suction tube without changing tube length.)	
203688	Low-level cut-offs for Fast-Ball and Fire-Ball pumps that have a universal design with suction tube extension supplying metered outlets; replaces stand-off suction tube; 1.5 npt (f) inlet. 3 in (76 mm) h
Thermal Relief Valve Kits (includes valve, hose and fittings)	
235998	Mini Fire-Ball 225, 3:1 thermal relief valve rated to 600 psi (41 bar)
237893	Fire-Ball 300, 5:1 and Fire-Ball 425, 6:1 thermal relief valve rated to 900 psi (62 bar)
248296	Fire-Ball 300, 5:1 and Fire-Ball 425, 6:1 thermal relief valve rated to 900 psi (62 bar) (same as 237893 minus bung adapter and swivel. Includes 6 foot hose)
237601	Fire-Ball 425, 3:1 thermal relief valve rated to 600 psi (41 bar)
240429	Fire-Ball 425, 10:1 thermal relief valve rated to 1600 psi (110 bar)
248324	Fire-Ball 425, 10:1 thermal relief valve rated to 1600 psi (110 bar) (same as 240429 minus bung adapter and swivel. Includes 6 foot hose)
238899	Diaphragm pump thermal relief valve rated to 150 psi (10.4 bar)
112353	Diaphragm pump thermal relief valve for fuel dispense; rated to 50 psi (3.4 bar), valve only

204144

203622

241663

203688

Fire-Ball® and Oil Pump Accessories

Air-Powered Oil Pumps and Packages

Ordering Information

Bleed-Type Air Shut-Off Valves (rated to 250 psi [17.4 bar]) Female ends	
110223	1/4 in (6.4 mm)
110224	3/8 in (9.5 mm)
110225	1/2 in (12.7 mm)
110226	3/4 in (19.1 mm)
Fluid Shut-Off Valves (rated to 2,000 psi [138 bar]) For isolating oil dispense lines.	
108458	1/2 in (12.7 mm)
108537	3/4 in (19.1 mm)
110314	1 in (25.4 mm)
Fluid T-Strainers 60 Mesh Strainer, 1,500 psi (103 bar) working pressure. Prevents foreign material from entering dispense lines. Not for use with grease lines.	
240417	1/2 in npt(f) swivel x 1/2 in npt(m) ports
240418	3/8 in npt(f) x 3/8 in npt(m) ports

108458

240417

Mesh Strainer Replacement for 240417		
3 replacement Elements	25 replacement Elements	Mesh
238433	238434	40 mesh
238431	238432	60 mesh (standard)
238429	n/a	100 mesh

101078

Y-Strainers 400 psi (28 bar) max. working pressure filters material before it enters the pump. 20 mesh screen.		
Y-Strainer	Replacement Screens	Inlet/Outlet
101078	180199	3/4 npt(f) both ends
110877	110906	1/2 npt(f) both ends
110878	110907	1 npt(f) both ends

Mounting Accessories

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

**Filter, Regulator, Lubricator and Gauge*
***Recommend 1-1/2 in, 6 ft hose assembly as suction kit*
‡Must be wall-mounted or flange-mounted

NXT™ High-Flo®
Air-Powered Oil Pumps and Packages

Features and Benefits

- Move large amounts of oil fast–dispenses up to 31 gallons of oil per minute
- Tested to outperform and outlast all other pumps on the market with its long-life packing design
- Models available with intuitive, easy-to-use DataTrak™ controls–gives you pump diagnostics, material usage tracking and pump runaway protection
- Reduces icing and noise–new NXT air motor is up to 50% quieter than previous models

Typical Applications

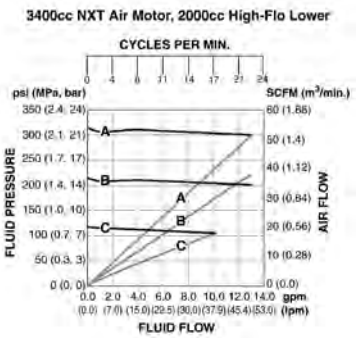
- In-plant to supply long-pipe runs or large volume header systems with multiple dispense locations
- Fill remote reservoirs or feed an automated lubrication system
- Transfer and dispense large amounts of lubricant to supply a production process
- Mines/construction for rapid refill of lube trucks and to service off-road equipment

Package Number with DataTrak		**247888**	**247889**	**247892**	**247893**
Package Number without DataTrak		**24D602**	**24D603**	**24D606**	**24D607**
Pump Specifications	Ratio	3.5:1	4.5:1	6:1	6:1
	Mounting	Wall (255143)	Wall (255143)	Wall (255143)	Stand (218742)
	Pump with thermal relief and DataTrak	24D590	24D591	24D594	24D594
	Pump with thermal relief w/o DataTrak	24D596	24D597	24D600	24D600
	Output per Cycle	2000cc	1500 cc	2000 cc	2000 cc
	Output at 60 CPM*	31.5 gpm (119.2 lpm)	23.2 gpm (87.8 lpm)	31.5 gpm (119.2 lpm)	31.5 gpm (119.2 lpm)
	Motor Size	NXT 3400		NXT 6500	
	Maximum Fluid Pressure	350 psi (24.1 bar)	450 psi (31.0 bar)	500 psi (35.2 bar)	
	Maximum Air Input Pressure	100 psi (6.9 bar)		75 psi (5.2 bar)	
Manuals	System Manual	312862			
	Pump Manual	311211		311831	
	Pump Lower Manual	311690		311832	
	Motor Manual	311238			
Inlet/ Outlet	Pump Inlet Size	1 1/2 in npt (f)		2 in npt (f)	
	Pump Outlet Size	1 in npt (f)		2 in npt (f)	
Hoses	3/4 in x 4 ft Air Hose	110048			
	1 in x 6 ft Fluid Hose	115042		247969	

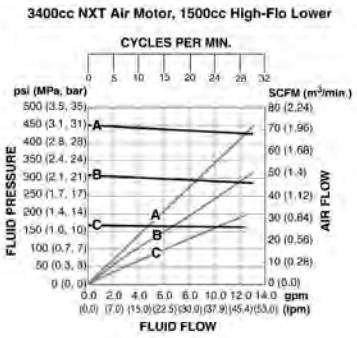
**Graco recommends 20 CPM or less for supply applications*

Performance Charts

A = 100 psi (7.0 bar) air pressure
B = 70 psi (4.9 bar) air pressure
C = 40 psi (2.8 bar) air pressure

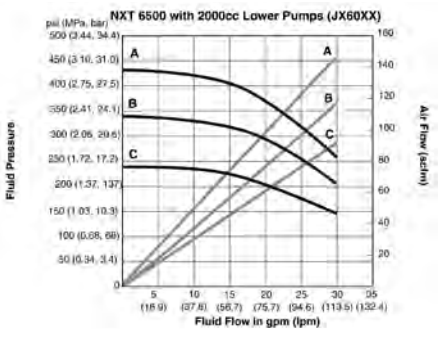


A = 100 psi (7.0 bar) air pressure
B = 70 psi (4.9 bar) air pressure
C = 40 psi (2.8 bar) air pressure



Test Fluid is No. 10 Weight Oil for all pumps

A = 70 psi (4.9 bar) air pressure
B = 55 psi (3.7 bar) air pressure
C = 40 psi (2.8 bar) air pressure

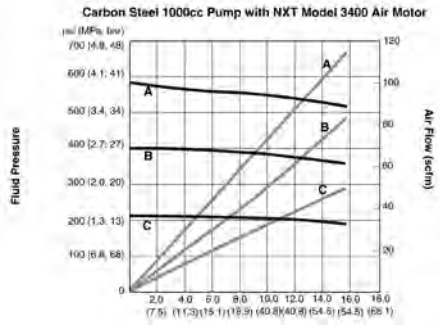


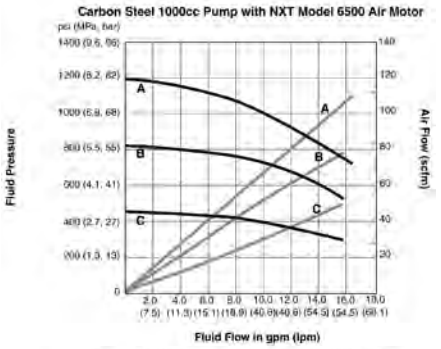
NXT™ Dura-Flo®
Air-Powered Oil Pumps and Packages

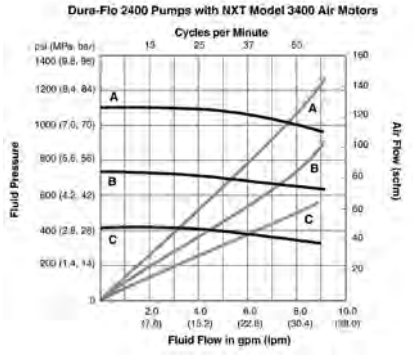
Performance Charts

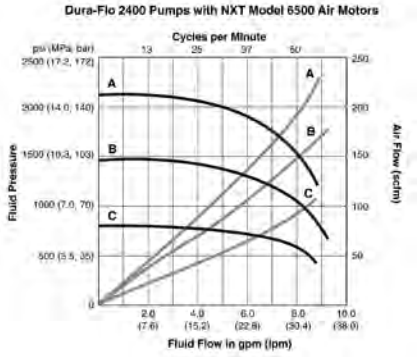
A = 7 bar (100 psi) air pressure or 105 bar (1500 psi) hydraulic oil pressure
B = 4.9 bar (70 psi) air pressure or 75 bar (1050 psi) hydraulic oil pressure
C = 2.8 bar (40 psi) air pressure or 42 bar (600 psi) hydraulic oil pressure

Test Fluid is No. 10 Weight Oil for all pumps









Package Number with DataTrak		247890	247894	247891	247895
Package Number without DataTrak		24D604	24D608	24D605	–
Pump Specifications	Ratio	6:1	10:1	12:1	23:1
	Mounting	Wall (255143)			
	Pump with DataTrak and thermal relief kit	24D592	24D595	24D593	–
	Pump w/o DataTrak and thermal relief kit	24D598	24D601	24D599	–
	Output per Cycle	1000cc		580cc	
	Output at 60 CPM*	17.4 gpm (65.9 lpm)		9.2 gpm (34.8 lpm)	
	Motor Size	NXT 3400	NXT 6500	NXT 3400	NXT 6500
	Max. Fluid Pressure	620 psi (42.7, 4.3 bar)	1180 psi (81.3 bar)	1190 psi (82.1 bar)	1725 psi (118.9 bar)
	Max. Air Input Pressure	100 psi (6.9 bar)			75 psi (5.2 bar)
Manuals	System Manual	312862			
	Pump Manual	311833		311826	
	Pump Lower Manual	311717		311825	
	Motor Manual	311238			
Inlet/ Outlet	Pump Inlet Size	2 in npt(f)			
	Pump Outlet Size	1 1/2 in npt(m)			
Hoses	3/4 in x 4 ft Air Hose	110048			
	1 in x 6 ft Fluid Hose	115042			

**Graco recommends 20 CPM or less for supply applications*

Grease Pumps Quick Reference

Technical Specifications and Selection Chart

	Annual Usage	Line Length‡	Dispense Points	Air Inlet	Material Inlet	Material Outlet
	LD Series, 50:1					
	7,000 lb (3,125 kg)	300 ft (91 m)	1 to 2	1/4 in npt(f)	Priming Piston	1/4 in npt(f)
	Mini Fire-Ball 225, 50:1					
	10,000 lb (4,535 kg)	100 ft (30 m)	1	3/8 in npt(f)	Slotted	1/4 in npt(f)
	Fire-Ball 300, 50:1					
	10,000 lb (4,535 kg)	250 ft (76 m)	1 to 2	3/8 in npt(f)	Slotted	1/4 in npt(f)
	Fire-Ball 425, 50:1					
	20,000 lb (9,072 kg)	250-500 ft (76-152 m)	4 or more	1/2 in npt(f)	Slotted	3/8 in npt(f)
	Fire-Ball 425, 75:1					
	20,000 lb (9,072 kg)	250-500 ft (76-152 m)	4 or more	1/2 in npt(f)	Slotted	3/8 in npt(f)
	Fire-Ball 300, 15:1					
	10,000 lb (4,535 kg)	250 ft (76 m)	1 to 2	3/8 in npt(f)	Slotted	1/4 in npt(f)
	Fire-Ball 425, 10:1					
	20,000 lb (9,072 kg)	250-500 ft (76-152 m)	4 or more	1/2 in npt(f)	Slotted	1 in npt(f)

‡ Consult your local authorized Graco representative for line or pipe sizing

Grease Pumps Quick Reference

Technical Specifications and Selection Chart

Annual Usage	Line Length‡	Dispense Points	Pump Ratio(s)	Output Per Cycle	Fluids
Check-Mate, 14:1**					
20,000 lb (9,072 kg)	Up to 100 ft (76 m)	1	14:1	500 cc	Grease
Check-Mate, 26:1					
20,000 lb (9,072 kg)	Up to 250 ft (76 m)	1-2	26:1	500 cc	Grease
Check-Mate, 29:1					
20,000 lb (9,072 kg)	Up to 250 ft (76 m)	4 or more	29:1	250 cc	Grease
Check-Mate, 55:1					
20,000 lb (9,072 kg)	Up to 250 ft (76 m)	1-2	55:1	250 cc	Grease
Check-Mate, 63:1**					
20,000 lb (9,072 kg)	Up to 250 ft (76 m)	1-2	63:1	100 cc	Grease
Check-Mate, 68:1**					
20,000 lb (9,072 kg)	Up to 500 ft (152 m)	1-2	68:1	200 cc	Grease

‡ Consult your local authorized Graco representative for line or pipe sizing
***NXT Check-Mate pump is available in floor stand or RAM Package.*

LD Series 50:1 Pump

Air-Powered Grease Pumps and Packages

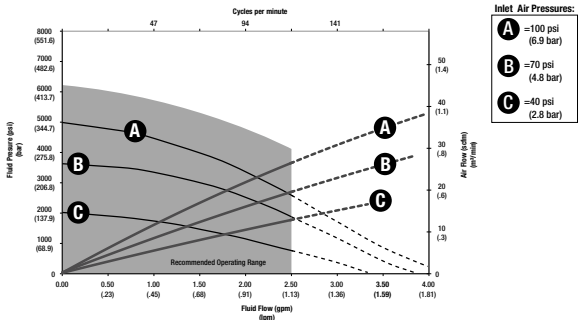
Features and Benefits

- Three inch air motor provides more power to create better flow
- Cup and plate design eliminates the need for O-rings that wear out faster

Typical Applications

- Medium pressure, low to medium volume grease dispense
- Automotive dealerships
- Fast lube centers
- Service shops
- Lube trucks

Pump Performance



Technical Specifications

Maximum Fluid Working Pressure	7500 psi (517 bar, 51.7 MPa)
Fluid Pressure Ratio	50:1
Air Operation Range	20 to 150 psi (1.37 to 10.3 bar)
Recommended Air Pressure (for optimum life)	<125 psi (8.6 bar, 0.86 MPa)
Max Recommended Pump Speed	120 cycles per minute
Cycles Per Gallon/pound (l/kg)	247 cycles per pound (103 cycles per kg)
Recommended Pump Speed (for maximum life)	60 cycles per minute or lower
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 pound drum–11.2 pounds (5.1 kg), 120 pound drum–15.0 pounds (6.8 kg), 400 pound drum– 17.0 pounds (7.7 kg)
Air Inlet	1/4 in
Fluid Inlet	Priming Piston
Fluid Outlet	1/4 in
Free Flow*	5 lb/min
Annual Usage	Up to 7,000 lb (3175 kg)

LD Series 50:1 Pump

Ordering Information

LD Series 50:1 Pumps	
24G600	35 lb (16 kg) Grease Pump - 50:1
24G603	120 lb (55 kg) Grease Pump - 50:1
24G606	400 lb (180 kg) Grease Pump - 50:1

LD Series Pump Packages and Accessories

Air-Powered Grease Pumps and Packages

Ordering Information

50:1 Grease Packages (drums not included)	
24J030	35# Portable Grease package includes: 50:1 35# (16 kg) Grease pump (24G600), 6 ft Grease hose kit (24H862), 35# follower plate (24F901), 35# Drum cover (24F904), Grease valve (242056), Z-swivel (202577)
24J036	120# Stationary Grease Package includes: 50:1 120# Grease pump (24G603), 6 ft Grease hose kit (24H862), 120# follower plate (24F902), 120# Drum cover (24F905), Grease valve (242056), Z-swivel (202577)
24J048	120# Mobile Grease Package includes: 50:1 120# pump (24G603), 6 ft hose kit (24H862), 120# follower plate (24F902), 120# Drum cover (24F905), 120# Cart (24H422), Grease valve (242056), Z-swivel (202577)
24J060	120# Mobile Grease Package with LD Reel. Includes: 50:1 120# Grease pump (24G603), 6 ft Grease hose kit (24J501), 120# follower plate (24F902), 120# Drum cover (24F905), 120# Cart (24H422), LD grease hose reel, 1/4" x 35" (24H663), Grease valve (242056), Z-swivel (202577)
24J042	400# Stationary Grease Package includes: 50:1 400# Grease pump (24G606), hose kit (24H862), 400# follower plate (24F903), 400# Drum cover (24F906), Grease valve (242056), Z-swivel (202577)
24J054	400# Mobile Grease Package. Includes: 50:1 400# Grease pump (24G606), 6 ft hose kit (24H862), 400# follower plate (24F903), 400# Drum cover (24F906), 400# Cart (24F915), Grease valve (242056), Z-swivel (202577)
24J066	400# Mobile Grease Package with and LD Reel. Includes: 50:1 400# Grease pump (24G606), 6 ft Grease hose kit (24J501), 400# follower plate (24F903), 400# Drum cover (24F906), 400# Cart (24F915),LD grease hose reel, 1/4" x 35' (24H663), Grease valve (242056), Z-swivel (202577)
Drum Covers	
24F904	Cover for 35 lb (16 kg) pails
24F905	Cover for open-head 120 lb drums
24F906	Cover for open-head 400 lb drums
24P623	Adjustable bung adapter for LD grease pumps
Follower Plates	
24F901	For 35 lb (16 kg) pails with LD 50:1 pumps
24F902	For 120 lb drum with LD 50:1 pumps
24F903	For 400 lb drums with LD 50:1 pumps
Hose and Fitting Kits	
24H862	6 ft LD pump grease hose kit. Includes 1/4" x 6' grease hose, 3/8" x 6 ft air hose, and fittings
Air Regulators	
24H420	Mini air pressure regulator with valve, 1/4 inch NPT x 3/8 inch NPT
Carts	
24F915	Drum cart with pneumatic wheels for 400 lb drums, includes chain for securing drum to cart
24H422	Drum cart with pneumatic wheels for 120 lb drums, includes chain for securing drum to cart

24J030

24J048

24J060

24J054

24J066

24F915

24H422

24F904

24F901

24P623

24J042

Mini Fire-Ball® 225, 50:1

Air-Powered Grease Pumps and Packages

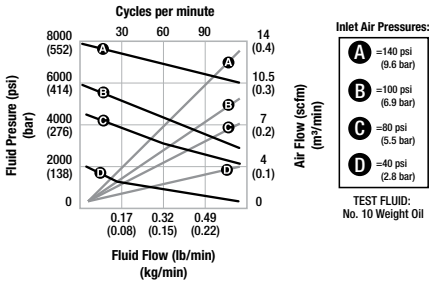
Features and Benefits

- Priming piston pump in combination with the appropriate feeding technology provides positive pump feeding, even with viscous and/or tacky greases
- Non-corrosive air motor design for long life
- Double-acting pump ensures smooth fluid flow
- Robust grease inlet cage withstands the most abusive handling

Typical Applications

- Medium pressure, low to medium volume grease dispense
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube and service centers
- Fleet service facilities
- Lube trucks
- Mining
- In-plant

Pump Performance



Typical Fluids Handled

- Grease up to NLGI #2

Technical Specifications

Continuous-Duty Flow Rate	0.32 lb/min (0.15 kg/min)
Maximum Fluid Pressure	8400 psi (578 bar)
Air Motor Effective Diameter	2.25 in (57.2 mm)
Operating Range	40-140 psi (3-10 bar)
Approximate Air Use	7.3 scfm @ 0.41 lb/min. (.18 kg/min) @ 100 psi @ 80 cpm
Wetted Materials	Steel, Urethane, Aluminum, Buna-N, Brass, Ethylene, Delrin®
Air Inlet Port Size	3/8 in npt(f)
Material Inlet	Slotted
Material Outlet	1/4 in npt(f)
Line Length‡	Up to 100 ft (30.5 m)
Dispense Points	1
Annual Usage	Up to 10,000 lb (4,535 kg)

Ordering Information

Mini Fire-Ball 225 50:1 Pumps	
246909	35 lb (16 kg) Grease Pump - 50:1
246780	120 lb (55 kg) Grease Pump - 50:1
246781	400 lb (180 kg) Grease Pump - 50:1

Fire-Ball® 300, 15:1

Air-Powered Grease Pumps and Packages

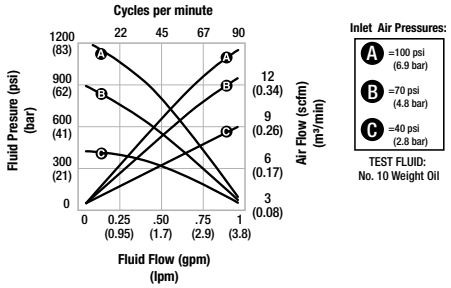
Features and Benefits

- Priming piston pump in combination with the appropriate feeding technology provides positive pump feeding, even with viscous and/or tacky greases
- Non-corrosive air motor design for long life
- Double-acting pump ensures smooth fluid flow
- Robust grease inlet cage withstands the most abusive handling

Typical Applications

- Medium pressure, low to medium volume grease dispense
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube and service centers
- Fleet service facilities
- Lube trucks
- Mining
- In-plant

Pump Performance



Typical Fluids Handled

- Grease up to NLGI #0

Technical Specifications

Continuous-Duty Flow Rate ..... 0.7 gpm
Maximum Fluid Pressure ..... 2700 psi (186 bar)
Air Motor Effective Diameter ..... 3 in (7.6 cm)
Operating Range ..... 40-180 psi (2.8-12.5 bar)
Approximate Air Use ..... 17 cfm@ 100 psi (7 bar)
Wetted Materials ..... CS, AL, Leather, PTFE, Rubber
Air Inlet Port Size ..... 3/8 in npt(f)
Material Inlet ..... 1 in npt(f) Straight Inlet
Material Outlet ..... 1/4 in npt(f)
Line Length‡ ..... Up to 250 ft (76.2 m)
Dispense Points ..... 1 to 2
Annual Usage ..... Up to 10,000 lb (4,535 kg))

Ordering Information

Fire-Ball 300 15:1 Pumps	
206405	35 lb (16 kg) Grease Pump - 15:1
206699	120 lb (55 kg) Grease Pump - 15:1
206700	400 lb (180 kg) Grease Pump - 15:1

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 300, 50:1

Air-Powered Grease Pumps and Packages

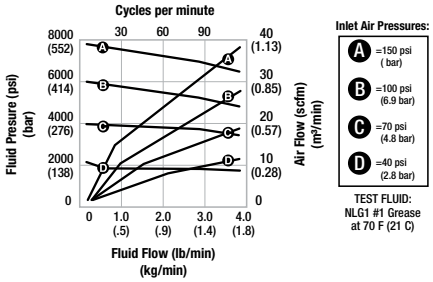
Features and Benefits

- Priming piston pump in combination with the appropriate feeding technology provides positive pump feeding, even with viscous and/or tacky greases
- Non-corrosive air motor design for long life
- Double-acting pump ensures smooth fluid flow
- Robust grease inlet cage withstands the most abusive handling

Typical Applications

- Medium pressure, low to medium volume grease dispense
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube and service centers
- Fleet service facilities
- Lube trucks
- Mining
- In-plant

Pump Performance



Typical Fluids Handled

- Grease up to NLGI #2

Technical Specifications

Continuous-Duty Flow Rate	1.19 lb/min. (.54 kg/min.)
Maximum Fluid Pressure	8400 psi (580 bar)
Air Motor Effective Diameter	3 in (76.2 cm)
Operating Range	30-140 psi (3.0-9.7 bar)
Approximate Air Use	22.8 cfm @ 100 psi (7 bar)
Wetted Materials	CS, Delrin®, Buna-N, Polyurethane
Air Inlet Port Size	3/8 in npt(f)
Material Inlet	Slotted
Material Outlet	1/4 in npt(f)
Line Length‡	Up to 250 ft (76.2 m)
Dispense Points	1 to 2
Annual Usage	Up to 10,000 lb (4,535 kg)

Ordering Information

Fire-Ball 300 50:1 Pumps	
239877	35 lb or 70 lb (16 kg or 32 kg) Grease Pump - 50:1
239887	120 lb (55 kg) Grease Pump - 50:1
239888	400 lb (180 kg) Grease Pump - 50:1

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 425, 10:1

Air-Powered Grease Pumps and Packages

Features and Benefits

- Priming piston pump in combination with the appropriate feeding technology provides positive pump feeding, even with viscous and/or tacky greases
- Non-corrosive air motor design for long life
- Double-acting pump ensures smooth fluid flow
- Robust grease inlet cage withstands the most abusive handling

Typical Applications

- Medium pressure, low to medium volume grease dispense
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube and service centers
- Fleet service facilities
- Lube trucks
- Mining
- In-plant

Typical Fluids Handled

- Grease up to NLGI #2

Technical Specifications

Continuous-Duty Flow Rate	3.5 gpm
Maximum Fluid Pressure	1800 psi (124 bar)
Air Motor Effective Diameter	4.25 in (10.8 cm)
Operating Range	40-180 psi (2.8-12.5 bar)
Approximate Air Use	13 cfm @ 100 psi (7 bar)
Wetted Materials	Steel, Brass, Aluminum, Leather, Buna-N
Air Inlet Port Size	1/2 in npt(f)
Material Inlet	Slotted
Material Outlet	1 in npt(f)
Line Length‡	Up to 500 ft (152.4 m)
Dispense Points	4 or more
Annual Usage	20,000 lb or more (9,072 kg)

Ordering Information

Fire-Ball 425 10:1 Pumps	
965129	Fire-Ball 425, 10:1 pump complete with bung adapter. For open head drum, remove bung adapter and mount to 200326, 400 lb (180 kg) drum cover. Ideal for transferring grease from 400 lb (180 kg) drum or side pocket of tote tank. Can be modified for stubby horizontal mount on tote tanks. For more information contact Lubrication Equipment Technical Assistance
965124	Stubby mount Fire-Ball 425, 10:1 pump only

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 425, 50:1

Air-Powered Grease Pumps and Packages

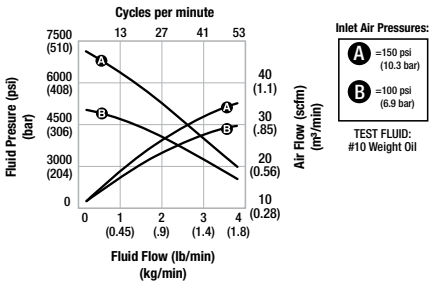
Features and Benefits

- Priming piston pump in combination with the appropriate feeding technology provides positive pump feeding, even with viscous and/or tacky greases
- Non-corrosive air motor design for long life
- Double-acting pump ensures smooth fluid flow
- Robust grease inlet cage withstands the most abusive handling

Typical Applications

- Medium pressure, low to medium volume grease dispense
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube and service centers
- Fleet service facilities
- Lube trucks
- Mining
- In-plant

Pump Performance



Typical Fluids Handled

- Grease up to NLGI #2

Technical Specifications

Continuous-Duty Flow Rate	3.35 lb/min (1.5 kg/min.)
Maximum Fluid Pressure	7500 psi (517 bar)
Air Motor Effective Diameter	4.25 in (10.8 cm)
Operating Range	40-150 psi (2.8-10.4 bar)
Approximate Air Use	19 cfm @ 70 psi (4.8 bar)
Wetted Materials	CS, Leather
Air Inlet Port Size	1/2 in npt(f)
Material Inlet	Slotted
Material Outlet	3/8 in npt(f)
Line Length‡	Up to 250 ft (76.2 m)
Dispense Points	4 or more
Annual Usage	20,000 lb or more (9,072 kg)

Ordering Information

Fire-Ball 425 50:1 Pumps	
205394	120 lb (55 kg) Grease Pump - 50:1
205395	400 lb (180 kg) Grease Pump - 50:1

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® 425, 75:1

Air-Powered Grease Pumps and Packages

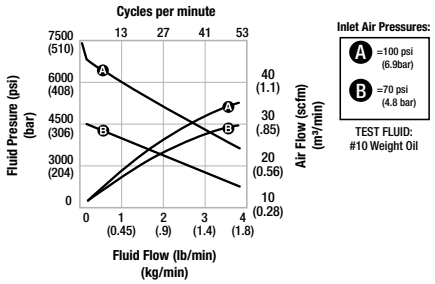
Features and Benefits

- Priming piston pump in combination with the appropriate feeding technology provides positive pump feeding, even with viscous and/or tacky greases
- Non-corrosive air motor design for long life
- Double-acting pump ensures smooth fluid flow
- Robust grease inlet cage withstands the most abusive handling

Typical Applications

- Medium pressure, low to medium volume grease dispense
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube and service centers
- Fleet service facilities
- Lube trucks
- Mining
- In-plant

Pump Performance



Typical Fluids Handled

- Grease up to NLGI #2

Technical Specifications

Continuous-Duty Flow Rate	1.95 lb/min (0.88 kg/min)
Maximum Fluid Pressure	7500 psi (517 bar)
Air Motor Effective Diameter	4.25 in (10.8 cm)
Operating Range	40-100 psi (2.8-7 bar)
Approximate Air Use	26 cfm @ 100 psi (7 bar)
Wetted Materials	CS, Leather
Air Inlet Port Size	1/2 in npt(f)
Material Inlet	Slotted
Material Outlet	3/8 in npt(f)
Line Length‡	Up to 500 ft (152.5 m)
Dispense Points	4 or more
Annual Usage	20,000 lb or more (9,072 kg)

Ordering Information

Fire-Ball 425 75:1 Pumps	
239729	120 lb (55 kg) Grease Pump - 75:1
239730	400 lb (180 kg) Grease Pump - 75:1
239731	35/70 lb (16/32 kg) Grease Pump - 75:1

‡ Consult your local authorized Graco representative for line or pipe sizing

Fire-Ball® Grease Pump Packages

Air-Powered Grease Pumps and Packages

246915
Portable Dispense Package with Caster Base

246910
35 lb. Portable Dispense Package with Dispense Kit

246911
35 lb. Stationary Supply Package with Dispense Kit

246914
120 lb. Stationary Supply Package

246917
400 lb. Stationary Supply Package

220171
400 lb. Stationary Supply Package with Dispense Kit

Mini Fire-Ball® 225, 50:1 Grease Pumps and Packages

	Portable Pail Dispenser	Stationary Pail Dispenser	Cart-Mounted Pail Dispenser	Stationary Supply Package	Portable Package w/Caster Base	Portable Package w/2-Wheel Cart	Stationary Supply Package
Container Size	35 lb (16 kg) pail	35 lb (16 kg) pail or 70 lb (32 kg) bulk	35 lb (16 kg) pail or 70 lb (32 kg) bulk	120 lb (55 kg)	120 lb (55 kg)	120 lb (55 kg)	400 lb (180 kg)
Package No.	**246910***	**246911***	**246913***	**246914***	**246915***	**246916***	**246917***
Pump	246909	246909	246909	246780	246780	246780	246781
Container	—	204134	204134	—	—	—	—
Follower Plate	24F901	**	**	24F902	24F902	24F902	24F903
Dispense Kit	236058***	236058***	236058***	—	236058***	236058***	—
Hose and Fitting Kit	—	—	—	222072†	—	—	222072†
Cover	222059	24R350	24R350	24R350	24R350	24R350	200326
Cart	—	—	203650	—	203622	203650	—
Manual	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.*
****Kit 236058 includes: 12 ft (3.6 m) fluid hose (109151), air coupler (208536), air nipple (169971), grease dispense valve (242056), and z-swivel (202577).*
†Kit 222072 includes: 6 ft (1.8 m) air hose (203320) with swivel elbow (155494) and 6 ft (1.8 m) fluid hose (109150) with swivel elbow (155541).

Fire-Ball® 300, 15:1 Grease Pumps and Packages

	Stationary Pail Dispenser	Stationary Drum Dispenser	Cover-Mounted Drum Dispenser
Container Size	35 lb (16 kg)	120 lb (55 kg)	400 lb (180 kg)
Package No.	**222078**	**220170**	**220171**
Pump	206405	206699	206700
Dispense Kit	222080‡	222081§	222081§
Cover	222058	204574	200326
Manual	307882		

‡Kit 222080 includes: 15 ft (4.6 m) fluid hose (109165), grease dispense valve (242056), z-swivel (202577), closed nipple (156849), quick-disconnect nipple (169971), quick-disconnect air coupler (110198), and air regulator (110234).
§Kit 222081 includes: 25 ft (7.6 m) fluid hose (109167), grease dispense valve (242056), z-swivel (202577), closed nipple (156849), quick-disconnect nipple (169971), quick-disconnect air coupler (110198), and air regulator (110234).

Fire-Ball® Grease Pump Packages

Air-Powered Grease Pumps and Packages

Fire-Ball® 300, 50:1 35-70 lb (16-32 kg) Grease Pumps and Packages

	Portable Pail Dispenser	Stationary Pail Dispenser	Cart-Mounted Pail Dispenser	Cart-Mounted Pail Topper
Container Size	35 lb (16 kg)	35 lb or 70 lb (16 kg or 32 kg)	35 lb or 70 lb (16 kg or 32 kg)	35 lb (16 kg)
Package No.	222069*	225827*	225773*	226012*
Metered Package**	245694	—	245695	—
Pump No.	239877			
Dispense Kit	222070			
Fluid Hose	12 ft x 1/4 in (3.7 m x 6.4 mm)			
Follower Plate	24F901	†	†	—
Cover	222059	24R350		—
Holster	—	203976		
Container	—	204134	204134	—
Cart	—	—	203650	
Elevator	—	—	—	203664
Inductor Plate	—	—	—	204351
Instruction Manual	307878			

**Use 3/8 in (9.5 mm) air regulator 109075; must be ordered separately **Metered grease package includes 233807 Accu-Shot instead of 242056 Pro-Shot. †Order follower plate 220653 for 35 lb (16 kg) containers, and follower plate 220654 for 70 lb (32 kg) containers; must be ordered separately*

225006
Portable Dispense Package with Caster Base

225026
Portable Dispense Package with Two-Wheel Cart

222245
Portable Dispense Package with Heavy-Duty Cart

225014
Stationary Supply

222073
Stationary Supply Topper-Inductor

Fire-Ball® 300, 50:1 Packages For 120 lb (55 kg) Containers

	Portable with Caster Base	Portable with Two-Wheel Cart	Portable with Heavy-Duty Cart	Stationary Supply	Stationary Supply Topper-Inductor
Container Size lb (kg)	120 (55)	120 (55)	120 (55)	120 (55)	120 (55)
Package Number	**225006 ***	**225026 ***	**222245 ***	**225014 ***	**222073 ***
Metered Package	—	245696 **	—	—	—
Pump Only	239887	239887	239887	239887	239887
Dispense Kits	222070	222070	222383	222072	-
Fluid Hose	12 ft x 1/4 in (3.7 m x 6.4 mm)		25 ft x 1/4 in (7.6 m x 6.4 mm)	6 ft x 1/4 in (1.8 m x 6.4 mm)	6 ft x 1/4 in (1.8 m x 6.4 mm)
Air Hose	—	—	—	6 ft x 3/8 in (1.8 m x 9.5 mm)	6 ft x 3/8 in (1.8 m x 9.5 mm)
Follower Plate	24F902	24F902	24F902	24F902	—
Cover	24R350	24R350	222060	24R350	—
Holster	203976	203976	—	—	—
Caster Base	203622	—	—	—	—
Cart	—	203650	222243	—	—
Elevator	—	—	—	—	204121
Pump Support	—	—	—	—	222074†
Hold Down Kit	—	—	222061	—	—
Instruction Manual	307878	307878	307878	307880	306523

** Use 3/8 in (9.5 mm) air regulator 109075; must be ordered separately ** Metered grease package includes 233807 Accu-Shot instead of 242056 Pro-Shot*
† Pump support assembly includes dust cover, base, inductor plate and 6 ft (1.8 m) fluid and air hose

Fire-Ball® Grease Pump Packages

Air-Powered Grease Pumps and Packages

Fire-Ball® 300, 50:1 Packages for 400 lb (180 kg) Containers

	Stationary	Topper-Inductor
Container Size lb (kg)	400 (180)	400 (180)
Package Number	**225016***	**226013***
Pump Only	239888	239888
Hose and Fitting Kit	222072	204467
Fluid Hose	6 ft (1.8 m) x 1/4 in (6.4 mm)	6 ft (1.8 m) x 1/4 in (6.4 mm)
Air Hose	6 ft (1.8 m) x 3/8 in (9.5 mm)	6 ft (1.8 m) x 3/8 in (9.5 mm)
Follower Plate	24F903	—
Cover	200326	—
Carriage	—	204461
Elevator	—	204385
Inductor Plate	—	204353
Base	—	205339
Instruction Manual	307880	306556

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

225016

400 lb. Stationary Supply Package

226013

400 lb. Stationary Supply with Topper-Inductor

Fire-Ball® 425, 10:1 Packages

10:1 Pump for Closed Head Drum for 400 lb (180 kg)	
965129	Fire-Ball 425, 10:1 pump complete with bung adapter. For open head drum, remove bung adapter and mount to 200326, 400 lb (180 kg) drum cover. Ideal for transferring grease from 400 lb (180 kg) drum or side pocket of tote tank. Can be modified for stubby horizontal mount on tote tanks. For more information contact Lubrication Equipment Technical Assistance
Fire-Ball 425, 10:1 Pump Only	
965124	Fire-Ball 425, 10:1 pump only, Stubby Universal Mount

223108

Stationary Supply Package

226018

400 lb. Stationary Supply with Topper-Inductor

Fire-Ball® 425, 50:1; Bulldog® 3:1 Packages for 120-400 lb (56-180 kg) Containers

Description	Stationary Supply	Stationary Supply	Stationary Supply Topper-Inductor	Ram	Bulldog 3:1 (Sinker)
Container Size lb (kg)	120 (55)	400 (180)	400 (180)	400 (180)	400 (180)
Package Number	**223108***	**225781***	**226018***	**244905**	**244848**
Pump Only	205394	205395	205395	205395	205148
Air Hose Kit	222076	222076	205102	222076	208610
Fluid Hose	6 ft x 3/8 in (1.8 m x 9.5 mm)				
Air Hose	6 ft x 1/2 in (1.8 m x 12.7 mm)				
Cover	204574	200326	—	—	—
Follower Plate	223344	223846	—	—	—
Carriage	—	—	204461	—	—
Elevator	—	—	204385	—	—
Inductor Plate	—	—	205699	—	222404
Base	—	—	205339	—	—
Ram	—	—	—	257435	—
Air Regulator	—	—	—	**	207651
Adapter Plate	—	—	—	162225	—
Adapter Kit	—	—	—	224266	—
Manual	307880	307880	306556	309345	309345

** Use 1/2 in (12.7 mm) air regulator 104266 and gauge 100960; must be ordered separately For Fire-Ball 425, 50:1 Lube Truck Packages, see the Specialty Pump Section. **Regulator included in Ram air control for 244905.*

Fire-Ball® Grease Pump Packages

Air-Powered Grease Pumps and Packages

Fire-Ball® 425, 75:1 Packages for 35-400 lb (16-180 kg) Containers

Description	Cover-Mount	Cover-Mount	Inductor	Ram	Pail Length	Bung or Cover
Container Size lb (kg)	120 (55)	400 (180)	400 (180)	400 (180)	35/70 lb (16/32 kg)	400 (180)
Package Number	**244635***	**244636***	**244637***	**244906**	**—**	**—**
Pump Only	239729	239730	239730	239730	239731	239730
Hose and Fitting Kit	222076	222076	205102	222076		—
Drum Cover	204574	200326	—	—	204574	—
Follower Plate	223344	223846	—	—	**	—
Carriage	—	—	204461	—	—	—
Elevator	—	—	204385	—	—	—
Base	—	—	205339	—	—	—
Inductor	—	—	205699	—	—	—
Ram	—	—	—	—	—	—
Air Regulator	—	—	—	244844	—	—
Adapter Plate	—	—	—	162225	—	—
Adapter Kit	—	—	—	224266	—	—
Manual	307880	307880	306556	309345	—	—

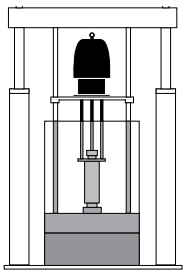
** Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately ** 35 lb: 220653/ 70 lb: 223344 • For Lube Truck Packages, see the Specialty Pumps and Packages Solution Section*

RAM Assemblies

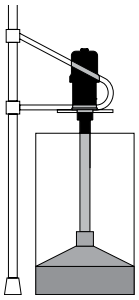
Description	Fire-Ball 300, 50:1	Fire-Ball 425, 75:1	Fire-Ball 425, 50:1	Fire-Ball 425, 10:1	Bull Dog, 3:1†
System Package	*	**244906**	**244905**	*	**244641**
Bare Pump	239888	239730	205395	965129	205148
Ram	257435	—	257435	—	—
Pump Mount Kit	247336	247337	247337	247337	—
Adapter Kit	224267	224266	224266	not needed	—
Air Regulator and Gauge	203716	244844	**	207468	207651
Ram Plate Seal Kit	247335	247335	247335	247335	224829
Air Hose 3/4 in x 6 ft	—	—	—	—	208610

**Order individual components. **Regulator included in Ram air control for 244905. †Drum clamp when required 206537.*

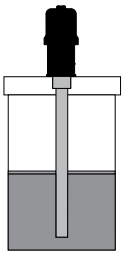
Drum Systems



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



Inductor-Mount
- Reduce waste
- Clean and convenient method of drum change



Cover-Mount with Follower Plate
- Economical

Fire-Ball® Grease Pump Accessories

Air-Powered Grease Pumps and Packages

Dispense, Hose and Fitting Kits		
Rated to 4,000-5,000 psi (345 bar) for Portable Fire-Ball 300, 50:1 or Mini Fire-Ball 225, 50:1 Pumps		
222080		For Fire-Ball 300, 15:1. Includes: 15 ft (4.6 m) of 4,000 psi, 3/8 in (9.5 mm) fluid hose (109165), grease dispense valve (242056), z-swivel (202577), 3/8 in (9.5 mm) closed nipple (156849), quick-disconnect nipple (169971), quick-disconnect air coupler (110198) and 3/8 in (9.5 mm) air regulator (110234)
222081		For Fire-Ball 300, 15:1. Includes: 25 ft (7.6 m) of 4,000 psi, 3/8 in (9.5 mm) fluid hose (109167), grease dispense valve (242056), z-swivel (202577), 3/8 in (9.5 mm) closed nipple (156849), quick-disconnect nipple (169971), quick-disconnect air coupler (110198) and 3/8 in (9.5 mm) air regulator (110234)
236058		For Mini Fire-Ball 225, 50:1. Includes: 12 ft (3.6 m) fluid hose (109151), air coupler (208536), air nipple (169971), grease dispense valve (242056) and z-swivel (202577)
222070		For Fire-Ball 300, 50:1. Includes: 12 ft (3.6 m) fluid hose (109151), air coupler (208536), air nipple (169971), grease dispense valve (242056) and z-swivel (202577). Instruction manual 307878
222383		For Portable Units Powered by the Mini Fire-Ball 225, 50:1 or Fire-Ball 300, 50:1 pumps. Includes dispense kit: grease dispense valve (242056), 25 ft (7.6 m) fluid hose (109154), air coupler (208536), air nipple (169971) and z-swivel (202577). Instruction manual 307878
Hose and Fitting Kits		
Rated to 5000 psi (345 bar) for Stationary Drum-Mounted Fire-Ball 300, 50:1 Pumps		
222072		Hose and Fittings Kit. Includes 6 ft (1.8 m) air hose (203320) with swivel elbow (155494) and 6 ft (1.8 m) fluid hose (109150) with swivel elbow (155541). Instruction manual 307880
Rated to 4000 psi (276 bar) for Stationary Drum-Mounted Fire-Ball 425, 50:1 Pumps		
222076		Hose and Fittings Kit. Includes 6 ft (1.8 m) air hose (205418) with swivel elbow (155470) and 6 ft (1.8 m) fluid hose (109163) with swivel elbow (155494). Instruction manual 307880
Bung Adapters		
239965		For Fire-Ball 425, 50:1 and 75:1 Pumps, 1.65 in ID
239966		For Fire-Ball 300, 15:1 and 50:1 Pumps
Lincoln-to-Graco Adapter Kit		
241246		For Fire-Ball 300, 50:1 when replacing a Series 20 Lincoln
Flange Mounting Accessories for Fire-Ball Pumps		
948393		Flange adapter (male) Fire-Ball 300
948392		Flange adapter (male) Fire-Ball 425
512874		Coupler (female)
Follower Plates		
24F901	LD	For 35 lb (16 kg) pails with LD 50:1; Mini Fire-Ball 225, 50:1; Fire-Ball 300, 15:1 and 50:1 pumps
24F902	LD	For 70 and 120 lb (32/55 kg) drum with LD 50:1; Mini Fire-Ball 225, 50:1; Fire-Ball 300, 15:1 and 50:1 pumps
24F903	LD	For 400 lb (180 kg) drum with LD 50:1; Mini Fire-Ball 225, 50:1; Fire-Ball 300, 15:1 and 50:1 pumps, 1.19 in ID
220653	SD	For 35 lb (16 kg) pails with Mini Fire-Ball 225, 50:1; Fire-Ball 300, 15:1 and 50:1 pumps
220654	SD	For 70 and 120 lb (32/55 kg) drum, Mini Fire-Ball 225, 50:1; Fire-Ball 300, 15:1 and 50:1 pumps
223845	SD	For 400 lb (180 kg) drum, Mini Fire-Ball 225, 50:1; Fire-Ball 300, 15:1 and 50:1 pumps, 1.19 in ID
204130	SD	Follower plate same as 223845, but without flexible wiper
223344	XD	For 120 lb (55 kg) drums with Fire-Ball 425, 50:1 and 75:1 pumps
223700	XD	For 120 lb (55 kg) drums with Dyna-Star 5:1 pumps
223701	XD	For 400 lb (180 kg) drums with Dyna-Star 5:1 and Fire-Ball 425, 10:1 pumps, 2.1 in ID
223846	XD	For 400 lb (180 kg) drums with Fire-Ball 425, 50:1 and 75:1 pumps, 1-13/32 in ID
205337	XD	Follower plate same as 223846, but without flexible wiper
Drum Covers		
200326		Cover for open-head 400 lb (180 kg) drums. Use with any Mini Fire-Ball 225, 50:1; Fire-Ball 300, 15:1 and 50:1; Fire-Ball 425, 10:1; or Dyna-Star 5:1 pump. Use adapter 160754 for bung mounted pumps
204574		SD Cover for open-head 120 lb (55 kg) or 70 lb (32 kg) drums. Mounts Mini Fire-Ball 225, Fire-Ball grease pumps or Dyna-Star 5:1 pump. Use adapter 160754 for bung mounted pumps
24R350		LD Cover for open-head 120 lb (55 kg) or 70 lb (32 kg) drums. Mounts Mini Fire-Ball 225, Fire-Ball grease pumps or Dyna-Star 5:1 pump. Use adapter 160754 for bung mounted pumps
222059		Cover for 35 lb (16 kg) pails. Mounts Mini Fire-Ball 225, 50:1 and Fire-Ball 300, 50:1 pumps using friction-style clutch lock. Allows use of 70 lb (32 kg) length pump with 35 lb (16 kg) pail
160754		Bung-adapter plate. Mounts to standard 400 lb (180 kg) or 120 lb (55 kg) drum cover and converts mounting to standard 2 npt bung opening. Allows use of bung-mounted pumps with drum covers

24F901

204574

200326

222059

160754

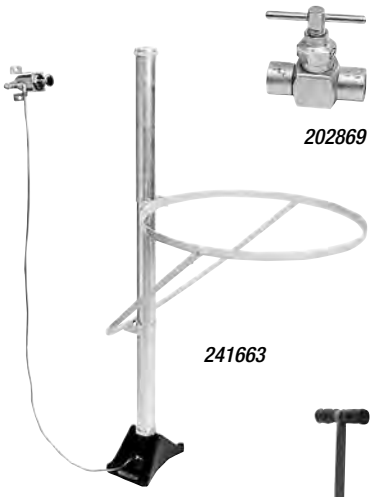
Fire-Ball® Grease Pump Accessories

Air-Powered Grease Pumps and Packages

Portable Bases	
205054	Band Dolly for 35 lb (16 kg) pails
204144	Band Dolly Base for 70 lb (32 kg) or 120 lb (55 kg) drums
203622	Caster Base for 35 lb (16 kg), 70 lb (32 kg) or 120 lb (55 kg) drums
Carts	
203650	For 35 lb (16 kg), 70 lb (32 kg) and 120 lb (55 kg) drums. Drums fit onto recess on formed base. Rim clamps secure drum onto cart. Use with pail clamp 159952 when using cart with 35 lb (16 kg) pails
222243	For 120 lb (55 kg) drums with pneumatic wheels for rough terrain
111470	Heavy-duty drum truck for 400 lb (180 kg) drums secures drum onto roll-around base
Drum Elevators	
241663	Air-Powered Elevator to speed drum changes. Maximum raised height: 39.5 in (100.33 cm). Includes: Cover Support (207562), Drum Elevator, (204385), Air Control Kit (207561)
Air Shut-Off Valves, Bleed-type, rated to 250 psi (17.4 bar)	
110223	1/4 in (6.4 mm)
110224	3/8 in (9.5 mm)
110225	1/2 in (12.7 mm)
110226	3/4 in (19.1 mm)
High-Pressure Grease Shut-Off Valves	
202869	5000 psi (345 bar) high-pressure needle valve, 1/2 npt(f) ported valve for drop-line isolation

204144

203622



202869

241663

111470

203650

NXT™ Check-Mate® Packages

Air-Powered Grease Pumps and Packages

Ordering Information

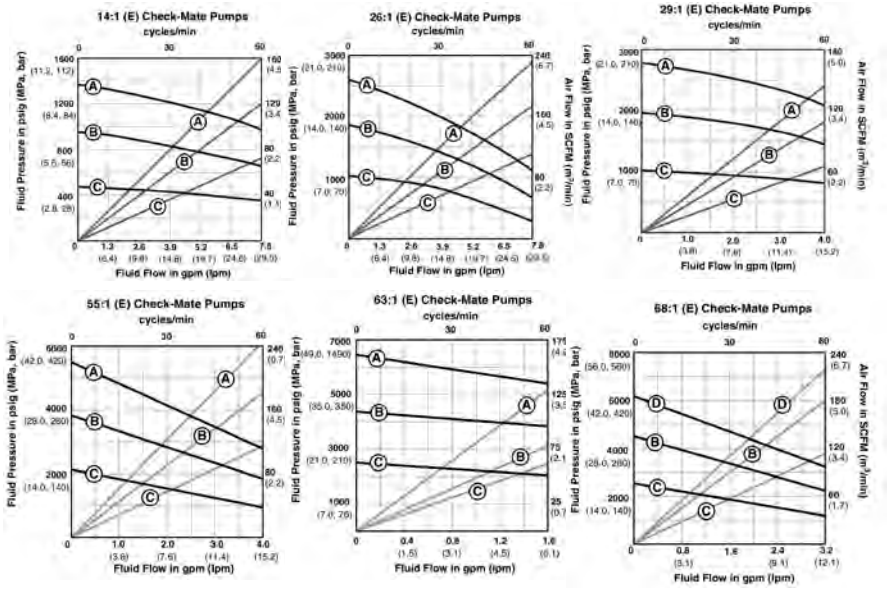
Package Number with DataTrak	247973	247976	247974	247977	247975	247978
Package Number without DataTrak	24E006	24E007	24E008	24E009	24E010	24E011
Ratio	14:1	26:1	29:1	55:1	63:1	68:1
Pump with DataTrak	P14MCS	P26MCS	P29MCS	P55MCS	P63MCS	P68MCS
Pump w/o DataTrak	P14DCS	P26DCS	P29DCS	P55DCS	P63DCS	P68DCS
Mounting	Floor Stand (223952)					
3/4 in x 6 ft Air Hose	208610					
1 in x 6 ft Fluid Hose	115042	244657				
System Manual	312863					
Pump Manual	312376					
Pump Lower Manual	312375					
Motor Manual	311238					

Note: Graco recommends 20 cpm or less for supply applications

Performance Charts

A = 100 psi (7 bar)
B = 70 psi (5.0 bar)
C = 40 psi (2.8 bar)
D = 90 psi (6.3 bar)

Test Fluid : #10 Weight Oil for all pumps



Ordering Information

NXT Check-Mate RAM Packages			
Ratio	14:1	63:1	68:1
Package Number with DataTrak	247979	247980	247981
Package Number without DataTrak	24E780	24E781	24E782
Mounting	RAM System		
Operation Manual	312863		

Fire-Ball® Lube Truck Oil and Grease Packages

Air-Powered Specialty Pumps and Packages

Oil Package Selection and Ordering Information

	Fire-Ball 300 Cover-Mounted Package	Fire-Ball 300 Cover-Mounted Package	Fire-Ball 300 Bung-Mounted Package	Fire-Ball 425 Cover-Mounted Package	Fire-Ball 425 Bung-Mounted Package
Ratio	5:1			10:1	
Container Size	16 gal (60 l) Open-head	55 gal (200 l) Closed-head*		55 gal (200 l) Closed-head*	
Package Number	**222086**	**206655**	**204264**	**206656**	**222067**
Pump Only	203872	203857	204254	222065	222095
Hose/Fitting Kit	222063			222066	
Hose Length	6 ft (1.8 m)	6 ft (1.8 m)	6 ft (1.8 m)	6 ft (1.8 m)	6 ft (1.8 m)
Air Regulator	(1)	(1)	(1)	(2)	(2)
Hold-Down Kit	222061	207361			
Drum Cover	222060	207367	-	207367(3)	-
Bung Adapter	-	-	204076 (2.140 in Dia.)	-	224579 (2.159 in Dia.)
Pump Clamp	-	-	204095	-	204095
Instruction Manual	307883				

** For closed-head drums, pump mounts off-center on drum cover. Pump draws through standard 2 npt bung opening and is equipped with grommet for rain-tight seal to the drum cover.*

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

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

(3) Off set drum cover

Grease Package Selection and Ordering Information

	Fire-Ball 300 Cover-Mounted Package	Fire-Ball 300 Cover-Mounted Package	Fire-Ball 425 Cover-Mounted Package	Fire-Ball 425 Cover-Mounted Package	Fire-Ball 425 Cover-Mounted Package	Fire-Ball 425 Cover-Mounted Package
Ratio	50:1				75:1	
Container Size	120 lb (55 kg) Open-head	400 lb (180kg) Open-head	120 lb (55 kg) Open-head	400 lb (180 kg) Open-head	120 lb (55 kg) Open-head	400 lb (180 kg) Open-head
Package Number	**222085**	**222071**	**223107**	**222075**	**243817**	**243818**
Pump Only	239887	239888	205394	205395	239729	239730
Hose/Fitting Kit	222072		222076			
Hose Length	6 ft (1.8 m)					
Air Regulator	*		**			*
Hold-Down Kit	222061	207361	222061	207361	222061	207361
Drum Cover	222060	207366	222060	207366	222060	207366
Follower Plate	220654	223845	223344	223846	223344	223846
Instruction Manual	307880					

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

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

222086

206656

222067

223107

243818

Fire-Ball® 300, 15:1 Undercoating/Rust-Proofing Packages

Air-Powered Specialty Pumps and Packages

Features and Benefits

- Available in carbon steel for petroleum-based or SST for water-based materials
- Durable air motor provides trouble-free operation

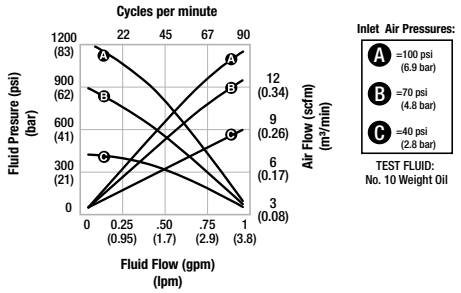
Typical Applications

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

Typical Fluids Handled

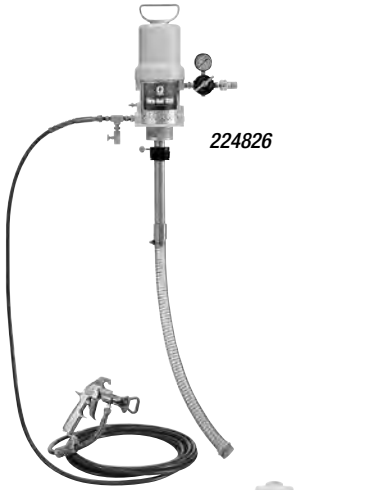
- Undercoating and rust-proofing
  (verify chemical compatibility for pump's wetted components with undercoating material supplier or contact Graco directly at 1-800-533-9655)

Pump Performance



Technical Specifications

Maximum Fluid Pressure	2700 psi (186 bar)
Effective Air Motor Diameter	3 in (76.2 mm)
Operating Range	40-180 psi (2.8-12.5 bar)
Continuous-Duty Flow Rate	0.7 gpm (2.7 lpm)
Approx. Air Consumption @ 100 psi (7 bar)	17 cfm
Air Inlet	3/8 npt(f)
Material Outlet	1/4 npt(f)
Material Inlet for Non-SST Pump	1 npt (straight inlet)
Material Inlet for 224825 (SST Pump)	1 npt (barbed inlet)
Wetted Parts for Non-SST Pump	CS, Aluminum, PTFE, Rubber
Wetted Parts for SST pump	SST, Aluminum, Leather, PTFE, Rubber
Instruction Manual for non-SST Pump	306531
Instruction Manual for SST Pump	308069



Ordering Information

	Undercoating			Spray Masking
Style	Portable	Portable Dolly-Mounted	Stationary	Bung-Mounted Stationary
Container Size	35 lb (16 kg)	120 lb (54 kg)	400 lb (180 kg)	400 lb (180 kg)
Package Number	**222077**	**226342**	**226269**	**224826***
Pump Only	206405	206699	206700	224825 (SST pump)
Dispense Kit	222079	222079	222082	224023
Tip	286517			286211 / 286621
Hose Length	15 ft (4.6 m)	15 ft (4.6 m)	25 ft (7.6 m)	25 ft (7.6 m)
Cover	222058	204574	200326	-
Caster Base	-	204144	-	-
Instruction Manual	307879/306531			308069

** Package 224826 includes flexible short tube (224022) long enough for 400 lb (180 kg) container, but can be trimmed to accommodate smaller containers.*

214570	60-mesh Aluminum filter (3/8 npt(f) inlet; 1/4 npt(f) outlet). Max. working pressure: 3000 psi (210 bar)
Replacement Screen Elements (SST) 3-pack/25-pack **224458/238436** 30-mesh | **224459/238438** 60-mesh | **224468/238440** 100-mesh	
202577	Z-Swivel allows non-binding movement for hard-to-reach spots. Order 155570 adapter separately to accommodate 234237 gun
206496	Nozzle Extension delivers 360º coating fan into blind areas. Length 30-3/4 in (99 cm) x 7/8-14(f) end. Tip 206502, size .043
234237	4 Finger Silver Gun with tip guard 243161 and tip 286517. 4,500 psi (310 bar) x 3/8 npt(f) inlet. Must order 155570 adapter and 239663 straight swivel to accommodate gun to 1/4" (mbe) hose
239966	Bung Adapter

Bulldog® 43:1 Hydraulic Supply Pump

Air-Powered Specialty Pumps and Packages

Features and Benefits

- Compact, low-profile design makes installation easier
- Corrosion resistant – lightweight aluminum construction
- Reliable – tested to 10 million cycles without failure
- Added safety – grounded lug prevents static build-up

218334

Typical Applications

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

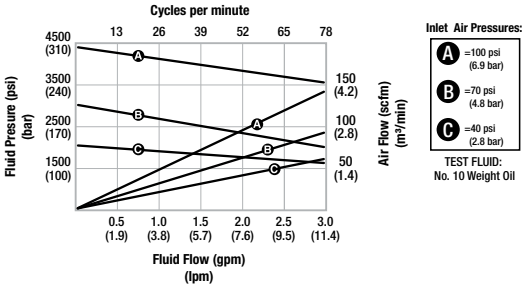
Typical Fluids Handled

- Hydraulic oil

Technical Specifications

Maximum Operating Pressure	4300 psi (301 bar)
Maximum Air Input Pressure	100 psi (7 bar)
Air Inlet	3/4 npsm(f)
Fluid Inlet	1 npt(f)
Fluid Outlet	3/4 npt(f)
Wetted Parts	CS, SST, Chrome Plating, Zinc Plating, Nickel Plating, Brass, Buna-N
Instruction Manual	307714

Pump Performance

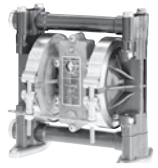


Ordering Information

218334	43:1 Bulldog Hydraulic Supply Pump
Air Pressure Regulators	
206197	1/2 inch npt inlet and outlet
207755	3/4 inch npt inlet and outlet
Air Line Filters	
106149	1/2 inch npt inlet and outlet
106150	3/4 inch npt inlet and outlet
Bleed-Type Master Air Valve	
107142	1/2 inch npt inlet and outlet
Grounding Clamp and Wire	
103538	Grounding clamp
222011	Ground wire
Air Line Lubricator	
214848	1/2 inch npt inlet and outlet
214849	3/4 inch npt inlet and outlet

Diaphragm Pumps and Accessories

Air-Operated Double Diaphragm Transfer Pumps



D31255

241906

647648

DB3525

DF3525

652002

Ordering Information and Technical Specifications

Key	OT = Oil Transfer	OE = Oil Evacuation	WA = Water, Anti-Freeze	FD = Fuel Dispense (with 50 psi relief valve)	FT = Fuel Transfer	WWS = Windshield Wash Solution

Body/Diaphragm Description	Part Number	Typical Application	Max. Air SCFM	Air Inlet NPT	Max. psi (bar)	Fluid Inlet/ Outlet	Free Flow gpm (lpm)	Air Valve Replace-ment Kit	Kits (Seats, Balls, Diaphragms)	Diaphragm Kit	Manual
307 3/8 in Diaphragm Pump Acetal/TPE	D31255	OT, WA, WWS	7[1]	1/4	100 (7.0)	3/8	7 (31.8)	239952	D03255	D03005	308553
515 1/2 in Diaphragm Pump Acetal/Buna Dual Inlet	243669	50/50 WWS, WA	28[1]	1/4	100 (7.0)	3/4 / 1/2	15 (57)	241657	D05277	D05007	309204
716 3/4 in Diaphragm Pump Aluminum/Buna N	241906	OT, OE, WA, WWS	28[1]	1/4	100 (7.0)	3/4	16 (61)	241657	D05277	D05007	308573
1 in Diaphragm Pumps 1050A Aluminum/TPE (UL)	647016	WA, FT *(leaded fuel only)*	64[1]	1/2	100 (7.0)	1	50 (189)	24B766	Seats-24B634 and Balls-24B639	24B624	313597
1050A Aluminum/TPE (UL)	647648	FD	25[4]	1/2	50 (3.4)	1	38 (144)				313597
1050A Aluminum/Buna N (UL)	647731	OT, OE, WA	64[1]	1/2	100 (7.0)	1	50 (189)		Seats-24B632 Balls-24B639		313597
1590 1-1/2 in Diaphragm Pump Aluminum/TPE	DB3525	OT, OE, WA	125[3]	1/2	120 (8.3)	1 1/2	100 (378.5)	236273	D0B525	D0B005	308441
2150 2 in Diaphragm Pump Aluminum/TPE	DF3525	OT, OE, WA	175[3]	1/2	120 (8.3)	2	150 (567)	236273	D0F525	D0F005	308368
3300 3 in Diaphragm Pump Aluminum/TPE	652002	OT, OE, WA	335[2]	3/4	125 (8.6)	3	300 (1,135)	24K855	Seats-24K932 Balls-24K937	24K901	3A0410

NOTE: All pumps are 1:1 ratio [1]*Max air use at 100 psi (7.0 bar)* [2]*Max air use at 125 psi (8.6 bar)* [3]*Max air use at 120 psi (7.0 bar)* [4]*Max air use at 50 psi (3.5 bar)*

Mounting Accessories

Pump	307	515/716	1050	1590	2150	3275
Air Line Filter	110146		106148	106149	106150	106150
Air Regulator and Gauge	110147	110147	244844	202858	206199	207651
Air Quick-Connect Coupler	208536, 1/4 npt(f)		110199, 1/2 npt(f)			N/A
Air Quick-Connect Nipple	169970, 1/4 npt(m)		110196, 1/2 npt(f)			N/A
Bleed Type Air Valve	110223		110224	110225		110226
Wall Bracket	224835		24C637	N/A	N/A	N/A
Thermal Relief Kit	238899	238428		N/A	N/A	N/A
Thermal Relief Valves 150 psi (10.3 bar)	113497 al/bn, 112119 ss/tf		113497 al/bn , 112119 ss/tf			
Grounding Wire and Clamp	222011					
Suction Hose Kit	236054			N/A	N/A	N/A
Flange Adapter Kit	N/A	N/A	N/A	N/A	N/A	N/A
Dual Inlet Manifold	N/A	243669*	24D205	N/A	N/A	N/A
Instruction Manual	308553	308573 and 308981	308326 and 308479	308441	308368	308639

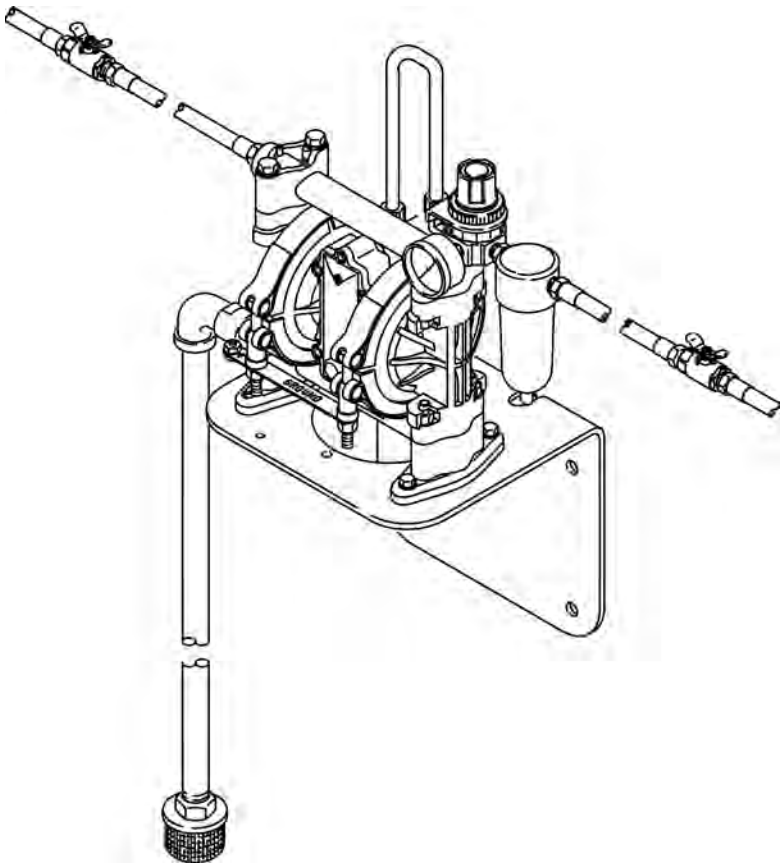
**Includes the dual inlet manifold.*

Windshield Wash and Coolant Dispense

Diaphragm Pump Specialty Packages

Packages for Pre-Mixed Windshield Wash Solvent and Coolant Dispense

307 Air-Operated Double-Diaphragm Pump	
237161	Complete package includes the following: 307 Diaphragm Pump (D31255), 6 ft (1.8 m) air hose (109125), 4 ft (1.2 m) coupled nitrile fluid hose (220596), air filter (110146), air gauge (108190), air line fitting (111511), 1/4 npt air regulator (110318), elbow (100611), 15 in (381 mm) 3/8 in ID tube, (187479), mounting bracket (190125), adapter (156022), 1/4-18 npt nipple (156971), suction hose kit (223888), 6 ft (1.8 m) coupled PVC hose and 304 SST 16 mesh strainer, wall bracket (224835)
237160	Includes all items listed above except diaphragm pump and wall bracket



Bulk Anti-Freeze and Windshield Solvent Transfer Packages

Description	1050 AODD	1050 AODD	515 AODD	716 AODD
	Dual Inlet	Single Inlet	Dual Inlet	Single Inlet
Package Number	**244679**	**244680**	**244681**	**244682**
Pump	647731	647731	243669	241906
Air Regulator	109075	109075	110147	110147
Fluid Connect Hose	115042	115042	109105	109105
Air Connect Hose	205418	205418	109125	109125
Air Shut-off Valve	110224	110224	110223	110223
Wall Mount Bracket	24C637	24C637	224835	224835
Dual Inlet Manifold	24D147	–	–	–
Suction Kit	2-236054	236054	2-236054	236054
Thermal Relief Kit	238428	238428	113497	113497
Instruction Manual	309353	309353	309353	309353

Fast-Flo® 1:1
Transfer Pumps and Accessories

Features and Benefits

- Differential air motor for smooth operation and reliability
- Stainless steel models available for corrosion resistance

Typical Applications

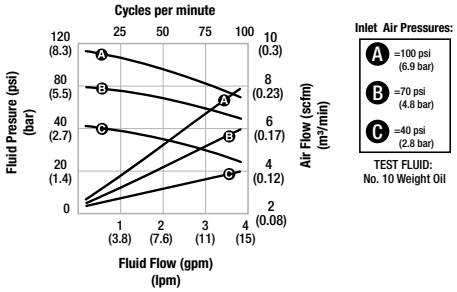
- Low pressure, high volume transfer of low viscosity fluids
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube centers
- Fleet service facilities
- Service shops
- In-plant
- Lube trucks
- Mining

Typical Fluids Handled

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

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

Pump Performance



226948

226947

Technical Specifications

Flow Rate gpm (lpm)	5 (19)
Maximum Fluid Pressure psi (bar)	180 (12.4)
Operating Range [1] psi (bar)	40-180 (2.8-12)
Wetted Materials	See Ordering Info
Air Inlet Size	1/4 npt(f)
Material Inlet[2]	1-1/2 npt(f)
Material Outlet	3/4 npt(f)
Line Length‡	Up to 100 ft (30 m)
Dispense Points	1
Annual Usage	Up to 5000 gal (18921 l)

(1) Max Operating Air Pressure for 226951 is 60 psi (4.2 bar)
(2) For universal pumps
‡ Consult your local authorized Graco representative for line or pipe sizing

Fast-Flo® 1:1
Transfer Pumps and Accessories

Ordering Information

Universal-Length Pumps (includes motor and pump-lower assembly)									
Part Number	226948	226952	237130	237131	237132	226943 *	226944 **	226945 **	
Material	CS	SST	CS	CS	SST	CS	CS	SST	
Std. Seal Repair Kits	218112	218112	213012	213013	213013	213012	215964	215964	
Material	Rubber	Rubber	Leather	PTFE	PTFE	Leather	Polyethylene	Polyethylene	
Typical Fluids	Motor Oil							Anti-Freeze, Windshield Wash	

Note: All seal repair kits are interchangeable with other Fast-Flo pumps.

Drum-Length Pumps (includes motor and pump-lower assembly)									
Part Number	226947	226951 †	226953	237133	237134	237129	226940	226941	226942
Wetted Parts	CS	CS	SST	CS	CS	SST	CS	CS	SST
Std. Seal Repair Kits	218112			213012	213013		213012	215964	
Material	Rubber			Leather	PTFE		Leather, PTFE, Leather	Polyethylene, UHMWPE	
Typical Fluids	Motor Oil								A/W

Note: All seal repair kits are interchangeable with other Fast-Flo pumps.
** UL-listed*
*** UL-listed and CE-marked*
† Adjustable down tube length between 18 in (457 mm) to 46.4 in (1180 mm)

Accessories

Motor Service Kits for all Fast-Flo 1:1 Pumps	
220168	Motor Service Kits for all Fast-Flo 1:1 Air Valve Piston Assembly (used with repair kit 214584, which must be ordered separately)
Hose and Fittings Kits	
222118	18 in (0.5 m) for connecting wall-mounted Fast-Flo 1:1 pumps to piping. Includes: air hose (109123) with swivel elbow (155541), fluid hose (109108) with swivel elbow (160327)
222119	6 ft (1.8 m) for use with drum-mounted Fast-Flo 1:1 pumps. Includes: air hose (109125) with swivel elbow (155541), fluid hose (109105) with swivel elbow (160327)
Bung Adapters	
214583	Allows direct mounting of full-length Fast-Flo 1:1 pumps into standard 2 npt drum bung
217359	Sealed bung adapter for Fast-Flo pumps; can be used with suction kit 236054
Installation Kits	
218316	Includes shut-off valve, regulators, gauges and fittings as necessary for normal installation

APEX™ and APEX On-Demand
Transfer Pumps and Accessories

APEX Transfer Pumps

- Available with 12 VDC, 115 VAC and 230 VAC electric motors
- Self-priming, positive displacement design
- Pumps petroleum- and synthetic-based lubricants up to 8 gpm (30 lpm)
- Built-in bypass valve
- Transfer used oil with inlet suction screen (260306)
- TENV electric motor for demanding environments, models 260105, 260106, 260108 and 260109
- System includes suction tube, fluid hose, dispense valve and bung adapter for models 260100, 260101, 260102 and 260104

APEX 115 VAC oil transfer system

APEX On-Demand Dispensing Pumps

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

APEX On-Demand
12 volt DC dispensing pump

Typical Applications

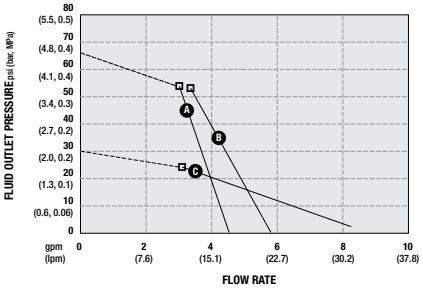
- Filling bulk tanks from drums
- Agricultural equipment
- Lubricant transfer from remote locations
- Filling in-plant machinery
- Construction equipment
- Evacuating used oil receivers
- Automotive and truck service garages
- Fleet marine and personal boat service

Typical Fluids Handled

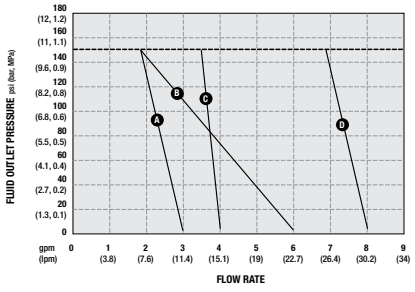
- Synthetic oil
- Petroleum oil*
- Used oil*
- Anti-freeze
- Hydraulic fluids
- Cutting oils
- Liquid soap
- Non-flammable oil based solvents
- Oil-based herbicide carriers

**Not for food grade use*

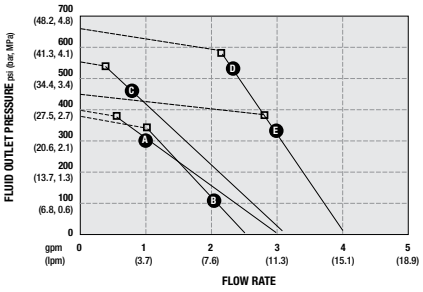
Pump Performance



PART NUMBERS	LEGEND
(A) = 260101, 260104	Relief valve opens □
(B) = 260100	
(C) = 260102	



PART NUMBERS	LEGEND
(A) = 260105, 260106	Relief valve setting at 150 psi (10.3 bar, 1.0 MPa)
(B) = 260108	
(C) = 260240	
(D) = 260109	



PART NUMBERS		
(A) = 260112	(D) = 260114	
(B) = 260110	(E) = 260113	
(C) = 260111	LEGEND: Pressure switch opens □	

APEX™ and APEX On-Demand
Transfer Pumps and Accessories

APEX Transfer System

Part Number	260100	260101	260102*	260104
Motor	12 VDC	115 VAC	115 VAC	230 VAC
Hertz	NA	60 Hz		50/60 Hz
Horsepower	0.75	0.50	0.75	0.50
Maximum Current	35 amps	9.2 amps	9.0 amps	3.9 amps
Maximum Flow Rate	5.8 gpm (22 lpm)	4.25 gpm (16 lpm)	8.0 gpm (30 lpm)	4.25 gpm (16 lpm)
Maximum Pressure	65 psi (4.5 bar)		30 psi (2.1 bar)	65 psi (4.5 bar)
Inlet Port	1 npt(f)			
Outlet Port	3/4 npt(f)			
Weight	34 lbs (15 kg)	25 lbs (11 kg)		
Instruction manual	311305			

Note: All oil transfer systems come with 3/4 in x 8 ft hose, 1 in x 34 in suction tube and 3/4 in outlet dispense valve
**Designed for fluid viscosities of 1000 centistokes or less. If fluid viscosity is greater than 1000 centistokes use part 260101.*

APEX 115 VAC oil transfer system

APEX Transfer Pumps

Part Number	260105*	260106	260108	260109
Motor	115 VAC			
Hertz	60 Hz			
Horsepower	1.00			
Maximum Current	7.5 amps		9.0 amps	11.0 amps
Maximum Flow Rate	3.0 gpm (11 lpm)		4.0 gpm (15 lpm)	8.0 gpm (30 lpm)
Maximum Pressure	150 psi (10 bar)			
Inlet Port	1 npt			
Outlet Port	3/4 npt			
Weight	25 lb (11 kg)			30 lb (14 kg)
Instruction Manual	311306			

Note: All oil transfer pumps come with bung adapter.
**Part no. 260105 is a wall mount unit*

APEX On-Demand Pumps

Part Number	260110	260111	260113	260114	260112
Voltage	115 VAC				12 VDC
Hertz	60 Hz				N/A
Horsepower	0.75	1.00	1.50	2.00	0.75
Maximum Current	10 amps	13 amps	18 amps	21 amps	75 amps
Maximum Flow Rate	2.3 gpm (9 lpm)	3 gpm (11 lpm)	4.0 gpm (15 lpm)		3 gpm (11 lpm)
Maximum Pressure	370 psi (25 bar)	550 psi (38 bar)	470 psi (32 bar)	650 psi (45 bar)	400 psi (28 bar)
Inlet Port	3/4 npt				
Outlet Port	1/2 in NPT				
Weight	27 lb (12 kg)	32 lb (15 kg)	41 lb (19 kg)	52 lb (24 kg)	27 lb (12 kg)
Instruction Manual	311307				

Note: All on-demand pumps come with bung adapter

APEX On-Demand
12 volt DC dispensing pump

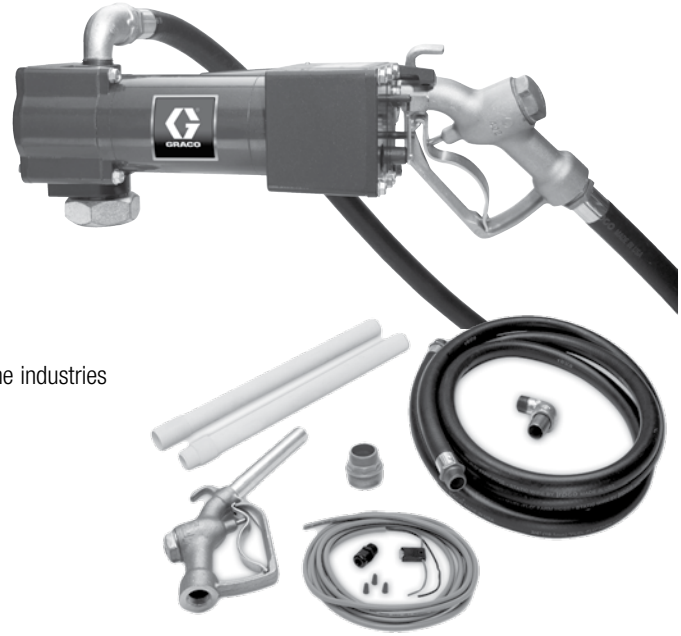
Accessories

260145	Wall Mounting Bracket, fits all models
260238	"Y" Strainer with 3/4" npt female in-line strainer for used oil transfer
260306	Inlet Suction Screen Assembly, required for used oil applications, 20 mesh screen
260124	55 in (1.3 m) PVC Suction Tube With inlet check valve

GTP10 and GTP12
Transfer Pumps and Accessories

Features and Benefits

- Heavy-duty, die-cast aluminum
- CSA listed motor
- Built-in relief valve and filter strainer
- Easy-to-lock security
- High quality, UV resistant automotive finish
- Rain proof for extreme weather conditions
- Two year warranty



Typical Applications

- Fuel transfer for the construction, agriculture, manufacturing and marine industries

Typical Fluids Handled

- Gasoline
- Diesel fuel
- Kerosene
- Bio-fuels

Ordering Information

Kit Number	260000	260020	260025
Voltage	12 VDC	24 VDC	115 VAC
Inlet Port	1 npt		
Outlet Port	3/4 npt		
Current	12 amps	6 amps	1.7 amps
Power Cord	18 ft (5.5 m)		N/A
Hose	3/4 in x 12 ft (19 mm x 3.7 m)		
Suction Tube	1 in x 34 in (25 mm x 0.9 m)		
Weight	20 lbs (9 kg)		
Max Fluid Flow	10 gpm (38 lpm)		12 gpm (45 lpm)
Instruction Manual	311304		

Fuel Transfer Kit: Includes pump, fuel nozzle, bung adapter, 34 in (0.9 m) suction tube, 12 ft (3.7 m) grounded hose, elbow fitting, 18 ft (5.5 m) power cable, wire nuts and strain relief

NOTE: AC units do not include power cable, wire nuts or strain relief

Accessories

260078	Unleaded nozzle
260083	Unleaded nozzle with auto shut-off
260082	Regular/diesel nozzle with auto shut-off
260079	Regular/diesel nozzle
260523	8 ft x 34 in (2.4 m) npt UL Listed hose
260521	12 ft x 3/4 in (3.7 m) npt UL Listed hose

260083

Diesel Exhaust Fluid (DEF) Dispense Systems

Pumps and Packages

Features and Benefits

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.

Choose from configured packages or build a custom DEF system specific for your application with individual pumps and components – from the economical Graco LD Blue hand pump to the high-performance Graco LD Blue electric or Graco SD Blue Air-Operated Double Diaphragm (AODD) packages.

127642

Typical Applications

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

24G745

Typical Fluids Handled

- Diesel exhaust fluid

24G636

Graco LD Blue Electric Pump Technical Specifications	120V c UL us *Approved*	12V
Maximum Flow Rate	9 gpm	9.5 gpm
Maximum Fluid Pressure	50 psi	50 psi
RPM	1750	2600
Watts	500	260
Voltage	120V / 60hz	12V
Maximum Amperage	4.5A	22A
Duty Cycle	20 min ON/OFF	20 min ON/OFF

24V686

Graco SD Blue Pneumatic Pump Technical Specifications	Husky 515 AODD
Maximum Flow Rate	15 gpm
Maximum Fluid Pressure	50 psi
Air Operating Range	30-50 psi
Air Inlet	1/4" NPT(f)
Pump Inlet	½" BSPP(f) and ¾" BSPP(f)
Hose Inlet	3/4" BSPP(f)
Pump Outlet	½" BSPP(f) and ¾" BSPP(f)
Maximum Air Consumption	28 scfm

24V641

Diesel Exhaust Fluid (DEF) Dispense Systems

Pumps and Packages

LD Blue – Electric DEF Tote Packages	
24V641	120V LD Blue Tote Package, LD Auto Nozzle, LD Meter
24V644	120V LD Blue Tote Package, LD Manual Nozzle
24V645	120V LD Blue Tote Package, LD Auto Nozzle
24V646	12V LD Blue Tote Package, LD Auto Nozzle, LD Meter
LD Blue – Electric DEF Drum Packages	
24V656	120V LD Blue Drum Package, LD Auto Nozzle
LD Blue – Electric Pumps Only	
127642	120V AC Electric pump, 3/4" barbed hose tail
127643	12V DC Electric pump, 3/4" barbed hose tail
127646	Handle for 12V DC pump, Black
SD Blue – AODD DEF Tote Packages	
24V677	SD Blue Standard Tote Package, LD Auto Nozzle, LD Meter
24V678	SD Blue Standard Tote Package, LD Auto Nozzle
24F531	SD Blue Deluxe Tote Package, SD Auto Nozzle, SD Meter Kit, Coupler Kit
24F878	SD Blue Deluxe Tote Package, SD Auto Nozzle, Coupler Kit
SD Blue – AODD DEF Drum Packages	
24V679	SD Blue Standard Drum Package, LD Manual Nozzle
24V686	SD Blue Standard Drum Package, LD Auto Nozzle, LD Meter
24F947	SD Blue Deluxe Drum Package, LD Manual Nozzle, Coupler Kit
24M499	SD Blue Deluxe Drum Package, SD Auto Nozzle, SD Meter Kit, Coupler Kit
SD Blue – AODD Pumps Only	
24G745	Husky 515 Air Operated Diaphragm pump, 3/4" BSPP(f)
LD Hand Pumps	
127647	DEF hand pump, drum length down tube
24G636	DEF hand pump with 6' dispense hose, ball valve, drum length down tube
127875	DEF hand pump with 6' dispense hose, drum length down tube, manual LD nozzle (125078)
125479	Drum length adjustable down tube for hand pump
125478	6' Dispense hose for DEF hand pump
LD Blue Nozzles	
127649	LD Automatic nozzle with stainless steel breakaway tip, 3/4” hose barb
127650	LD Automatic nozzle with built-in electronic turbine meter, with stainless steel breakaway tip, 3/4” hose barb
125078	LD Manual DEF nozzle with SST tip, 3/4” hose barb
127651	Nozzle replacement kit for LD nozzles 127649 and 127650
127652	Mis-filling nozzle kit for LD Automatic nozzles
127654	Magnetic Adaptor for Mis-fill kit

24V656

24V677

127649

127650

Diesel Exhaust Fluid (DEF) Dispense Systems

Pumps and Packages

SD Blue Nozzles	
124398	SD Automatic shut off SST nozzle without swivel, 3/4" BSPP(f)
24F529	SD Automatic shut off SST nozzle with swivel, 3/4" BSPP(f)
127655	SD Automatic shut off SST nozzle, 3/4" hose barb
Meters	
127663	LD Blue digital in-line turbine meter. LCD display
24G738	SDI15 DEF meter, 1/2" BSPP(f/f), 1500psi, .01 to 14gpm
24H293	SDI15 meter kit with fittings for SST auto nozzle
XD 30 DEF Hose Reels	
HSDD5A	XD 30 DEF hose reel, 3/4" x 50', white
HSDD5B	XD 30 DEF hose reel, 3/4" x 50', blue
HSDD5F	XD 30 DEF hose reel, 3/4" x 50', yellow
HSDDDA	XD 30 DEF hose reel, bare, white
HSDDDB	XD 30 DEF hose reel, bare, blue
HSDDDF	XD 30 DEF hose reel, bare, yellow
Hose Reel Inlet Kits	
24W250	2' DEF inlet hose kit for XD 30 reels. 3/4" BSPP(f) x cut end. Includes 90 degree elbow
24W251	6' DEF inlet hose kit for XD 30 reels. 3/4" BSPP(f) x cut end. Includes 90 degree elbow
124875	2' DEF inlet hose, 3/4" BSPP(m) x cut end (inlet hose)
124581	6' DEF inlet hose, 3/4" BSPP(m) x cut end (inlet hose)
Dispense and Suction Hoses	
24W148	2' DEF suction hose kit with (2) hose clamps
24W149	5' DEF suction hose kit with (2) hose clamps
24W190	6' DEF dispense hose kit with (2) hose clamps
24W154	12' DEF dispense hose kit with (2) hose clamps
24W161	20' DEF dispense hose kit with (2) hose clamps
124875	2' DEF hose, 3/4" BSPP(m) x cut end (inlet hose)
124581	6' DEF hose, 3/4" BSPP(m) x cut end (inlet hose)
125079	12' DEF hose, 3/4" BSPP x cut end
124671	12' DEF hose, 3/4" BSPP x 3/4" BSPP
124603	20' DEF hose, 3/4" BSPP x 3/4" BSPP
125074	20' DEF hose, 3/4" BSPP x cut end
125242	50' DEF hose, 3/4" BSPP x 3/4" BSPP

24F529

127663

HSDD5B

24W149

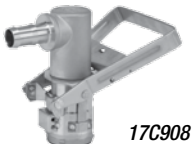
Diesel Exhaust Fluid (DEF) Dispense Systems

Pumps and Packages

Suction Line Components	
17C907	Micro Matic EPV dispense coupler, 3A orange, 3/4" barbed outlet, EPDM seals
127634	Micro Matic EPV container valve, 3A orange, 2.5" x 5 buttress, EPDM Seals
127793	Micro Matic EPV down tube for 55 gal drum
127794	Micro Matic EPV center down tube for 275 gal IBC tote
127635	Micro Matic EPV center down tube for 330 gal IBC tote
17C908	Micro Matic RSV dispense coupler, 3/4" barbed outlet, 4 pin, stainless steel
127637	Micro Matic RSV container valve, 2.5" x 5, 4 cam, stainless steel valve, EPDM seals
127795	Micro Matic RSV down tube for 55 gal drum
127796	Micro Matic RSV center down tube for 275 gal IBC tote
127639	Micro Matic RSV center down tube for 330 gal IBC tote
127640	Micro Matic RSV fill coupler, 1" NPT(m) inlet x 1/4" NPT(f) outlet, 4 pin, stainless steel
24W142	Micro Matic EPV package: coupler (17C907), container valve (127634), 55 gal down tube (127793)
24W141	Micro Matic EPV package: coupler (17C907), container valve (127634), 275 gal down tube (127794)
24W140	Micro Matic EPV package: coupler (17C907), container valve (127634), 330 gal down tube (127635)
24W145	Micro Matic RSV package: coupler (17C908), container valve (127637), 55 gal down tube (127795)
24W144	Micro Matic RSV package: coupler (17C908), container valve (127637), 275 gal down tube (127796)
24W143	Micro Matic RSV package: coupler (17C908), container valve (127637), 330 gal down tube (127639)
24F532	Colder Coupler kit: drum coupler (124548), drum insert (124549), and down tube (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" down tube
Accessories	
24F870	AODD SD tote/wall mounting bracket with nozzle holder
24F679	AODD SD drum mounting bracket with nozzle holder
124541	Nozzle bath holder for AODD brackets
110147	Air Regulator for AODD pump (24G745), 1/4" npt(fbe) with gauge
124963	50 psi air safety valve for AODD pumps
Fittings	
127656	1" BSP(f) Elbow fitting, black
127657	1" BSP(f) x 3/4" Barb hose tail, black
127720	1" BSP(f) x 1" BSP(f) Linear socket, black
127804	3/4" x 1" BSPP(f) swivel fitting with seals, black
127805	1" BSPP(f) x 1" BSPP(f) coupler
127806	1" BSPP(m/f) swivel, white
127815	3/4" BSP x 3/4" barb SST swivel hose tail
127823	1" BSP x 3/4" barb elbow, white
24F524	3/4" BSPP(m) x 3/4" BSPP(f) SST swivel
127884	Adapter for connecting the LD manual nozzle to the LD meter
127800	Adapter for connecting the SD Automatic nozzle to the LD meter

17C907

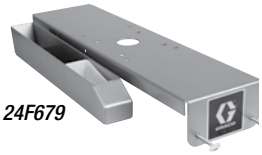
127634



17C908

127637

124548



24F679

24F870

127656

Diesel Exhaust Fluid (DEF)

Dyna-Star® and Power-Star™ Pumps

Hydraulic-Powered Pumps and Packages

Features and Benefits

- Ties into existing hydraulic systems on mobile equipment
- Operates quieter than air driven pumps and doesn't require mufflers
- Eliminates the need for air compressors
- Provides self-lubrication for long life and reliability
- Hydraulic changeover is faster with less pulsation allowing smoother output pressure, even with long plumbing runs

Typical Applications

- Low pressure, high volume oil transfer
- High pressure, high volume grease dispense
- Heavy-duty dealerships
- Fleet service facilities
- Service shops
- In-plant
- Lube trucks
- Mining

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Grease up to NLGI #2

Ordering Information for Oil Packages

Oil Applications	Power-Star, 1:1	Dyna-Star®, 1:1	Dyna-Star, 1:1	Dyna-Star, 1/4:1	Stainless Steel Dyna-Star, 1:1
Drum Size	Universal	Universal	55 gal (200 l) Bung- or Cover-Mounted	Universal	Universal
Pump Number	236754	224741	224742	236753	237653
Max. Input Pressure	1500 psi (102 bar)	1500 psi (102 bar)	1500 psi (102 bar)	1500 psi (102 bar)	1000 psi (70 bar)
Max. Fluid Input Volume	12 gpm (45.4 lpm)	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)
Max. Output Flow Rate	12 gpm (45.4 lpm)	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)	10 gpm (37.9 lpm)	3 gpm (11.4 lpm)
Maximum CPM	60	60	60	60	60
Max. Fluid Output Pressure	1500 psi (102 bar)	1500 psi (102 bar)	1500 psi (102 bar)	375 psi (25.1 bar)	1500 psi (102 bar)
Hydraulic Supply Inlet	3/4 npt	3/8 npt	3/8 npt	3/8 npt	3/8 npt(f)
Hydraulic Return Outlet	1-1/4 npt	3/4 npt	3/4 npt	3/4 npt	3/4 npt(f)
Fluid Outlet	1/2 npt	1/2 npt	1/2 npt	1/2 npt	1/2 npt(f)
Fluid Inlet	1-1/2 npt	1-1/2 npt	1-1/2 npt	1-1/2 npt	3/4 npt
Max. Incoming Fluid Temp.	130º F (54º C)	130º F (54º C)	130º F (54º C)	130º F (54º C)	130º F (54º C)
Instruction Manual	308391	308155	308155	308390	308155
Applications	Bulk oil transfer	Oil dispensing	Oil dispensing	Bulk oil transfer	Anti-freeze dispensing

Dyna-Star® and Viscount® II Pumps

Hydraulic-Powered Pumps and Packages

Ordering Information for Grease Packages

Grease Applications	Dyna-Star, 5:1	Dyna-Star, 10:1	Viscount II, 2.4:1
Part No. – Drum Size	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)	222902 – 400 lb (180 kg)
Max. Input Pressure	1500 psi (102 bar)	600 psi (41 bar)	1500 psi (102 bar)
Max. Hydraulic Fluid Input Vol.	3 gpm (11.4 lpm)	3 gpm (11.4 lpm)	12 gpm (45.4 lpm)
Max Grease Flow Output Rate	4 lb/min (1.8 kg)	1.1 lb/min (0.5 kg)	54 lb/min (20.4 kg)
Maximum CPM	60	60	60
Max. Fluid Output Pressure	7,500 psi (517 bar)	7,500 psi (517 bar)	2,300 psi (159 bar)
Hydraulic Supply Inlet	3/8 npt	3/4-16 in. JIC (37º Flare)	3/4 npt
Hydraulic Return Outlet	3/4 npt	3/4 npt	1 npt
Fluid Outlet	1/2 npt	1/2 npt	1-1/2 npt
Maximum Incoming Hydraulic Fluid Temp.	130º F (54º C)	200º F (93º C)	130º F (54º C)
Instruction Manual	308156	312350	308149

Hydraulic Fluid Controls (Required for each pump)	
236864	Dyna-Star Fluid Controls [1500 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.
236865	Power-Star and Viscount II Fluid Controls [1500 psi (102 bar); 12 gpm (45.4 lpm)]. Includes manifold with pressure-reducing valve, flow control valve, pressure gauge, shut-off ball valves and 3 ft (0.9 m) supply and return hoses. Instruction manual 308395.
237904	1:1 Dyna-Star Thermal Relief Valve, 1600 psi (110 bar)
235998	Mini Fire-Ball 225, 3:1 thermal relief valve rated to 600 psi (41 bar)

Accessories

Follower Plates	
224916	Follower plate for 35 lb (16 kg)
223700	Follower plate for 120 lb (55 kg)
223701	Follower plate for 400 lb (180 kg)
Covers	
224915	Cover for 35 lb (16 kg)
204574	Cover for 120 lb (55 kg)
200326	Cover for 400 lb (180 kg)
Tie-Down Covers	
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*

222902

236754

224741

247540

Oil and Grease Dispensing Packages

Manually-Operated Pumps

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

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

Description	Portable Metered ATF Dispenser	Portable Metered Gear Lube Dispenser	Cart-Mounted Metered Gear Lube Dispenser	Stationary Non-Metered Gear Lube Dispenser	Portable Non-Metered Gear Lube Dispenser
Package Number	**225880**	**225376**	**225384**	**225380**	**225378 ***
Pump Only	204867				
Metered Dispense Kit	239707	239705		-	-
Dispense Kit	-	-	-	214658	214658
Hose Diameter	-	-	1/2 in (12.7 mm)		
Hose Length	-	-	6 ft (1.8 m)		
Drum Cover	204574				
Caster Base	203622		-	-	203622
Cart	-	-	203650	-	-
Instruction Manual	306436				

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

225880

225380

225376

Pail Dispensing Package for 5 gal (20 l) Pails

Mounts on top of a standard 5 gal (20 l) pail (pail not included).
Delivery hose has curved nozzle that stores in cover port.

Description	Economy Gear-Lube Dispenser (Dispenses 1.6 to 1.9 oz. [47.3 to 56.2 ml] per stroke)
Package No.	226289
Hose length	4 ft (1.2 m)
Instruction manual	306875

226289

225384

225378

Lubricant and Coolant Transfer
Manually-Operated Pumps

Pumping Bulk Lubricants out of 16 gal (60 l) or 55 gal (200 l) Drums[1]

All pumps come with suction tube and bung adapter.

Description	Lever Pump[2]	Rotary Pump[3]	Hand-Lever Diaphragm Pump[4]
Pump Number	114829	226290	112202
Delivery rate	0.1 gal (0.4 l) per downstroke	1 gal (3.7 l) per 18 cycles	1 gal (3.7 l) per 9 cycles
Fluids Handled	Petroleum-based products, Anti-freeze	Petroleum-based products	Petroleum-based products[5]
Hose Length	-	-	8 ft (2.5 m)
Instruction manual	-	306876	-

[1] Drums not included
[2] Telescopic suction tube mounts 2 npt bung opening of 16 gal (60 l) or 55 gal (200 l) drum. Package includes bung adapter and spout outlet.
[3] Package has adjustable 2 npt bung mounting to allow use with either 16 gal (60 l) or 55 gal (200 l) drum. Package includes bung adapter and spout outlet.
[4] A double-action high volume pump for gasoline and similar petroleum products. Fits 30 gal (113 l) to 55 gal (200 l) drum. Complete with an 8 ft (2.4 m) hose with 3/4 in fittings and aluminum telescoping suction pipe. Delivers approximately one gallon per nine strokes.
[5] This package is recommended for gasoline, diesel, heating oil and petroleum products, but NOT recommended for water-based fluids, solvents or weak acids.

Manual Dispense from Bulk Containers

Description	Buckshot Luber with Booster Gun	Buckshot Luber without Booster Gun	Grease Gun Fill Pump	Grease Gun Fill Pump
Container Size	35 lb (16 kg)			120 lb (55 kg)
Package No.	225914[1]	225844[1]	112197[2]	112198[2]
Pump	203702		-	-
Dispense Kit	203703		Filler Adapter[3]	
Booster Gun	203697	-	-	-
Cover and Follower Plate	203701		-	-
Instruction Manual	306455		-	-

[1] 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.
[2] Fills all three-way loading grease guns equipped with filler fittings.
[3] Dispense kit 203703 can be used for direct greasing applications (must be ordered separately).

114829

226290

112202, 2 inch bung adapter, (2) 3/4 in npt(f) inlets includes down tube and hose

225914

112197

112198

SD Series™ Cord and Light Reels

Electric Cord Reels, Light Reels and Accessories

Features and Benefits

- Durable, heavy gauge steel frame won't flex or bend for long lasting performance
- Strong spring has the capacity to take on more load than the competition and is easy to pull down and retract so you don't have to fight to get it to operate
- One source for your entire automotive or industrial reel bank so you get everything you want including expert help when you need it
- Meets UL355*, CSA22.2 No. 21 and IP44 standards for general, commercial and industrial grade use
- Enclosed spring and components are protected from harmful elements for longer lasting, dependable operation
- Easy to install, maintain, and repair

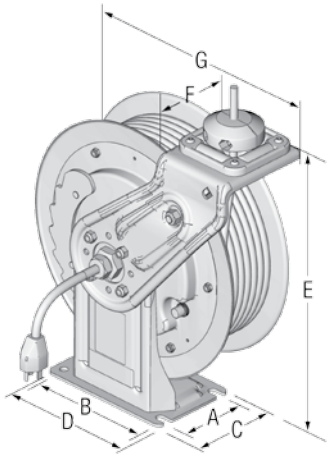
* Rated for light outdoor use

24Y862

Dimensions

SD SERIES SIZE 5	
A	3.5 in (89 mm)
B	6.38 in (162 mm)
C	4.7 in (120 mm)
D	7.48 in (190 mm)
E†	14.8 in (376 mm)
F*	6.6 in (168 mm)
G**	13.84 in (352 mm)

SD SERIES SIZE 10	
A	3.5 in (89 mm)
B	7.5 in (191 mm)
C	4.7 in (120 mm)
D	9 in (229 mm)
E†	19.5 in (498 mm)
F*	7 in (177 mm)
G**	17.5 in (445 mm)



† Measurement taken from base to top of bolts.
* Measurement taken from edge of spool to front of arm.
** Measurement taken from end of wire-nut to top surface of cover.

Technical Specifications

Operating Temperature:

Part numbers 24Y865, 24Y866, 24Y868-24Y872, 24Y877, 24Y878, 24Y884, 24Y886, 24Y887, 24Y890..... -22° F to 122° F (-30° C to 50° C)

Part numbers 24Y859, 24Y861-24Y864, 24Y873-24Y876, 24Y880, 24Y882, 24Y883, 24Y888, 24Y889..... -4° F to 104° F (-20° C to 40° C)

Weight without accessories:

Size 5: 16AWG, Cord Length - 35 Feet ..... 25.4 lbs
Size 5: 16AWG, Cord Length - 50 Feet ..... 27.6 lbs
Size 10: 16 AWG, Cord Length - 95 Feet ..... 46.3 lbs
Size 5: 12AWG, Cord Length - 35 Feet ..... 28.2 lbs
Size 5: 12AWG, Cord Length - 50 Feet ..... 32.0 lbs
Size 10: 12 AWG, Cord Length - 95 Feet ..... 51.8 lbs
Sound Pressure(1) ..... 80 dB(A)
Sound Power(2) ..... 87 dB(A)
Manual 3A2592

SD Series™ Cord and Light Reels

Electric Cord Reel and Accessories

Ordering Information with Specifications

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

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

Mounting Channel For Ceiling

For use when mounting reels without an enclosure. Available to accommodate one to six reels. Refer to manual for longer channels.

24N674	For mounting one SD Series Size 5 reel
24A934	For mounting one SD Series Size 10 reel**
24N675	For mounting two SD Series Size 5 reels
24A935	For mounting two SD Series Size 10 reels**

***Design is the same as SD Series size 10 hose reels.*

Enclosed Reel Mounting Channel For Ceiling or Wall

For use with enclosure kits only. Available to accommodate one to six reels. Refer to the manual for longer channels.

203521	For mounting one Size 5 and 10 reel
203522	For mounting two Size 5 and 10 reels

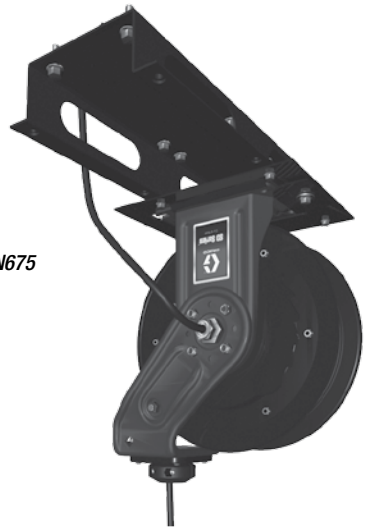
24Y883

24Y865

24Y868

24Y869

24Y871



24N675

Reels and Packages

SD Series™ Cord and Light Reels

Electric Cord Reel and Accessories

Ordering Information with Specifications

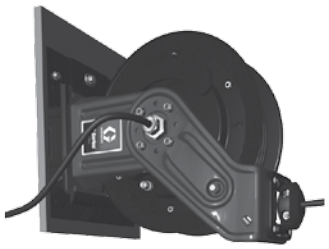
All Graco cord and light reels have a black finish and are 120 volt with UL/CSA approved.

Cord Reel Enclosure Kits

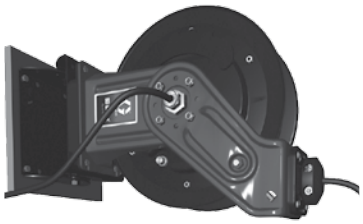
Enclosure kit for one reel provides protection to extend the life of reel, while giving your shop a professional look.

Size 5 Enclosure and spacer bracket	
24N690	White
24N682	Metallic Blue
24N683	Red
24N684	Black
24N691	Dark Blue
24N685	Yellow
Size 10 Enclosure kit for one reel	
24A217	White
24A940	Metallic Blue
24A941	Red
24A942	Black
24A943	Dark Blue
24A944	Yellow
End Panel Kits	
24A950	Black only (Same kit as Size 10 hose reels)
Retrofit Mounting Bracket	
24P164	Size 5 spacer bracket only, for mounting in existing size 10 enclosure.
24P880	Size 5 spacer bracket only, for mounting in existing size 20 enclosure.
24P881	Size 10 spacer bracket only, for mounting in existing size 20 enclosure.
16N883	Clamping plate to mount size 5 reel to existing SD Series open channel.
Swivel Mount Bracket For Wall Allows reel to swivel 120° with two lockable positions	
24N814	SD Series size 5
24N444	SD Series size 10
Easy Slide-in Mount For Ceiling or Wall Allows you to slide the reel in and out for easy installation	
24N686	SD Series size 5
24H193	SD Series size 10
I Beam Mounting Kit For Ceiling Secures mounting channel to I-beam without drilling	
204741	Fits SD Series size 5 and 10 reels (Two brackets are required for one to three reels)
Hands-free Magnetic Clip	
16P999	Magnetic clip with non-marring cover won't scratch vehicle finish. Snap onto light tube for hands-free operation. Spin the fixture to direct light where you need it.
Retrofit Mounting Bracket For Competitive reel replacement	
24N688	Fits size 5 reel
24N689	Fits size 10 reel

24N690



24N686



24N814

16P999

LD Series Enclosed Hose Reels

Hose Reels and Packages

Features and Benefits

- Designed for light-duty applications
- Enclosed for safety and protection, extends hose life
- Flexible mounting options–hang on wall or ceiling; bench, table or tank top-mount options are available
- Full-flow swivel maximizes fluid flow with minimal pressure drop
- Easy spring tension adjustment–increase or decrease pressure spring tension while reel is pressurized

Typical Applications

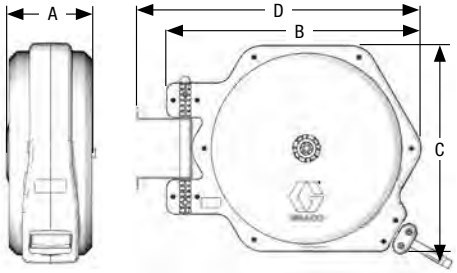
- Small maintenance shops
- Tire/muffler shops
- Small fast lubes
- Independent repair facilities
- Industrial manufacturing facilities

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Grease
- Air only
- Air/water
- Anti-freeze
- Windshield washer

Dimensions

LD SERIES	
A	7.1 in (180 mm)
B	23.0 in (585 mm)
C	18.5 in (470 mm)
D	25.6 in (650 mm)



Enclosed hose reel comes with ceiling/wall mounting swivel bracket. Required inlet hose kit sold separately.

Hose Inlet Kit for LD enclosed reels

NPT Replacement Reels* Ordering Information

Part Number	Application	Hose Size Id x Length		Pressure psi (bar)	Connection Size Inlet NPT(m) x Outlet NPT(m)
24H655	Air Only	6 mm x 11 m	1/4 in x 35 ft	250 (17.2)	1/2 in x 1/4 in
24H656	Air Only	6 mm x 15 m	1/4 in x 50 ft	250 (17.2)	1/2 in x 1/4 in
24H657	Air/Water/Anti-Freeze/Windshield Washer Fluid	10 mm x 11 m	3/8 in x 35 ft	250 (17.2)	1/2 in x 3/8 in
24H658	Air/Water/Anti-Freeze/Windshield Washer Fluid	10 mm x 15 m	3/8 in x 50 ft	250 (17.2)	1/2 in x 3/8 in
24H659	Air/Water/Anti-Freeze/Windshield Washer Fluid	12 mm x 11 m	1/2 in x 35 ft	250 (17.2)	1/2 in x 1/2 in
24H660	Air/Water/Anti-Freeze/Windshield Washer Fluid	12 mm x 14 m	1/2 in x 45 ft	250 (17.2)	1/2 in x 1/2 in
24H661	Oil	10 mm x 11 m	3/8 in x 35 ft	1800 (124)	1/2 in x 3/8 in
24H662	Oil	12 mm x 11 m	1/2 in x 35 ft	1800 (124)	1/2 in x 1/2 in
24H663	Grease	6 mm x 11 m	1/4 in x 35 ft	5000 (345)	3/8 in x 1/4 in

**Reel only. Mounting Hardware is not included*

Hose Inlet Kits for LD Enclosed Hose Reel

	Part Number	Hose Inlet Description	Fits Reel	Pressure psi (bar)	Hose id in (mm)	Length in (mm)	Hose Inlet in	Hose Outlet in
For NPT connections	24C443	Air	24H655	250 (17.2)	1/4 (6)	36 in (915)	1/4 npt(m)*	1/4 npt(m)*
			24H656					
	24C444	Air/Water/Anti-Freeze/ Windshield Washer Fluid	24H657 / 24H658 24H659 / 24H660		3/8 (10)		1/2 npt(m)*	3/8 npt(m)*
	24C537	Oil	24H661	1,800 (124)	3/8 (10)			3/8 npt(m)*
	24C538		24H662		1/2 (12)			1/2 npt(m)*
	24C539	Grease	24H663	5,000 (345)	1/4 (6)		1/4 npt(m)*	1/4 npt(m)*

**NPT hose connection when using BSP to NPT adapter (included)*

LD Series Enclosed Hose Reels

Hose Reels and Packages

Wall Mount Package* (NPT)

Package Part Number	Application	Hose Size Id x Length	Reel (NPT)	Wall Mount Kit	Inlet Kit
24F735	Air	1/4 in x 35 ft	24H655	24G866	24C443
24F736	Air	1/4 in x 50 ft	24H656	24G866	24C443
24F737	Air/Water/Anti-Freeze/Windshield Washer Fluid	3/8 in x 35 ft	24H657	24G866	24C444
24F738	Air/Water/Anti-Freeze/Windshield Washer Fluid	3/8 in x 50 ft	24H658	24G866	24C444
24F739	Air/Water/Anti-Freeze/Windshield Washer Fluid	1/2 in x 35 ft	24H659	24G866	24C444
24F740	Air/Water/Anti-Freeze/Windshield Washer Fluid	1/2 in x 45 ft	24H660	24G866	24C444
24F741	Oil	3/8 in x 35 ft	24H661	24G866	24C537
24F742	Oil	1/2 in x 35 ft	24H662	24G866	24C538
24F743	Grease	1/4 in x 35 ft	24H663	24G866	24C539

**Hose Reel, Inlet Kit, and Wall Mount Bracket Kit included.*

Fixed/Ceiling Mount Package* (NPT)

Package Part Number	Application	Hose Size Id x Length	Reel (NPT)	Fixed Mount Kit	Inlet Kit
24F753	Air	1/4 in x 35 ft	24H655	24G865	24C443
24F754	Air	1/4 in x 50 ft	24H656	24G865	24C443
24F755	Air/Water/Anti-Freeze/Windshield Washer Fluid	3/8 in x 35 ft	24H657	24G865	24C444
24F756	Air/Water/Anti-Freeze/Windshield Washer Fluid	3/8 in x 50 ft	24H658	24G865	24C444
24F757	Air/Water/Anti-Freeze/Windshield Washer Fluid	1/2 in x 35 ft	24H659	24G865	24C444
24F758	Air/Water/Anti-Freeze/Windshield Washer Fluid	1/2 in x 45 ft	24H660	24G865	24C444
24F759	Oil	3/8 in x 35 ft	24H661	24G865	24C537
24F760	Oil	1/2 in x 35 ft	24H662	24G865	24C538
24F761	Grease	1/4 in x 35 ft	24H663	24G865	24C539

**Reel, Inlet kit, and Fixed Bracket Kit included.*

Swivel/Bench Mount Package* (NPT)

Package Part Number	Application	Hose Size Id x Length	Reel (NPT)	Swivel Mount Kit	Inlet Kit
24F771	Air	1/4 in x 35 ft	24H655	24C772	24C443
24F772	Air	1/4 in x 50 ft	24H656	24C772	24C443
24F773	Air/Water/Anti-Freeze/Windshield Washer Fluid	3/8 in x 35 ft	24H657	24C772	24C444
24F774	Air/Water/Anti-Freeze/Windshield Washer Fluid	3/8 in x 50 ft	24H658	24C772	24C444
24F775	Air/Water/Anti-Freeze/Windshield Washer Fluid	1/2 in x 35 ft	24H659	24C772	24C444
24F776	Air/Water/Anti-Freeze/Windshield Washer Fluid	1/2 in x 45 ft	24H660	24C772	24C444
24F777	Oil	3/8 in x 35 ft	24H661	24C772	24C537
25A113	Oil	1/2 in x 35 ft	24H662	24C772	24C538
24F779	Grease	1/4 in x 35 ft	24H663	24C772	24C539

**Hose Reel, Inlet Kit, and Swivel Bracket Kit included.*

Mounting Kits Ordering Information

Part Number	Description
24G866	Wall Mount Kit
24G865	Fixed Bracket New Installation Kit
24E506	Fixed Bracket Replacement Kit
24C772	Swivel Bracket Kit

24E506

24C772

SD 10™ and SD 20™ Hose Reels

Hose Reels and Packages

Features and Benefits

- Designed for daily use applications such as dealerships, fleet service, maintenance facilities, in-plant applications
- Structurally engineered frame made from high strength steel won't bend or flex
- Long-lasting spring provides constant spring torque through the entire range of motion
- Flexible positioning of guide arm for mounting on bench or ceiling, wall, or utility truck
- Steel spool for demanding applications
- Open swivel ports ensure high fluid flow with minimal pressure loss
- Enclosure kits available–ideal when appearance and protection is important
- Available in six colors. Metallic blue is standard.

Single pedestal with metal spool. Inlet Hose Kit sold separately.

Typical Applications

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

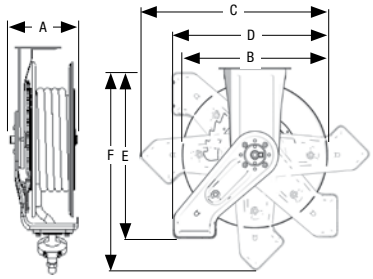
Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Grease
- Air
- Water
- Anti-freeze
- Windshield washer

Dimensions

SD 10	
A	7.0 in (177 mm)
B	16.2 in (412 mm)
C	21.0 in (533 mm)
D	17.1 in (435 mm)
E	19.5 in (495 mm)
F	22.5 in (571 mm)

SD 20	
A	7.0 in (177 mm)
B	18.1 in (460 mm)
C	23.4 in (594 mm)
D	19.2 in (488 mm)
E	21.8 in (554 mm)
F	25.2 in (640 mm)



HPM6HB

Ordering Information

Technical Specifications

Applications		Model numbers by color						Pressure	Hose		Connection Size		Operating Temp.
		Metallic Blue	White	Red	Black	Dark Blue	Yellow	psi (bar)	id (in)	Length ft (mt)	Inlet npsm(m)	Outlet	
Air, Water, Anti-Freeze, Windshield Washer Fluid	SD 10	HPL23B	HPL23A	HPL23C	HPL23D	HPL23E	HPL23F	300 (20.7)	3/8	35 (11)	1/2	3/8 npt (m)	-20º–190º F (-28º–87º C)
		HPL25B	HPL25A	HPL25C	HPL25D	HPL25E	HPL25F	300 (20.7)	3/8	50 (15)	1/2	3/8 npt (m)	
		HPL2DB*	HPL2DA*	HPL2DC*	HPL2DD*	HPL2DE*	HPL2DF*	300 (20.7)	3/8	50 (15)	3/8	1/2 npt (m)	
		HPL33B	HPL33A	HPL33C	HPL33D	HPL33E	HPL33F	300 (20.7)	1/2	35 (11)	1/2	1/2 npt (m)	
	SD 20	HPL56B	HPL56A	HPL56C	HPL56D	HPL56E	HPL56F	300 (20.7)	3/8	65 (20)	1/2	3/8 npt (m)	
		HPL5JB**	HPL5JA**	HPL5JC**	HPL5JD**	HPL5JE**	HPL5JF**	300 (20.7)	3/8	65 (20)	1/2	3/8 npt (m)	
		HPL65B	HPL65A	HPL65C	HPL65D	HPL65E	HPL65F	300 (20.7)	1/2	50 (15)	1/2	1/2 npt (m)	
		HPL6DB*	HPL6DA*	HPL6DC*	HPL6DD*	HPL6DE*	HPL6DF*	300 (20.7)	1/2	50 (15)	1/2	1/2 npt (m)	
		HPL6HB**	HPL6HA**	HPL6HC**	HPL6HD**	HPL6HE**	HPL6HF**	300 (20.7)	1/2	50 (15)	1/2	1/2 npt (m)	
Petroleum- or Synthetic-Based Oils	SD 10	HPM33B	HPM33A	HPM33C	HPM33D	HPM33E	HPM33F	2,000 (138)	1/2	35 (11)	1/2	1/2 npt (m)	
		HPM3BB*	HPM3BA*	HPM3BC*	HPM3BD*	HPM3BE*	HPM3BF*	2,000 (138)	1/2	35 (11)	1/2	1/2 npsm (f)	
	SD 20	HPM65B	HPM65A	HPM65C	HPM65D	HPM65E	HPM65F	2,000 (138)	1/2	50 (15)	1/2	1/2 npt (m)	
		HPM6DB*	HPM6DA*	HPM6DC*	HPM6DD*	HPM6DE*	HPM6DF*	2,000 (138)	1/2	50 (15)	1/2	1/2 npsm (f)	
		HPM6HB**	HPM6HA**	HPM6HC**	HPM6HD**	HPM6HE**	HPM6HF**	2,000 (138)	1/2	50 (15)	1/2	1/2 npsm (f)	
Grease	SD 10	HPH15B	HPH15A	HPH15C	HPH15D	HPH15E	HPH15F	5,000 (345)	1/4	50 (15)	3/8	1/4 npt (m)	-40º–200º F (-40º–93º C)
		HPH23B	HPH23A	HPH23C	HPH23D	HPH23E	HPH23F	4,000 (276)	3/8	35 (11)	3/8	1/4 npt (m)	
		HPH1DB*	HPH1DA*	HPH1DC*	HPH1DD*	HPH1DE*	HPH1DF*	5,000 (345)	3/8	35 (11)	3/8	1/4 npt (f)	
	SD 20	HPH55B	HPH55A	HPH55C	HPH55D	HPH55E	HPH55F	4,000 (276)	3/8	50 (15)	3/8	1/4 npt (m)	
		HPH5DB*	HPH5DA*	HPH5DC*	HPH5DD*	HPH5DE*	HPH5DF*	4,000 (276)	3/8	50 (15)	3/8	1/4 npt (f)	
		HPH5HB**	HPH5HA**	HPH5HC**	HPH5HD**	HPH5HE**	HPH5HF**	4,800 (331)	3/8	50 (15)	3/8	1/4 npt (f)	

**Bare reel–hose sold separately. **Arm in tank/bench mount position.*

SD 10™ and SD 20™ Hose Reel Packages and Accessories

Hose Reels and Packages

SD Reel Packages with Enclosure Kit							
	Application	SD Packages	Hose Reel	Hose Inlet Kit	White Enclosure	Valve/Meter	Fitting
Steel Spool	Air/Water	24D989	HPL23B	218549	24A217	–	–
	Air/Water	24D990	HPL25B	218549	24A217	–	–
	Air/Water	24D991	HPL33B	218549	24A217	–	–
	Air	24D992	HPL23B	218549	24A217	218545	–
	Water	24D993	HPL23B	218549	24A217	180685	150287
	Water	24D994	HPL33B	218549	24A217	180685	159842
	Motor Oil	24D995	HPM33B	218549	24A217	–	–
	Motor Oil	24D996	HPM33B	218549	24A217	255350	–
	Motor Oil	24D997	HPM33B	218549	24A217	255348	–

SD Reel Packages without Enclosure Kit							
	Application	SD Packages	Hose Reel	Hose Inlet Kit	Enclosure	Valve/Meter	Fitting
Steel Spool	Air	24D998	HPL23B	218549	–	218545	–
	Water	24D999	HPL23B	218549	–	180685	150287
	Motor Oil	24E001	HPM33B	218549	–	255350	–
	Motor Oil	24E002	HPM33B	218549	–	255348	–

SD Hose Inlet Kits		Pressure psi (bar)	Hose id in (mm)	Length in (mm)	Hose Inlet
218549	Low/medium pressure	2000 (137)	1/2 (12)	24 (610)	npt(m)
218550	High pressure	4000 (276)	3/8 (10)	24 (610)	npt(m)
224417	High pressure	5000 (345)	1/4 (6)	24 (610)	npt(m)

Reel Enclose Kits for One Reel	Provides protection to extend the life of hoses and bearings for SD single pedestal reels					
	White*	Metallic Blue	Red	Black	Dark Blue	Yellow
SD 10 Enclosure	24A217	24A940	24A941	24A942	24A943	24A944
SD 20 Enclosure	24A218	24A945	24A946	24A947	24A948	24A949
SD 10 End Caps (2)	—	—	—	24A950	—	—
SD 20 End Caps (2)	—	—	—	24A951	—	—

Enclosed Reel Mounting Channel	Enclosure mounting channel kits include all parts for mounting hose reels to walls or ceilings					
Description	1 Reel	2 Reels	3 Reels	4 Reels	5 Reels	6 Reels
SD Enclosed	203521	203522	203523	203524	203525	203526
Open Reel Mounting Channel	Accommodates one, two, three, four, five or six reels (includes all parts for wall or ceiling mounts)					
	1 Reel	2 Reels	3 Reels	4 Reels	5 Reels	6 Reels
SD 10/SD 20 Open	24A934	24A935	24A936	24A937	24A938	24A939

Retrofit Adapter Kits	
24A224	Includes all parts to mount hose reel to existing 500 series mounting pattern
24C100	Includes all parts to convert SD10 hose reels to fit existing 250 series enclosures
Mounting Bracket (Secures mounting channel to I-beam without drilling)	
204741	Two brackets are required for 1-3 hose reels; three brackets for 4-6 hose reels
Swivel Mounting Bracket	
24N444	Swivel mounting bracket for installing SD and XD hose reel and SD10 electric cord reel
24N814	Swivel mounting bracket for installing SD5 electric cord reel
Ball Stop Kits	
222225	For 1/4 in (6.4 mm) i.d. hose (*Not for use with XD30, 700 or 750*)
218340	For 1/4-3/8 in (6.4-9.5 mm) i.d. hose (*Not for use with XD30, 700 or 750*)
218341	.782 ID used for 3/8 in and 1/2 in (9.5 mm and 12.7 mm) hose (*Not for use with XD30, 700 or 750*)
237872	1.0 ID used for 5/8 in (15.9 mm) hose
237873	1.123 ID used for 3/4 in (19.1 mm) hose
237874	1.374 ID used for 1 in (25.4 mm) hose
24D132	For 3/8 in (9.5 mm) o.d. hose
24D133	For 1/2 in (12.7 mm) o.d. hose

**Bare Reel–hose sold separately. Wetted parts–bare hose reel only: zinc plated steel, steel, nitrile rubber. Dry Weight: 52 lbs (23.5 kg). Instruction Manual: 313431*

Hose Reel Enclosure

Mounting Channel

Mounting Bracket

Swivel Mounting Bracket

Hose Inlet Kit for SD open reels

XD 10™, XD 20™ and XD 30™ Hose Reels

Hose Reels and Packages

Features and Benefits

- Designed for robust/heavy-duty applications such as mobile lube trucks or large equipment service, yet with a narrow footprint to fit more reels into small spaces
- Dual pedestal frame provides increased strength for extreme-duty applications
- Long lasting spring is sealed for protection against the weather
- Durable steel spool rides on sealed roller bearings to ensure trouble-free performance
- Available in four colors. Metallic blue is standard.
- Available with arms removed for bulkhead mounting

Typical Applications

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garages
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Mining

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Grease
- Fuel
- Pressure wash
- Air
- Water
- Anti-freeze
- Windshield washer
- Waste oil

Note: Hose Inlet Kit for all XD Reels sold separately.

Dimensions

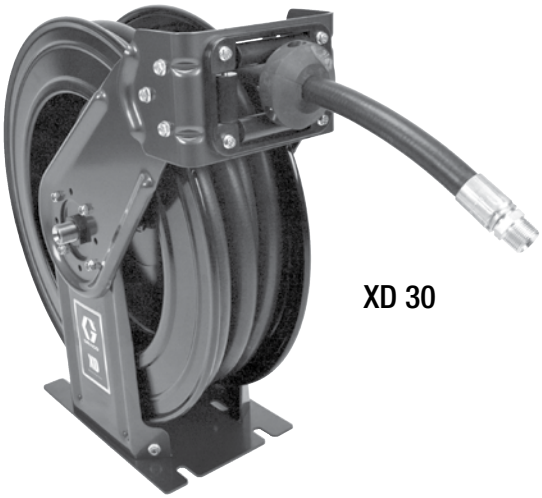
XD 10	
A	7.5 in (196 mm)
B	16.2 in (412 mm)
C	21.0 in (533 mm)
D	18.0 in (457mm)
E	18.5 in (470 mm)
F	22.5 in (571 mm)

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

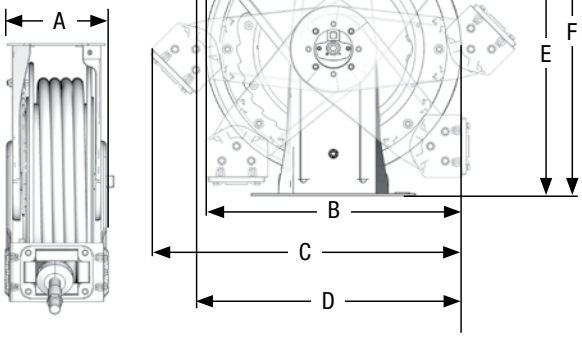
XD 30	
A	9.0 in (229 mm)
B	21.50 in (546.00 mm)
C	25.96 in (659.45 mm)
D	22.12 in (561.73 mm)
E	23.10 in (588.00 mm)
F	27.60 in (700.82 mm)

XD 10

XD 20



XD 30



XD 10™, XD 20™ and XD 30™ Hose Reels

Hose Reels and Packages

Ordering Information / Technical Specifications

Applications		Model numbers by color				Pressure	Hose		Connection Size		Operating Temp.
		Metallic Blue	White	Yellow	Desert Sand	psi (bar)	id in	Length ft (m)	Inlet in	Outlet in	
Air, Water, Anti-Freeze, Windshield Washer Fluid	XD 10	HSL25B	HSL25A	HSL25F	HSL25G	300 (20.7)	3/8	50 (15)	1/2 npsm(m)	3/8 npt(m)	-20–190º F (-28–87º C)
		HSL2DB*	HSL2DA*	HSL2DF*	HSL2DG*		3/8	50 (15)		3/8 npt(m)	
		HSL33B	HSL33A	HSL33F	HSL33G		1/2	35 (11)		1/2 npt(m)	
	XD 20	HSL56B	HSL56A	HSL56F	HSL56G		3/8	65 (20)		3/8 npt(m)	
		HSL65B	HSL65A	HSL65F	HSL65G		1/2	50 (15)		1/2 npt(m)	
		HSL6DB*	HSL6DA*	HSL6DF*	HSL6DG*		1/2	50 (15)		1/2 npt(m)	
	XD 30	HSLC8B	HSLC8A	HSLC8F	HSLC8G		1/2	75 (23)		1/2 npt(m)	-40–180º F (-40–82º C)
		HSLD5B	HSLD5A	HSLD5F	HSLD5G		3/4	50 (15)	3/4 npsm(m)	3/4 npt(m)	
Petroleum– and Synthetic–Based Oils	XD 10	HSM33B	HSM33A	HSM33F	HSM33G	2,000 (138)	1/2	35 (11)	1/2 npsm(m)	1/2 npt(m)	-20–190º F (-28–87º C)
		HSM3BB*	HSM3BA*	HSM3BF	HSM3BG			35 (11)		1/2 npt(f)	
	XD 20	HSM65B	HSM65A	HSM65F	HSM65G			50 (15)		1/2 npt(m)	
		HSM6DB*	HSM6DA*	HSM6DF*	HSM6DG			50 (15)		1/2 npt(f)	
	XD 30	HSMC8B	HSMC8A	HSMC8F	HSMC8G	1,500 (103)		75 (23)		1/2 npt(m)	-40–180º F (-40–82º C)
		HSMCFB*	HSMCFA*	HSMCFF*	HSMCFG*	2,000 (138)		75 (23)		1/2 npsm(f)	
		HSMD5B	HSMD5A	HSMD5F	HSMD5G	1,250 (86)	3/4	50 (15)	3/4 npsm(m)	3/4 npt(m)	
		HSMDDB*	HSMDDA*	HSMDDF*	HSMDDG*	2,000 (138)	3/4			3/4 npsm(f)	
Grease	XD 10	HSH15B	HSH15A	HSH15F	HSH15G	8,000 (552)	1/4	50 (15)	3/8 npsm(m)	1/4 npt(m)	-40–200º F (-40º–93º C)
		HSH1DB*	HSH1DA*	HSH1DF*	HSH1DG*		3/8	35 (11)	1/2 npsm(m)	3/8 npt(f)	
	XD 20	HSH55B	HSH55A	HSH55F	HSH55G	4,000 (276)	3/8	50 (15)		1/4 npt(m)	
		HSH5DB*	HSH5DA*	HSH5DF*	HSH5DG*	8,000 (552)				3/8 npsm(f)	
	XD 30	HSHC5B	HSHC5A	HSHC5F	HSHC5G	5,000 (345)	1/2			1/2 npt(m)	-40–180º F (-40–82º C)
		HSHCDB*	HSHCDA*	HSHCDF*	HSHCDG*					1/2 npsm(f)	
		HSHB7B	HSHB7A	HSHB7F	HSHB7G		3/8	75 (23)		3/8 npt(f)	
Pressure Wash	XD 30	HSPB8B	HSPB8A	HSPB8F	HSPB8G	4,000 (276)	3/8	75 (23)	1/2 npsm(m)	3/8 npt(m)	-20–225º F (-28–107º C)
		HSHFFB*	HSHFFA*	HSHFFF*	HSHFFG*					3/8 npsm(f)	
		HSPC5B	HSPC5A	HSPC5F	HSPC5G	4,500 (310)	1/2	50 (15)		1/2 npt(m)	
Fuel/Evacuation	XD 30	HSLE3B	HSLE3A	HSLE3F	HSLE3G	125 (8.6)	1	30 (9)	3/4 npsm(m)	1 npt(m)	-40–120º F (-40–49º C)
DEF	XD 30	HSDD5B	HSDD5A	HSDD5F	NA	50 (3.4)	3/4	50 (15)	3/4 bspp(m)	3/4 bspp ORB	12–140º F (-11–60º C)
		HSDDDB*	HSDDDA	HSDDDF	NA						

Maximum dry weight with hose: XD10 = 54 lbs (24.5 kg), XD20 = 59 lbs (27 kg), XD30 = 98 lbs (44.5 kg)
Wetted parts–Bare hose reel only: zinc plated steel, anodized aluminum, nitrile rubber
Instruction Manuals: XD10 and XD20: 313431, XD30: 3A0138
**Bare reel–hose sold separately.*

XD Series HN Model Hose Reels

Hose Reels and Packages

Features and Benefits

Ideally suited for lube truck installations where space is a premium. Structurally engineered frame and spool is made from high strength steel that won't bend or flex. Long-lasting spring provides constant spring torque through the entire range of motion. Open swivel ports ensure high fluid flow with minimal pressure loss.

Typical Applications

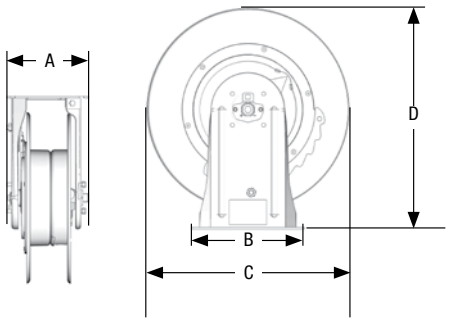
- Mining maintenance
- Public works garages
- Construction vehicle maintenance
- Light-utility service trucks

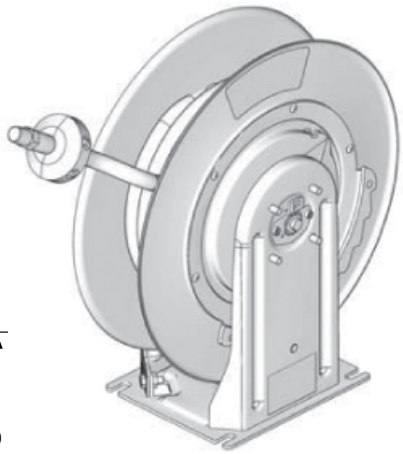
Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Grease
- Air
- Water
- Anti-freeze
- Fuel evacuation
- Windshield washer
- Waste oil

Dimensions

XD 30 Hose Reels HN Model	
A	9.0" (229 mm)
B	13.77" (350.00 mm)
C	21.50" (546.00 mm)
D	23.10" (588.00 mm)





Ordering Information

Technical Specifications

Applications		Model numbers by color			Pressure psi (bar)	Hose		Connection Size		Operating Temp.
		Metallic Blue	White	Yellow		id in. (mm)	Length ft (m)	Inlet npsm(m)	Outlet	
Air, Water, Anti-Freeze, Windshield Washer Fluid	XD 20 HN	HNL56B	HNL56A	HNL56F	300 (20.7)	3/8	65	1/2 npsm(m)	3/8npt(m)	-20º F to 190º F (-28º C to 87º C)
		24C246^	24C245^	24C247^	300 (20.7)	3/8	65	1/2 npsm(m)	3/8npt(m)	
		HNL65B	HNL65A	HNL65F	300 (20.7)	1/2	50	1/2 npsm(m)	1/2 npt(m)	
		24C249^	24C248^	24C250^	300 (20.7)	1/2	50	1/2 npsm(m)	1/2 npt(m)	
	XD 30 HN	HNLC8B	HNLC8A	HNLC8F	300 (20.7)	1/2	75	1/2 npsm(m)	1/2 npt(m)	-40º F to 180º F (-40º C to 82º C)
		HNLD5B	HNLD5A	HNLD5F	300 (20.7)	3/4	50	3/4 npsm(m)	3/4 npt(m)	
Petroleum- and Synthetic-Based Oils	XD 20 HN	HNM65B	HNM65A	HNM65F	2000 (138)	1/2	50	1/2 npsm(m)	1/2 npt(m)	-20º F to 190º F (-28º C to 87º C)
		24C252^	24C251^	24C253^	2000 (138)	1/2	50	1/2 npsm(m)	1/2 npt(m)	
	XD 30 HN	HNMC8B	HNMC8A	HNMC8F	1500 (103)	1/2	75	1/2 npsm(m)	1/2 npt(m)	-40º F to 180º F (-40º C to 82º C)
		HNMD5B	HNMD5A	HNMD5F	1250 (86)	3/4	50	3/4 npsm(m)	3/4 npt(m)	
		HNMDDB*	HNMDDA*	HNMDDF*	2000 (138)	3/4	50	3/4 npsm(m)	3/4 npt(m)	
Grease	XD 20 HN	HNH55B	HNH55A	HNH55F	4800 (331)	3/8	50	3/8 nptsm(m)	1/4 npt(m)	-40º F to 200º F (-40º C to 93º C)
		24C255^	24C254^	24C256^	4800 (331)	3/8	50	3/8 nptsm(m)	1/4 npt(m)	
	XD 30 HN	HNHC5B	HNHC5A	HNHC5F	5000 (345)	1/2	50	1/2 npsm(m)	1/2 npt(m)	-40º F to 180º F (-40º C to 82º C)
		HNHCDB*	HNHCDA*	HNHCDF*	5000 (345)	1/2	50	1/2 npsm(m)	1/2 npt(m)	
		HNHB7B	HNHB7A	HNHB7F	5000 (345)	3/8	75	1/2 npsm(m)	3/8 npt(m)	
Pressure Wash	XD 30 HN	HNPB8B	HNPB8A	HNPB8F	4000 (276)	3/8	75	1/2 npsm(m)	3/8 npt(m)	-20º F to 225º F (-28º C to 107º C)
		HNHFFB*	HNHFFA*	HNHFFF*	4000 (276)	3/8	75	1/2 npsm(m)	3/8 npsm(f)	
		HNPC5B	HNPC5A	HNPC5F	4500 (310)	1/2	50	1/2 npsm(m)	1/2 npt(m)	
Fuel/Evacuation		HNLE3B	HNLE3A	HNLE3F	125 (86)	1	30	3/4 npsm(m)	1 npt(m)	-40º F to 100º F (-40º C to 49º C)

*Bare reel hose sold seperately ^ Reel package includes hose guide kit 15Y478

Wetted parts–bare hose reel only: zinc-plated steel, steel, nitrile rubber HN Dry Weight: 64 pounds (29.0 kg) Instruction Manual: 3A0138
Wetted parts–HSL, HSM, HNL, and HNM Models are Nickel Plated Carbon Steel, Aluminum, Buna N Rubber, UHMWPE. HSH, HSP, HNH, and HNP Models are Nickel Plated Stainless Steel, Buna N Rubber, UHMWPE

XD 10™, XD 20™ and XD 30™ Hose Reel Accessories

Hose Reels and Packages

Ordering Information

XD Enclosure Kits	Provides protection to extend the life of hose and bearings for XD reels					
Reel Enclose kits for One Reel	White	Metallic Blue	Red	Black	Dark Blue	Yellow
XD 10 Enclosure	24N331	24N332	24N333	24N334	24N335	24N336
XD 20 Enclosure	24N337	24N339	24N340	24N341	24N342	24N343
XD 10 End Caps (2)	—	—	—	24A950	—	—
XD 20 End Caps (2)	—	—	—	24A951	—	—
Enclosed Reel Mounting Channel	Enclosure mounting channel kits include all parts for mounting hose reels to walls or ceilings					
Description	1 Reel	2 Reels	3 Reels	4 Reels	5 Reels	6 Reels
XD Enclosed	24N323	24N324	24N325	24N326	24N327	24N328
Open Reel Mounting Channel	Accommodates one, two, three, four, five or six reels (includes all parts for wall or ceiling mounts)					
	1 Reel	2 Reels	3 Reels	4 Reels	5 Reels	6 Reels
XD 10/XD 20 Open	24A219	24A220	24A221	—	—	24A222

Retrofit Adapter Kits	
24A224	Includes all parts to mount hose reel to existing 500 series mounting pattern
24C100	Includes all parts to convert SD10 hose reels to fit existing 250 series enclosures
24P914	Includes all parts to convert XD20 hose reels to fit existing 500 series enclosures
Mounting Bracket	
204741	Secures mounting channel to I-beam without drilling. Two brackets are required for 1-3 hose reels; three brackets for 4-6 hose reels
Ball Stop Kits	**Typical Hose I.D.**
222225	For 1/4 in (6.4 mm) I.D. hose *(Not for use with XD30, 700 or 750)*
218340	For 1/4-3/8 in (6.4-9.5 mm) I.D. hose *(Not for use with XD30, 700 or 750)*
218341	.782 I.D. used for 3/8 in and 1/2 in (9.5 mm and 12.7 mm) hose *(Not for use with XD 30, 700 or 750)*
237872	1.0 I.D. used for 5/8 in (15.9 mm) hose
237873	1.123 I.D. used for 3/4 in (19.1 mm) hose
237874	1.374 I.D. used for 1 in (25.4 mm) hose
24D132	For 3/8 in (9.5 mm) O.D. hose
24D133	For 1/2 in (12.7 mm) O.D. hose

Hose Inlet Kits for XD 10 and XD 20		**Pressure psi (bar)**	**Hose id in (mm)**	**Length in (mm)**	**Hose Inlet**
218549	Low/medium pressure	2000 (137)	1/2 (12)	24 (610)	npt(m)
218550	High pressure	4000 (276)	3/8 (10)	24 (610)	npt(m)
224417	High pressure	5000 (345)	1/4 (6)	24 (610)	npt(m)
Hose Inlet Kits for XD 30		**Pressure psi (bar)**	**Hose id in (mm)**	**Length in (mm)**	**Hose Inlet**
24E283	High pressure	5000 (345)	1/2 (12)	24 (610)	npt(m)
24E284	Low/medium pressure	1250 (86)	3/4 (19)	24 (610)	npt(m)
218549	Low/medium pressure	2000 (137)	1/2 (12)	24 (610)	npt(m)
24E285	Low pressure (for fuel)	125 (8.6)	1/2 (12)	24 (610)	npt(m)

DEF Hoses	
124875	DEF hose, 2 ft, 3/4 in BSPP (M) x cut end (inlet hose)
124581	DEF hose, 6 ft, 3/4 in BSPP (M) x cut end (inlet hose)
Valve Hanger Kit	
224444	Mounts to side of reel to allow hanging of non-metered and high flow dispensing valves

Metal Label Kits (includes one 3/4 in x 4-1/4 in (1.9 cm x 10.8 cm) metal label and mount)					
218670	Motor oil	218675	Air	218674	Hydraulic Oil
218671	Grease	218676	Water	218673	ATF
218672	Gear lube	218677	Anti-Freeze	218678	Evacuation

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

Mounting Channel

Retrofit Bracket to fit 500 Series

Mounting Bracket

Ball Stop Kit

Hose Reel Enclosure

XD 40™ and XD 50™ Hose Reels

Hose Reels and Packages

Features and Benefits

- More hoses to choose from. Standard models come complete with factory installed hoses on the reel.
- Rotatable inlet position makes mounting easier in more applications.
- A Graco exclusive–breakthrough swivel design allows better flow to get work done faster. Materials are corrosion resistant and strong for long lasting performance.
- Improved ratchet design has one set of teeth instead of two to avoid reel lockout.
- Heavy-duty welded spool is stronger than bolted frames that can loosen with use. Ribs add extra strength for toughness over the long haul.
- Meets worldwide standards. Built with NPT, BSPP or BSPT threads means accessories screw right on without the need for adapters. 1.5" models also include 2" Victaulic*-style groove.

*Victaulic is a trademark of Victaulic Company of America.

XD 40

XD 50

Typical Applications

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garages
- Construction vehicle maintenance
- Heavy-duty mobile service trucks

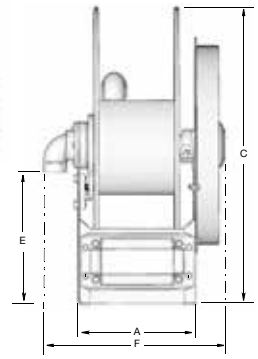
Typical Fluids Handled

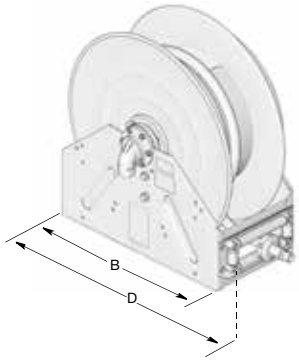
- Petroleum- and synthetic-based oils
- Diesel fuel
- Air
- Water
- Anti-freeze
- Waste oil

Dimensions

XD 40 REELS	
A	11.83 in (300 mm)
B	24 in (610 mm)
C	26.13 in (664 mm)
D	26.4 in (671 mm)
E	10.91 in (277 mm)
F: Model 1	16.54 in (420 mm)
F: Model 2	17.47 in (444 mm)

XD 50 REELS	
A	11.83 in (300 mm)
B	28.5 in (724 mm)
C	30.13 in (765 mm)
D	29.4 in (747 mm)
E	10.91 in (277 mm)
F: Model 3	17.47 in (444 mm)
F: Model 4	18.24 in (463 mm)





XD 40™ and XD 50™ Hose Reels

Hose Reels and Packages

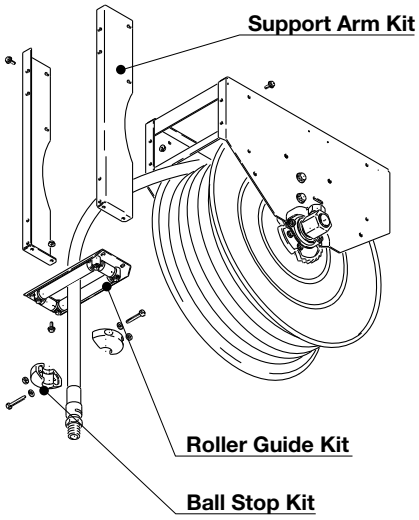
Reel with Hose Ordering Information | Technical Specifications

Applications		Model numbers by color			Pressure psi (bar)	Hose		Dimension "F"	Connection Size		Operating Temperature
		Blue	Yellow	White		id in	Length ft (m)		Inlet npt (f)	Outlet npt (m)	
Air/Water/ Anti-Freeze	XD 40	24P327	24P328	24P329	300 (21)	1/2	100 (30)	Model 1	1	1/2	-20º-180º F (-28º-82º C)
		24P330	24P331	24P332	300 (21)	3/4	75 (23)		1	3/4	
		24P333	24P334	24P335	300 (21)	3/4	100 (30)		1	3/4	
		24P336	24P337	24P338	300 (21)	1	50 (15)		1	1	
	XD 50	24P470	24P471	24P472	300 (21)	1	75 (23)	Model 3	1	1	
		24P473	24P474	24P475	300 (21)	1	100 (30)		1	1	
Oil	XD 40	24P339	24P340	24P341	2000 (138)	1/2	100 (30)	Model 2	1	1/2	-40º-180º F (-40º-82º C)
		24P342*	24P343*	24P344*	1500 (103)	3/4	75 (23)	Model 1	1	3/4	
		24R857**	24R859**	24R860**	1500 (103)	3/4	75 (23)	Model 2	1	3/4	
		24P345	24P346	24P347	1500 (103)	3/4	100 (30)		1	3/4	
		24P348*	24P349*	24P350*	1275 (88)	1	50 (15)	Model 1	1	1	
		24R861**	24R862**	24R863**	1275 (88)	1	50 (15)	Model 2	1	1	
	XD 50	24P476	24P477	24P478	1275 (88)	1	75 (23)	Model 3	1	1	
Waste Oil Evacuation	XD 40	24P351	24P352	24P353	250 (17)	1	50 (15)	Model 1	1	1	
	XD 50	24P479†	24P480†	24P481†	200 (14)	1 1/4	35 (11)	Model 4	1 1/2†	1 1/4	
		24P482†	24P483†	24P484†	200 (14)	1 1/4	50 (15)		1 1/2†	1 1/4	
Diesel Fuel	XD 40	24P354	24P355	24P356	250 (17)	1	50 (15)	Model 1	1	1	
	XD 50	24P485	24P486	24P487	250 (17)	1	75 (23)	Model 3	1	1	
		24P488	24P489	24P490	250 (17)	1	100 (30)		1	1	
		24P491†	24P492†	24P493†	250 (17)	1 1/4	35 (11)	Model 4	1 1/2†	1 1/4	
		24P494†	24P495†	24P496†	250 (17)	1 1/4	50 (15)		1 1/2†	1 1/4	
		24P497†	24P498†	24P499†	150 (10)	1 1/2	50 (15)		1 1/2†	1 1/2	

*Truck/bench mount only. **Overhead or truck mount. †Standard 2" Victaulic††-style groove on inlet. ††Victaulic is a trademark of Victaulic Company of America.
See manual 3A2990 on graco.com for more dimensional information.

Accessories

Inlet Hose Kits		Pressure psi (bar)	Hose id in (mm)	Length in (mm)	Hose Inlet
24R111	Inlet kit for Air/Water and Oil	1275 (88)	1 (25)	28 (711)	npt(m)
24R112	Inlet kit for Waste Oil Evacuation	250 (17)	1 (25)	28 (711)	npt(m)
24R115	Inlet kit for Diesel Fuel	250 (17)	1 (25)	28 (711)	npt(m)
24R117	Inlet kit for Diesel Fuel	150 (10)	1.5 (38)	28 (711)	npt(m)
Ball Stop Kits					
237873	Ball stop kit used for 3/4 in (19.1 mm) hose				
237874	Ball stop kit used for 1 in (25.4 mm) hose				
24R060	Ball stop kit used for a 1.25 in (31.75 mm) hose				
24R061	Ball stop kit used for a 1.5 in (38.1 mm) hose				
Arm Kits and Roller Guides					
24R076	Support Arm Kit for XD 40				
24R077	Support Arm Kit for XD 50				
24R072	Roller Guide Kit with Bracket for XD 40				
24R074	Roller Guide Kit with Bracket for XD 50				
237932	Overhead mounting kit for XD 40. Includes all parts needed for ceiling mounting 1 reel				



XD 40™ and XD 50™ Hose Reels

Hose Reels and Packages

Bare Reel Ordering Information

Technical Specifications

Applications		Model numbers by color			Pressure psi (bar)	Hose Length Capacity		Dimension "F"	Connection Size		Operating Temperature
		Blue	Yellow	White		id in	Length ft (m)		Inlet npt (f)	Outlet npt (f)	
Air/Water/ Anti-Freeze	XD 40	24P313	24P315	24P316	600 (41)	1/2	100 (30)	Model 1	1	1	-40º–180º F (-40º–82º C)
						3/4	75 (23)				
						1	50 (15)				
		24P317	24P318	24P319		3/4	100 (30)				
	XD 50	24P455	24P456	24P457		1	75 (23)	Model 3			
						1	100 (30)	Model 3			
Oil	XD 40	24P320*	24P322*	24P323*	2000 (138)	1	50 (15)	Model 1	1	1	
						3/4	75 (23)				
		24R854**	24R855**	24R856**		1	50 (15)	Model 2			
						3/4	75 (23)				
		24P324	24P325	24P326		1/2	100 (30)				
						3/4	100 (30)				
	XD 50	24P458	24P459	24P460		1	75 (23)	Model 3	1	1	
Waste Oil Evacuation	XD 40	24P317	24P318	24P319	600 (41)	1	50 (15)	Model 1	1	1	
	XD 50	24P461†	24P462†	24P463†		1 1/4	35 (11)	Model 4	1 1/2†	1 1/2	
							50 (15)				
Diesel Fuel	XD 40	24P317	24P318	24P319	600 (41)	1	50 (15)	Model 1	1	1	
	XD 50	24P455	24P456	24P457		1	100 (30)	Model 3	1	1	
		24P461†	24P462†	24P463†		1 1/4	35 (11)	Model 4	1 1/2†	1 1/2	
							50 (15)				
		24P464	24P465	24P466		1	75 (23)	Model 3	1	1	
		24P467†	24P468†	24P469†		1 1/2	50 (15)	Model 4	1 1/2†	1 1/2	

*Truck/bench mount only. **Overhead or truck mount. †Standard 2" Victaulic††-style groove on inlet. ††Victaulic is a trademark of Victaulic Company of America.
See manual 3A2990 on graco.com for more dimensional information.

Accessories

Inlet Hose Kits		Pressure psi (bar)	Hose id in (mm)	Length in (mm)	Hose Inlet
24R111	Inlet kit for Air/Water and Oil	1275 (88)	1 (25)	28 (711)	npt(m)
24R112	Inlet kit for Waste Oil Evacuation	250 (17)	1 (25)	28 (711)	npt(m)
24R115	Inlet kit for Diesel Fuel	250 (17)	1 (25)	28 (711)	npt(m)
24R117	Inlet kit for Diesel Fuel	150 (10)	1.5 (38)	28 (711)	npt(m)
Ball Stop Kits					
237873	Ball stop kit used for 3/4 in (19.1 mm) hose				
237874	Ball stop kit used for 1 in (25.4 mm) hose				
24R060	Ball stop kit used for a 1.25 in (31.75 mm) hose				
24R061	Ball stop kit used for a 1.5 in (38.1 mm) hose				
Mounting Kits, Arms and Roller Guides					
24R076	Support Arm Kit for XD 40				
24R077	Support Arm Kit for XD 50				
24R072	Roller Guide Kit with Bracket for XD 40				
24R074	Roller Guide Kit with Bracket for XD 50				
237932	Overhead mounting kit for XD 40. Includes all parts needed for ceiling mounting 1 reel				

XD 60™, XD 70™ and XD 80™ Motor Driven Hose Reels

Hose Reels and Packages

Features and Benefits

Choose from multiple frame and motor combinations–mix and match to make quick work of configuring the reel for your application. Reels can easily be configured for left or right inlet orientation by switching the outlet direction and motor rotation to suit your needs. Order reels assembled, or choose frames and motor modules to maximize uptime for on-site installations.

- Drive unit is clean and lubricated for life, so there's no need to worry about greasy, exposed drive chains that need maintenance and can be dangerous to operators
- A Graco exclusive–breakthrough swivel design allows better flow to get work done faster
- Materials are corrosion resistant and strong for long lasting performance
- Direct drive hydraulic, and enclosed gear drive pneumatic and electric with 12, 24, 115, and 230 VAC motor options
- Electric motors are UL listed for use in hazardous locations
- 600 psi (41 bar) low pressure and 3,000 psi (207 bar) medium pressure models
- Operating temperature range of -40 to 180º F (-40 to 82º C)*
- Adjustable band clamp brake used to slow and stop reel
- Optional roller guides and arms available as accessories

Not all options available in every configuration. Please see ordering guide for available sizes.
**Grease reels are rated for 0º to 180º F (-18 to 82º C)*

Typical Fluids

- Air
- Water
- Petroleum- and sythetic-based oils
- Grease
- Diesel fuel
- Waste oil evacuation
- Anti-freeze

Top Quality Solutions for:

- Mining operations
- Oil and gas industry
- Heavy-duty construction
- Agriculture
- Sewer and waste water
- Transportation

XD 60

Hose Capacity	Up to ½ in x 100 ft, ¾ in x 100 ft, 1 in x 50 ft
Swivel Size	1 inch npt inlet and outlet

XD 70

Hose Capacity	Up to 1 in x 100 ft, 1.5 in x 65 ft, 2 in x 33 ft
Swivel Size	1, 1.5 or 2 inch npt inlet and outlet

*1.5" models include 2" Victaulic**-style groove on inlet*

XD 80

Hose Capacity	Up to 1 in x 150 ft, 1.5 in x 100 ft, 2 in x 50 ft
Swivel Size	1, 1.5 or 2 inch npt inlet and outlet

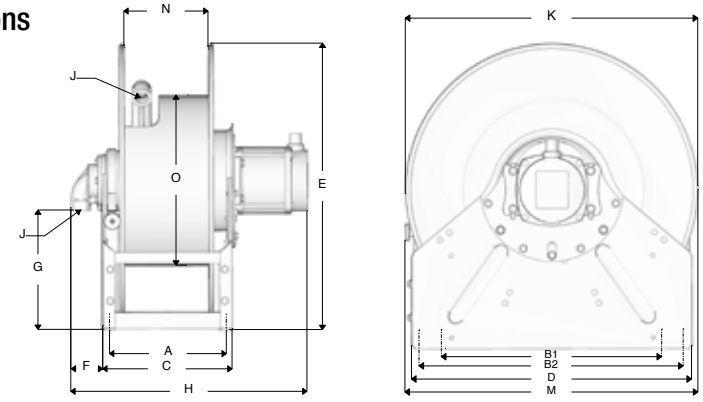
*1.5" models include 2" Victaulic**-style groove on inlet*

** Victaulic is a trademark of Victaulic Company of America

XD 60™, XD 70™ and XD 80™ Motor Driven Hose Reels

Hose Reels and Packages

Dimensions



Model	Power Source	A	B1	B2	C	D	E	F	G	H	J	K	M	N	O	P
		(inches)														
XD6010	Pneumatic	10.45	22.25	na	11.8	24.0	26.1	2.8	10.9	20.4	1" npt	25.0	26.0	7.8	15.5	0.437
XD6010	Hydraulic	10.45	22.25	na	11.8	24.0	26.1	2.8	10.9	15.7	1" npt	25.0	26.0	7.8	15.5	0.437
XD6010	Electric	10.45	22.25	na	11.8	24.0	26.1	2.8	10.9	21.6	1" npt	25.0	26.0	7.8	15.5	0.437
XD7010	Pneumatic	12.95	22.25	na	14.3	24.0	26.1	2.8	10.9	22.9	1" npt	25.0	26.0	10.0	10.0	0.437
XD7010	Hydraulic	12.95	22.25	na	14.3	24.0	26.1	2.8	10.9	18.2	1" npt	25.0	26.0	10.0	10.0	0.437
XD7010	Electric	12.95	22.25	na	14.3	24.0	26.1	2.8	10.9	24.1	1" npt	25.0	26.0	10.0	10.0	0.437
XD7015	Pneumatic	12.95	22.25	na	14.3	24.0	26.1	3.6	10.9	23.7	1.5" npt	25.0	26.0	10.0	10.0	0.437
XD7015	Hydraulic	12.95	22.25	na	14.3	24.0	26.1	3.6	10.9	19.0	1.5" npt	25.0	26.0	10.0	10.0	0.437
XD7015	Electric	12.95	22.25	na	14.3	24.0	26.1	3.6	10.9	24.8	1.5" npt	25.0	26.0	10.0	10.0	0.437
XD7020	Pneumatic	12.95	22.25	na	14.3	24.0	26.1	4.0	10.2	24.1	2" npt	25.0	26.0	10.0	10.0	0.437
XD7020	Hydraulic	12.95	22.25	na	14.3	24.0	26.1	4.0	10.2	19.4	2" npt	25.0	26.0	10.0	10.0	0.437
XD7020	Electric	12.95	22.25	na	14.3	24.0	26.1	4.0	10.2	25.2	2" npt	25.0	26.0	10.0	10.0	0.437
XD8010	Pneumatic	20.68	22.25	26.73	22.1	28.5	30.1	2.8	13.4	30.7	1" npt	28.0	30.4	18.0	15.5	0.437
XD8010	Hydraulic	20.68	22.25	26.73	22.1	28.5	30.1	2.8	13.4	26.0	1" npt	28.0	30.4	18.0	15.5	0.437
XD8010	Electric	20.68	22.25	26.73	22.1	28.5	30.1	2.8	13.4	31.8	1" npt	28.0	30.4	18.0	15.5	0.437
XD8015	Pneumatic	20.68	22.25	26.73	22.1	28.5	30.1	3.6	13.4	31.4	1.5" npt	28.0	30.4	18.0	15.5	0.437
XD8015	Hydraulic	20.68	22.25	26.73	22.1	28.5	30.1	3.6	13.4	26.7	1.5" npt	28.0	30.4	18.0	15.5	0.437
XD8015	Electric	20.68	22.25	26.73	22.1	28.5	30.1	3.6	13.4	32.5	1.5" npt	28.0	30.4	18.0	15.5	0.437
XD8020	Pneumatic	20.68	22.25	26.73	22.1	28.5	30.1	4.0	12.7	31.9	2" npt	28.0	30.4	18.0	15.5	0.437
XD8020	Hydraulic	20.68	22.25	26.73	22.1	28.5	30.1	4.0	12.7	27.1	2" npt	28.0	30.4	18.0	15.5	0.437
XD8020	Electric	20.68	22.25	26.73	22.1	28.5	30.1	4.0	12.7	33.0	2" npt	28.0	30.4	18.0	15.5	0.437
		(mm)														
XD6010	Pneumatic	265	565	na	300	610	663	71	277	519	1" npt	635	660	198	394	11
XD6010	Hydraulic	265	565	na	300	610	663	71	277	400	1" npt	635	660	198	394	11
XD6010	Electric	265	565	na	300	610	663	71	277	547	1" npt	635	660	198	394	11
XD7010	Pneumatic	329	565	na	363	610	663	71	277	583	1" npt	635	660	254	254	11
XD7010	Hydraulic	329	565	na	363	610	663	71	277	463	1" npt	635	660	254	254	11
XD7010	Electric	329	565	na	363	610	663	71	277	611	1" npt	635	660	254	254	11
XD7015	Pneumatic	329	565	na	363	610	663	91	277	603	1.5" npt	635	660	254	254	11
XD7015	Hydraulic	329	565	na	363	610	663	91	277	483	1.5" npt	635	660	254	254	11
XD7015	Electric	329	565	na	363	610	663	91	277	631	1.5" npt	635	660	254	254	11
XD7020	Pneumatic	329	565	na	363	610	663	102	259	613	2" npt	635	660	254	254	11
XD7020	Hydraulic	329	565	na	363	610	663	102	259	493	2" npt	635	660	254	254	11
XD7020	Electric	329	565	na	363	610	663	102	259	641	2" npt	635	660	254	254	11
XD8010	Pneumatic	525	565	679	561	724	765	71	340	779	1" npt	711	772	457	394	11
XD8010	Hydraulic	525	565	679	561	724	765	71	340	659	1" npt	711	772	457	394	11
XD8010	Electric	525	565	679	561	724	765	71	340	807	1" npt	711	772	457	394	11
XD8015	Pneumatic	525	565	679	561	724	765	91	340	799	1.5" npt	711	772	457	394	11
XD8015	Hydraulic	525	565	679	561	724	765	91	340	679	1.5" npt	711	772	457	394	11
XD8015	Electric	525	565	679	561	724	765	91	340	827	1.5" npt	711	772	457	394	11
XD8020	Pneumatic	525	565	679	561	724	765	102	323	809	2" npt	711	772	457	394	11
XD8020	Hydraulic	525	565	679	561	724	765	102	323	689	2" npt	711	772	457	394	11
XD8020	Electric	525	565	679	561	724	765	102	323	837	2" npt	711	772	457	394	11

XD 60™, XD 70™ and XD 80™ Motor Driven Hose Reels

Hose Reels and Packages

Hose Reel Ordering Information

Technical Specifications

Applications		Model numbers by color			Description	Weight lbs (kg)	Pressure psi (bar)	Recommended Hose Capacity Hose Diameter x Length ft (m)			Inlet/Outlet Size npt (f)
		Blue	Yellow	White							
Air/Water/ Anti-Freeze	XD 60	24R419	24R420	24R421	XD6010, Pneumatic Motor	123 (56)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	1 in/1 in
		24R414	24R415	24R416	XD6010, Hydraulic Motor	101 (45)	600 (41)	1/2"x100'(30)	3/4"x100' (30)	1'x50" (15)	
		24R404	24R405	24R406	XD6010, 12 VDC Electric Motor, 1/2 HP	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R407	24R408	24R409	XD6010, 24 VDC Electric Motor, 1/2 HP	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R410	24R412	24R413	XD6010, 115 VAC Electric Motor	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24T207	24T208	24T209	XD6010, 230 VAC Electric Motor	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
	XD 70	24R449	24R450	24R451	XD7010, Pneumatic Motor	122 (55)	600 (41)	1"x75' (23)	1"x100' (30)		1 in/1 in
		24R446	24R447	24R448	XD7010, Hydraulic Motor	100 (45)	600 (41)	1"x75' (23)	1"x100' (30)		
		24R437	24R438	24R439	XD7010, 12 VDC Electric Motor, 1/2 HP	132 (60)	600 (41)	1"x75' (23)	1"x100' (30)		
		24R440	24R441	24R442	XD7010, 24 VDC Electric Motor, 1/2 HP	132 (60)	600 (41)	1"x75' (23)	1"x100' (30)		
		24R443	24R444	24R445	XD7010, 115 VAC Electric Motor	132 (60)	600 (41)	1"x75' (23)	1"x100' (50)		
		24T213	24T215	24T216	XD7010, 230 VAC Electric Motor	132 (60)	600 (41)	1"x75' (23)	1"x100' (30)		
	XD 80	24R531	24R532	24R533	XD8010, Pneumatic Motor	164 (74)	600 (41)	1"x150' (46)			1 in/1 in
		24R528	24R529	24R530	XD8010, Hydraulic Motor	142 (64)	600 (41)	1"x150' (46)			
		24R519	24R520	24R521	XD8010, 12 VDC Electric Motor, 1/2 HP	173 (78)	600 (41)	1"x150' (46)			
		24R522	24R523	24R524	XD8010, 24 VDC Electric Motor, 1/2 HP	173 (78)	600 (41)	1"x150' (46)			
		24R525	24R526	24R527	XD8010, 115 VAC Electric Motor	173 (78)	600 (41)	1"x150' (46)			
		24T227	24T228	24T229	XD8010, 230 VAC Electric Motor	173 (78)	600 (41)	1"x150' (46)			
Oil	XD 60	24R434	24R435	24R436	XD6010, Pneumatic Motor	125 (56)	3000 (207)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	1 in/1 in
		24R431	24R432	24R433	XD6010, Hydraulic Motor	103 (47)	3000 (207)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R422	24R423	24R424	XD6010, 12 VDC Electric Motor, 1/2 HP	134 (61)	3000 (207)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R425	24R426	24R427	XD6010, 24 VDC Electric Motor, 1/2 HP	134 (61)	3000 (207)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R428	24R429	24R430	XD6010, 115 VAC Electric Motor	134 (61)	3000 (207)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24T210	24T211	24T212	XD6010, 230 VAC Electric Motor	134 (61)	3000 (207)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	

XD 60™, XD 70™ and XD 80™ Motor Driven Hose Reels

Hose Reels and Packages

Hose Reel Ordering Information

Technical Specifications

Applications		Model numbers by color			Description	Weight	Pressure psi (bar)	Recommended Hose Capacity Hose Diameter x Length ft (m)			Inlet/Outlet Size npt (f)
		Blue	Yellow	White							
Oil	XD 70	24R464	24R465	24R466	XD7010 Pneumatic Motor	100 (56)	3000 (207)	1"x75' (23)	1"x100' (30)		1 in/1 in
		24R461	24R462	24R463	XD7010 Hydraulic Motor	102 (46)	3000 (207)	1"x75' (23)	1"x100' (30)		
		24R452	24R453	24R454	XD7010 12 VDC Elec. Motor, 1/2 HP	133 (60)	3000 (207)	1"x75' (23)	1"x100' (30)		
		24R455	24R456	24R457	XD7010 24 VDC Elec. Motor, 1/2 HP	133 (60)	3000 (207)	1"x75' (23)	1"x100' (30)		
		24R458	24R459	24R460	XD7010 115 VAC Electric Motor	133 (60)	3000 (207)	1"x75' (23)	1"x100' (30)		
		24T218	24T219	24T220	XD7010 230 VAC Electric Motor	133 (60)	3000 (207)	1"x75' (23)	1"x100' (30)		
	XD 80	24R546	24R547	24R548	XD8010 Pneumatic Motor	165 (75)	3000 (207)	1"x150' (46)			1 in/1 in
		24R543	24R544	24R545	XD8010 Hydraulic Motor	143 (65)	3000 (207)	1"x150' (46)			
		24R534	24R535	24R536	XD8010 12 VDC Elec. Motor, 1/2 HP	175 (79)	3000 (207)	1"x150' (46)			
		24R537	24R538	24R539	XD8010 24 VDC Elec Motor, 1/2 HP	175 (79)	3000 (207)	1"x150' (46)			
		24R540	24R541	24R542	XD8010 115 VAC Electric Motor	175 (79)	3000 (207)	1"x150' (46)			
		24T230	24T231	24T232	XD8010 230 VAC Electric Motor	175 (79)	3000 (207)	1"x150' (46)			
Waste Oil Evac.	XD 60	24R419	24R420	24R421	XD6010 Pneumatic Motor	123 (56)	600 (41)	1'x50" (15)			1 in/1 in
		24R414	24R415	24R416	XD6010 Hydraulic Motor	101 (45)	600 (41)	1'x50" (15)			
		24R404	24R405	24R406	XD6010 12 VDC Elec. Motor, 1/2 HP	133 (60)	600 (41)	1'x50" (15)			
		24R407	24R408	24R409	XD6010 24 VDC Elec Motor, 1/2 HP	133 (60)	600 (41)	1'x50" (15)			
		24R410	24R412	24R413	XD6010 115 VAC Electric Motor	133 (60)	600 (41)	1'x50" (15)			
		24T207	24T208	24T209	XD6010 230 VAC Electric Motor	133 (60)	600 (41)	1'x50" (15)			
	XD 70	24R516*	24R517*	24R518*	XD7015, Pneumatic Motor	100 (56)	600 (41)	1.25"x35' (10.5)	1.25"x50' (15)	1.5"x50' (15)	1.5 in/1.5 in*
		24R512*	24R513*	24R515*	XD7015 Hydraulic Motor	102 (46)	600 (41)	1.25"x35' (10.5)	1.25"x50' (15)	1.5"x50' (15)	
		24R503*	24R504*	24R505*	XD7015 12 VDC Elec. Motor, 1/2 HP	133 (60)	600 (41)	1.25"x35' (10.5)	1.25"x50' (15)	1.5"x50' (15)	
		24R506*	24R507*	24R508*	XD7015 24 VDC Elec. Motor, 1/2 HP	133 (60)	600 (41)	1.25"x35' (10.5)	1.25"x50' (15)	1.5"x50' (15)	
		24R509*	24R510*	24R511*	XD7015 115 VAC Electric Motor	133 (60)	600 (41)	1.25"x35' (10.5)	1.25"x50' (15)	1.5"x50' (15)	
		24T221*	24T222*	24T223*	XD7015 230 VAC Electric Motor	133 (60)	600 (41)	1.25"x35' (10.5)	1.25"x50' (15)	1.5"x50' (15)	

*Standard 2" Victaulic**-style groove on inlet. **Victaulic is a trademark of Victaulic Company of America.

XD 60™, XD 70™ and XD 80™ Motor Driven Hose Reels

Hose Reels and Packages

Hose Reel Ordering Information / Technical Specifications

Applications		Model numbers by color			Description	Weight	Pressure psi (bar)	Recommended Hose Capacity Hose Diameter x Length ft (m)			Inlet/Outlet Size npt (f)
		Blue	Yellow	White							
Diesel Fuel	XD 60	24R419	24R420	24R421	XD6010 Pneumatic Motor	123 (56)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	1 in/1 in
		24R414	24R415	24R416	XD6010 Hydraulic Motor	101 (45)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R404	24R405	24R406	XD6010 12 VDC Electric Motor, 1/2 HP	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R407	24R408	24R409	XD6010 24 VDC Electric Motor, 1/2 HP	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24R410	24R412	24R413	XD6010 115 VAC Electric Motor	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
		24T207	24T208	24T209	XD 6010 230 VAC Electric Motor	133 (60)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	
	XD 70	24R449	24R450	24R451	XD7010 Pneumatic Motor	122 (55)	600 (41)	1"x75' (23)	1"x100' (30)		1 in/1 in
		24R446	24R447	24R448	XD7010 Hydraulic Motor	100 (45)	600 (41)	1"x75' (23)	1"x100' (30)		
		24R437	24R438	24R439	XD7010 12 VDC Electric Motor, 1/2 HP	132 (60)	600 (41)	1"x75' (23)	1"x100' (30)		
		24R440	24R441	24R442	XD7010 24 VDC Electric Motor, 1/2 HP	132 (60)	600 (41)	1"x75' (23)	1"x100' (30)		
		24R443	24R444	24R445	XD7010 115 VAC Electric Motor	132 (60)	600 (41)	1"x75' (23)	1"x100' (30)		
		24T213	24T215	24T216	XD7010 230 VAC Electric Motor	132 (60)	600 (41)	1"x75' (23)	1"x100' (30)		
	XD 70	24R516*	24R517*	24R518*	XD7015 Pneumatic Motor	100 (56)	600 (41)	1.25"x50' (15)	1.5"x50' (15)	1.5"x65' (20)	1.5 in/1.5 in*
		24R512*	24R513*	24R515*	XD7015 Hydraulic Motor	102 (46)	600 (41)	1.25"x50' (15)	1.5"x50' (15)	1.5"x65' (20)	
		24R503*	24R504*	24R505*	XD7015 12 VDC Electric Motor, 1/2 HP	133 (60)	600 (41)	1.25"x50' (15)	1.5"x50' (15)	1.5"x65' (20)	
		24R506*	24R507*	24R508*	XD7015 24 VDC Electric Motor, 1/2 HP	133 (60)	600 (41)	1.25"x50' (15)	1.5"x50' (15)	1.5"x65' (20)	
		24R509*	24R510*	24R511*	XD7015 115 VAC Electric Motor	133 (60)	600 (41)	1.25"x50' (15)	1.5"x50' (15)	1.5"x65' (20)	
		24T221*	24T222*	24T223*	XD7015 230 VAC Electric Motor	133 (60)	600 (41)	1.25"x50' (15)	1.5"x50' (15)	1.5"x65' (20)	
	XD 70	24T023	24T024	24T025	XD7020 Pneumatic Motor	128 (58)	600 (41)	2"x33' (10)			2 in/2 in
		24T020	24T021	24T022	XD7020 Hydraulic Motor	106 (48)	600 (41)	2"x33' (10)			
		24T011	24T012	24T013	XD7020 12 VDC Electric Motor, 1/2 HP	137 (62)	600 (41)	2"x33' (10)			
		24T014	24T015	24T016	XD7020 24 VDC Electric Motor, 1/2 HP	137 (62)	600 (41)	2"x33' (10)			
		24T017	24T018	24T019	XD7020 115 VAC Electric Motor	137 (62)	600 (41)	2"x33' (10)			
		24T224	24T225	24T226	XD7020 230 VAC Electric Motor	137 (62)	600 (41)	2"x33' (10)			
	XD 80	24R531	24R532	24R533	XD8010 Pneumatic Motor	164 (74)	600 (41)	1"x150' (46)			1 in/1 in
		24R528	24R529	24R530	XD8010 Hydraulic Motor	142 (64)	600 (41)	1"x150' (46)			
		24R519	24R520	24R521	XD8010 12 VDC Electric Motor, 1/2 HP	173 (78)	600 (41)	1"x150' (46)			
		24R522	24R523	24R524	XD8010 24 VDC Elec., Motor, 1/2 HP	173 (78)	600 (41)	1"x150' (46)			
		24R525	24R526	24R527	XD8010 115 VAC Electric, Motor	173 (78)	600 (41)	1"x150' (46)			
		24T227	24T228	24T229	XD8010 230 VAC Electric, Motor	173 (78)	600 (41)	1"x150' (46)			

*Standard 2" Victaulic**-style groove on inlet. **Victaulic is a trademark of Victaulic Company of America.

XD 60™, XD 70™ and XD 80™ Motor Driven Hose Reels

Hose Reels and Packages

Hose Reel Ordering Information

Technical Specifications

Applications		Model numbers by color			Description	Weight	Pressure psi (bar)	Recommended Hose Capacity Hose Diameter x Length ft (m)			Inlet/Outlet Size npt (f)
		Blue	Yellow	White							
Diesel Fuel/ Anti-Freeze	XD 80	24R561*	24R562*	24R563*	XD8015 Pneumatic Motor	165 (75)	600 (41)	1.5"x75' (23)	1.5"x100' (50)		1.5 in/1.5 in*
		24R558*	24R559*	24R560*	XD8015 Hydraulic Motor	143 (65)	600 (41)	1.5"x75' (23)	1.5"x100' (50)		
		24R549*	24R550*	24R551*	XD8015 12 VAC Electric Motor, 1/2 HP	175 (79)	600 (41)	1.5"x75' (23)	1.5"x100' (50)		
		24R552*	24R553*	24R554*	XD8015 24 VAC Electric Motor, 1/2 HP	175 (79)	600 (41)	1.5"x75' (23)	1.5"x100' (50)		
		24R555*	24R556*	24R557*	XD8015 115 VAC Electric Motor	175 (79)	600 (41)	1.5"x75' (23)	1.5"x100' (50)		
		24T233*	24T234*	24T235*	XD8015 230 VAC Electric Motor	175 (79)	600 (41)	1.5"x75' (23)	1.5"x100' (50)		
	XD 80	24R576	24R577	24R578	XD8020 Pneumatic Motor	169 (76)	600 (41)	2"x50' (15)			2 in/2 in
		24R573	24R574	24R575	XD8020 Hydraulic Motor	147 (67)	600 (41)	2"x50' (15)			
		24R564	24R565	24R566	XD8020 12 VDC Electric Motor, 1/2 HP	179 (81)	600 (41)	2"x50' (15)			
		24R567	24R568	24R569	XD8020 24 VDC Electric Motor, 1/2 HP	179 (81)	600 (41)	2"x50' (15)			
		24R570	24R571	24R572	XD8020 115 VAC Electric Motor	179 (81)	600 (41)	2"x50' (15)			
		24T236	24T237	24T238	XD8020 230 VAC Electric Motor	179 (81)	600 (41)	2"x50' (15)			
Grease- Bulk Transfer	XD 60	24R434	24R435	24R436	XD6010 Pneumatic Motor	125 (75)	3000 (207)	1'x50" (15)			1 in/1 in
		24R431	24R432	24R433	XD6010 Hydraulic Motor	103 (47)	3000 (207)	1'x50" (15)			
		24R422	24R423	24R424	XD6010 12 VDC Electric Motor, 1/2 HP	134 (61)	3000 (207)	1'x50" (15)			
		24R425	24R426	24R427	XD6010 24 VDC Electric Motor, 1/2 HP	134 (61)	3000 (207)	1'x50" (15)			
		24R428	24R429	24R430	XD6010 115 VAC Electric Motor	134 (61)	3000 (207)	1'x50" (15)			
		24T210	24T211	24T212	XD6010 230 VAC Electric Motor	134 (61)	3000 (207)	1'x50" (15)			

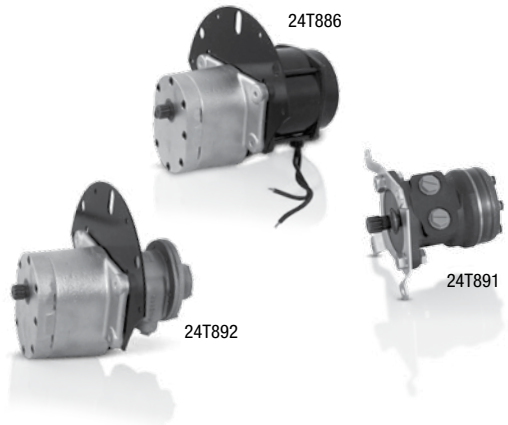
Operating temperature for grease reels is 0º F to 180º F (-18º to 82º C), all others are -40º F to 180º F (-40º to 82º C).
*Standard 2" Victaulic**-style groove on inlet. **Victaulic is a trademark of Victaulic Company of America.

Modular Component Ordering Information

Reel Frames Only (Pair with Motor Assemblies)											
Air/Water, Diesel Fuel	XD 60	24T104	24T105	24T106	XD6010 Bare Reel, No Motor	87 (39)	600 (41)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	1 in/1 in
	XD 70	24T110	24T111	24T112	XD7010 Bare Reel, No Motor	86 (39)	600 (41)	1"x75' (23)	1"x100' (30)		
	XD 80	24T122	24T123	24T124	XD8010, Bare Reel, No Motor	127 (58)	600 (41)	1"x150' (46)			
Diesel Fuel	XD 70	24T116	24T117	24T118	XD7015, Bare Reel, No Motor	87 (39)	600 (41)	1.25"x50' (15)	1.5"x50' (15)	1.5"x65' (20)	1.5 in/1.5 in†
	XD 70	24T119	24T120	24T121	XD7020, Bare Reel, No Motor	91 (41)	600 (41)	2"x33' (10)			2 in/2 in
	XD 80	24T128	24T129	24T130	XD8015 Bare Reel, No Motor	129 (58)	600 (41)	1.5"x75' (23)	1.5"x100' (30)		1.5 in/1.5 in†
	XD 80	24T131	24T132	24T133	XD8020 Bare Reel, No Motor	133 (60)	600 (41)	2"x50' (15)			2 in/2 in
Waste Oil Evac	XD 60	24T104	24T105	24T106	XD6010 Bare Reel, No Motor	87 (39)	600 (41)	1'x50" (15)			1 in/1 in
	XD 70	24T116	24T117	24T118	XD7015, Bare Reel, No Motor	87 (39)	600 (41)	1.25"x50' (15)	1.5"x50' (15)		1.5 in/1.5 in†
Oil	XD 60	24T107	24T108	24T109	XD6010, Bare Reel, No Motor	88 (40)	3000 (207)	1/2"x100' (30)	3/4"x100' (30)	1'x50" (15)	1 in/1 in
	XD 70	24T113	24T114	24T115	XD7010, Bare Reel, No Motor	87 (39)	3000 (207)	1"x75' (23)	1"x100' (30)		
	XD 80	24T125	24T126	24T127	XD8010, Bare Reel, No Motor	129 (58)	3000 (207)	1"x150' (46)			

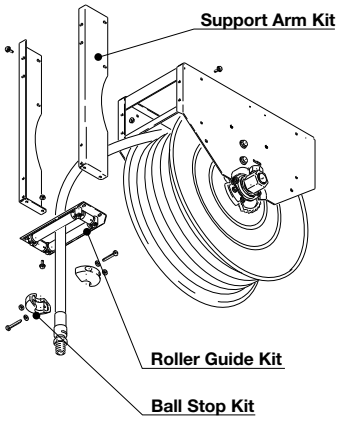
Operating temperature for grease reels is 0º F to 180º F (-18º to 82º C), all others are -40º F to 180º F (-40º to 82º C).
†Inlet on modular reels do not come standard with Victaulic**-style groove. **Victaulic is a trademark of Victaulic Company of America.

Motor Assemblies (Pair with Frame Only Models)	
24T889	115 VAC, 0.40 HP, motor assembly, reversible type. For installing motor to bare XD frame
24T886	12 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame
24T910	12 VDC, 2/3 HP motor assembly, reversible type. For installing motor to bare XD frame
24T888	24 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame
24T911	24 VDC, 2/3 HP motor assembly, reversible type. For installing motor to bare XD frame
24T891	Hydraulic motor assembly, reversible type. For installing motor to bare XD reel
24T892	Pneumatic motor assembly, reversible type. For installing motor to bare XD reel
24T890	230 VAC, 1/2 HP, motor assembly, reversible type. For installing motor to bare XD frame



Accessories

Inlet Hose Kits		Pressure psi (bar)	Hose I.D. in (mm)	Length in (mm)	Hose Inlet
24R111	Inlet kit for air/water and oil	1275 (88)	1 (25)	28 (711)	1 in npt(m)
24R112	Inlet kit for waste oil evacuation	250 (17)	1 (25)	28 (711)	1 in npt(m)
24R115	Inlet kit for diesel fuel	250 (17)	1 (25)	28 (711)	1 in npt(m)
24R117	Inlet kit for diesel fuel	150 (10)	1.5 (38)	28 (711)	1.5 in npt(m)
24R118	Inlet kit for diesel fuel	150 (10)	2 (51)	28 (711)	2 in npt(m)
Ball Stop Kits					
237873	Ball stop kit used for 3/4 in (19.1 mm) hose				
237874	Ball stop kit used for 1 in (25.4 mm) hose				
24R060	Ball stop kit used for 1.25 in (31.75 mm) hose				
24R061	Ball stop kit used for 1.5 in (38.1 mm) hose				
Arm Kits and Hose Guides					
24T327	Stainless Steel Hose Guide for XD 60				
24T328	Stainless Steel Hose Guide for XD 70				
24T329	Stainless Steel Hose Guide for XD 80				
24R072	Roller Guide Kit with Bracket for XD 40 and XD 60				
24T330	Roller Guide Kit with Bracket for XD 70				
24T331	Roller Guide Kit with Bracket for XD 80				
24T332	Arm Kit with Stainless Steel Hose Guide for XD 60				
24T333	Arm Kit with Stainless Steel Hose Guide for XD 70				
24T334	Arm Kit with Stainless Steel Hose Guide for XD 80				
24T335	Arm Kit with Roller Guide for XD 60				
24T336	Arm Kit with Roller Guide for XD 70				
24T337	Arm Kit with Roller Guide for XD 80				
Controls					
24T875	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 12 VDC. Three position, four-way valve				
24T876	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 24 VDC. Three position, four-way valve				
127224	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 12V, includes switch. Three position, four-way valve				
127225	Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 24V includes switch. Three position, four-way valve				
127271	Pneumatic valve to control XD 60/70/80 pneumatic powered hose reels. Two position, three-way valve				
127214	Momentary Push-Button On/Off switch with red rubber cap. Use for 12 or 24 VDC				
127217	Hazardous location push button On/Off switch. Use for 12 and 24 VDC				
127223	Hazardous location push button On/Off switch. Use for 115 and 220 VAC				
127218	Hazardous location junction box				
127219	12 VDC intermittent duty solenoid recommended for activating rewind on 12 VDC motor				
127220	24 VDC intermittent duty solenoid recommended for activating rewind on 24 VDC motor				
127221	Manual reset push button circuit breaker, 50 amp rating				
127222	Manual reset push button circuit breaker, 25 amp rating				



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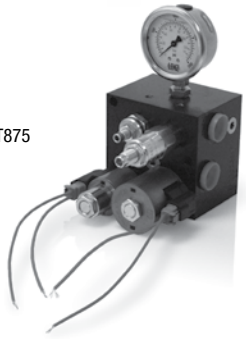
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XD 60™, XD 70™ and XD 80™ Motor Driven Hose Reels

Hose Reels and Packages

Hoses			Pressure	Hose I.D. in (mm)
Diesel Fuel	24R102	1" x 50 ft (15 m) coupled fuel hose	250 psi (17)	1 (25)
	24R103	1" x 75 ft (23 m) coupled fuel hose	250 psi (17)	1 (25)
	24R106	1" x 100 ft (30 m) coupled fuel hose	250 psi (17)	1 (25)
	24T252	1" x 150 ft (46 m) coupled fuel hose	250 psi (17)	1 (25)
	24R108	1.25" x 35 ft (10.5 m) coupled fuel hose	250 psi (17)	1.25 (31.75)
	24R110	1.25" x 50 ft (15 m) coupled fuel hose	250 psi (17)	1.25 (31.75)
	24R114	1.5" x 50 ft (15 m) coupled fuel hose	150 psi (11)	1.5 (38)
	24T253	1.5" x 100 ft (30 m) coupled fuel hose	150 psi (11)	1.5 (38)
	127167	2" x 33 ft (10 m) coupled fuel hose	150 psi (11)	2 (50.8)
	24T254	2"x 50 ft (15 m) coupled fuel hose	150 psi (11)	2 (50.8)
Air/Water/Anti-Freeze	126359	1/2" x 100 ft (30 m) coupled air/water hose	300 psi (20.6)	1/2 (12.7)
	126360	3/4" x 75 ft (23 m) coupled air/water hose	300 psi (20.6)	3/4 (19)
	126361	3/4" x 100 ft (30 m) coupled air/water hose	300 psi (20.6)	3/4 (19)
	126362	1" x 50 ft (15 m) coupled air/water hose	300 psi (20.6)	1 (25)
	126363	1" x 75 ft (23 m) coupled air/water hose	300 psi (20.6)	1 (25)
	126364	1" x 100 ft (30 m) coupled air/water hose	300 psi (20.6)	1 (25)
Oil	126375	1/2" x 100 ft (30 m) coupled oil hose	2000 psi (138)	1/2 (12.7)
	126376	3/4" x 75 ft (23 m) coupled oil hose	1500 psi (138)	3/4 (19)
	126377	3/4" x 100 ft (30 m) coupled oil hose	1500 psi (103)	3/4 (19)
	126503	1" x 50 ft (15 m) coupled oil hose	1275 psi (88)	1 (25)
	126504	1" x 75 ft (23 m) coupled oil hose	1275 psi (88)	1 (25)
	126505	1" x 100 ft (30 m) coupled oil hose	1275 psi (88)	1 (25)
Waste Oil Evac.	126379	1" x 50 ft (15 m) coupled waste oil evac hose	250 psi (17)	1 (25)
	126688	1.25" x 50 ft (15 m) coupled waste oil evac hose	200 psi (13.8)	1.25 (31.75)
	126380	1.25" x 35 ft (10.5 m) coupled waste oil evac hose	200 psi (13.8)	1.25 (31.75)
	127173	1.5" x 50 ft (15 m) coupled waste oil evac hose	200 psi (13.8)	1 (25)

BSPP/BSPT Conversion Kits	
24T359	BSPP Conversion Kit. To convert a 1" XD 60 or XD 80 reel from NPT to BSPP
24T361	BSPP Conversion Kit. To convert a 1" XD 70 reel from NPT to BSPP
24T365	BSPP Conversion Kit. To convert a 1.5" XD 70 from NPT to BSPP
24T363	BSPP Conversion Kit. To convert a 1.5" XD 80 from NPT to BSPP
24T360	BSPT Conversion Kit. To convert a 1" XD 60 or XD 80 reel from NPT to BSPT
24T362	BSPT Conversion Kit. To convert a 1" XD 70 reel from NPT to BSPT
24T366	BSPT Conversion Kit. To convert a 1.5" XD 70 from NPT to BSPT
24T364	BSPT Conversion Kit. To convert a 1.5" XD 80 from NPT to BSPT
24T368	BSPT Conversion Kit. To convert a 2" XD 70 from NPT to BSPT
24T367	BSPT Conversion Kit. To convert a 2" XD 80 from NPT to BSPT

Dispense Consoles

Multi-Station Consoles and Accessories

Multi-Station Consoles*

Six-Station Console	
222629	Includes upper and lower floor plates with roller guides and brackets (1-110236; 5-196471) to hold one water bib and five Graco LDM dispense valves. Console dimensions (without brackets): 27 in high x 54 in long x 12 in wide (68.58 cm high x 139.7 cm long x 25.4 cm wide). Console requires a floor opening of 6 in x 51 in (15.2 cm x 122.4 cm)
Four-Station Console	
223448	Includes upper and lower floor plates, roller guides and brackets (1-110236; 3-196471) to hold one water bib and three Graco LDM dispense valves. Console dimensions (without brackets): 27 in high x 36 in long x 12 in wide (68.58 cm high x 139.7 cm long x 25.4 cm wide). Console requires floor opening of 6 in x 33 in (15.2 cm x 83.8 cm)
Single Add-On Fluid Module	
222645	For adding-on to four- or six-station consoles. Includes add-on module, floor plates with roller guides to fit module and one 196471. Console requires floor opening of 6 in x 8-1/2 in (15.2 cm x 21.6 cm). Add-on fluid module dimensions 27 in high x 9 in long x 10 in wide (68.5 cm high x 22.86 cm long x 25.4 cm wide)

**Hoses not included*

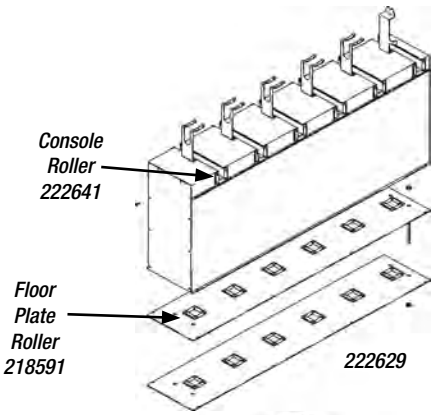
Lubricant Dispense Consoles Accessories	
110236	Water bib bracket
110237	Em6 mounting bracket
110285	Pistol-grip dispense valve bracket
196471	Universal dispense valve bracket for EM5 and PM5
249440	Matrix dispense valve bracket
222641	Console roller repair kit (upper)
218591	Floor plate roller repair kit (lower)
178670	Roller only
234423	End panel replacement comes with 8 screws

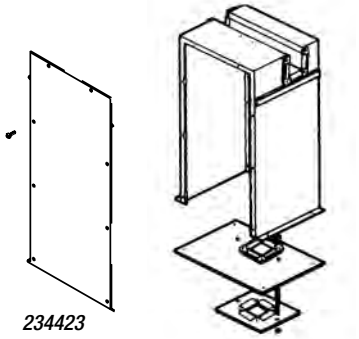
Oil Dispense Bar

220107	Tough metal cabinet with baked-on enamel finish. Constructed with single-dispense tap and waste pan with plated, perforated metal service area and drain connection. Modular convenient design allows up to 2 oil dispense taps or 3 meters to be added at the time of installation, or later if required. Instruction manual 307742. Maximum working pressure 900 psi (62 bar). 22.6 in H x 13.25 in D x 18.3 in W (57.4 cm H x 33.7 cm D x 46.5 cm W)
Tap Kit	
220112	Add to oil dispense bar to convert into two or three taps, as needed. Kit also includes non-drip dispense valve, manifold and all necessary mounting hardware
Meter Kit	
239706	Any individual tap on the oil dispense bar can be fitted with a fluid meter. Kit includes meter 239824 and all necessary mounting hardware. Maximum working pressure 500 psi (34 bar)
220110	Spigot valve replacement

222629

220107





234423

222645

LD Series Electronic Meters

Dispense Meters and Control Valves

Features and Benefits

- Manual and Preset Dispense
- Dispenses in gallons, quarts, pints and liters
- Easy to read LCD display with durable switches for long life
- Rugged engineered material for superior impact resistance and long life
- Ergonomically-designed handle for optimum comfort
- Standard rigid extension kit and automatic thermal compensating nozzle
- Optional extensions available

Typical Applications

- Metered oil dispense
- Heavy-duty dealerships
- Fleet service facilities
- For indoor use only
- Automotive dealerships
- Fast lube centers
- Service shops
- In-plant

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Anti-freeze

Technical Specifications

Flow Range[1] ..... 0.1 - 5 gpm (0.4 - 19 lpm)
Maximum Working Pressure .....1000 psi (69 bar)
Units of measure..... Quarts, pints, gallons, liters (factory set to quarts)
Weight ..... 3 lb (1.36 kg)
Inlet ..... 1/2 in npt
Outlet..... 1/2 in npt
Operating Temperature Range..... 32 - 120º F (0 - 48.8º C)
Storage Temperature Range..... -30 - 120º F (-34.4 - 48.8º C)
Battery ..... 9 volt alkaline
Battery Life..... one year
Wetted Parts..... sst, nitrile rubber, zinc, cs, lcp
Meter Pressure Loss[1] ..... 90 psi (6.2 bar) @ 5 gpm (19 lpm)
Accuracy[2] ..... ±0.5%
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)
Maximum Totalizer ..... 999,999 gallons or liters
Maximum Recorded Dispense..... 999.9 Units (LDP5 only)
Warranty ..... Two Years
Instruction Manual 312668

(1) Tested in 10W oil at 70ºF. Flow rates vary with fluid pressure, temperature, viscosity, inlet fitting and nozzle type.
(2) @ 2.5 gpm (9.5 lpm) @ 70º F (21º C) with 10 wt. oil and 1 gal (3.8 l) dispensed.
May require re-calibration. Out-of-box accuracy ±1.25%. Not recommended for in-line installation.

Ordering Information

LDM5 Manual Dispense Meters	
255751	1/2 in npt(f) swivel, flexible extension and automatic nozzle for oil and anti-freeze
256215	1/2 in npt(f) swivel, rigid extension, trigger guard/boot and automatic nozzle for oil and anti-freeze
258693	1/2 in npt(f) swivel, flexible extension, trigger guard/boot and automatic nozzle for oil and anti-freeze
LDP5 Preset Dispense Meters	
255277	1/2 in npt(f) swivel, flexible extension and automatic nozzle for oil and anti-freeze
256216	1/2 in npt(f) swivel, rigid extension, trigger guard/boot and automatic nozzle for oil and anti-freeze
258694	1/2 in npt(f) swivel, flexible extension, trigger guard/boot and automatic nozzle for oil and anti-freeze

256215

258693

256216

258694

SD Series Electronic Meters

Dispense Meters and Control Valves

255350

Features and Benefits

- Fluid inlet options (½ in and ¾ in npt) meets standard and high-flow requirements
- Large LCD display and simple operator controls
- Locking trigger (LDP5/LDP15 models) and durable cast guard prevents accidental triggering
- Flush-mount nozzle valve design prevents leaks and contamination

Typical Applications

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

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Anti-freeze

Technical Specifications

Flow Range [1]	0.1–14 gpm (0.4 - 53 lpm)
Maximum Working Pressure	1500 psi (103.4 bar)
Weight	5 lbs (2.3 kg)
Inlet	3/4 in–14 npt or 1/2 in–14 npt
Outlet	3/4 in–16 straight thread O-ring Boss
Maximum Totalizer	999,999 gallons or liters
Maximum Recorded Dispense	999.9 Units
Maximum Pre-Set Volume	999.9 Units
Storage Temperature Range	-40–158º F (-40-70º C)
Operating Temperature Range	4–158º F (-20-70º C)
Battery	4 AA alkaline or 4 AA lithium
Battery Life [3]	. . . Preset Models – six months w/alkaline, manual models – one year w/alkaline 4 AA alkaline/lithium
Wetted Parts	Aluminum, sst, pbt/pc, nitrile rubber, cs
Meter Pressure Loss [1]	180 psi (12 bar) @ 14 gpm (53 lpm)
Accuracy [2]	+/- 0.5%
Dimensions (without extension)	13 in L x 3.75 in W x 5.75 in H, (33cm x 9.5cm x 14.6cm)
Warranty	Five years overall, three years electronics
Instruction Manual	312865

[1] Tested in 10W oil at 70º F. Flow rates vary with fluid pressure, temperature, viscosity, inlet and nozzle type.
[2] At 2.5 gpm (9.5 lpm) @ 70º F (21º C) with 10 wt. oil and 1 gal (3.8 l) dispensed. May require re-calibration. Out-of-box accuracy ±1.25%.
[3] Average shop use with alkaline batteries (included); 30-35% longer life with lithium AA.

Ordering Information

SDM5 MANUAL DISPENSE ELECTRONIC METER, 5 GPM OR LESS	
255350	1/2 in npt(f) swivel, rigid extension with standard automatic non-drip quick-close nozzle for oil
255348	1/2 in npt(f) swivel, flexible extension with standard automatic non-drip quick-close nozzle for oil
255349	1/2 in npt(f) swivel, extension with standard quick-close nozzle for gear lube
255802	1/2 in npt(f) swivel, rigid extension with standard quick-close nozzle for anti-freeze
255803	1/2 in npt(f) swivel, flexible extension with standard quick-close nozzle for anti-freeze
SDM15 MANUAL DISPENSE ELECTRONIC METER, 14 GPM OR LESS	
256836	1/2 in npt(f) swivel, rigid extension with high flow, quick-close nozzle for oil and anti-freeze
256837	1/2 in npt(f) swivel, flexible extension with high flow, quick-close nozzle for oil and anti-freeze
255800	3/4 in npt(f) swivel, rigid extension with high flow, quick-close nozzle for oil and anti-freeze
255801	3/4 in npt(f) swivel, flexible extension with high flow, quick-close nozzle for oil and anti-freeze
SDP5 PRESET DISPENSE ELECTRONIC METER, 5 GPM OR LESS	
255200	1/2 in npt(f) swivel, rigid extension with standard automatic non-drip quick-close nozzle for oil
255351	1/2 in npt(f) swivel, flexible extension with standard automatic non-drip quick-close nozzle for oil
255352	1/2 in npt(f) swivel, extension with standard quick-close nozzle for gear lube
255355	1/2 in npt(f) swivel, rigid extension with standard quick-close nozzle for anti-freeze
255356	1/2 in npt(f) swivel, flexible extension with standard quick-close nozzle for anti-freeze
SDP15 PRESET DISPENSE ELECTRONIC METER, 14 GPM OR LESS	
256838	1/2 in npt(f) swivel, rigid extension with high flow, quick-close nozzle for oil and anti-freeze
256839	1/2 in npt(f) swivel, flexible extension with high flow, quick-close nozzle for oil and anti-freeze
255353	3/4 in npt(f) swivel, rigid extension with high flow, quick-close nozzle for oil and anti-freeze
255354	3/4 in npt(f) swivel, flexible extension with high flow, quick-close nozzle for oil and anti-freeze

XDM6™ Electronic Meter

Dispense Meters and Control Valves

Features and Benefits

- Screw-tight nozzle for positive shut off
- Ball bearing swivel for ease of use
- Durable design ideal for use in harsh environments
- Reset capable for periodic dispense history information

24V545

Typical Applications

- Metered oil dispense in demanding environments
- Heavy-duty dealerships
- In-plant
- Service and fast lube centers
- Lube trucks
- Automotive dealerships
- Fleet service facilities
- Mining

Typical Fluids Handled*

- Petroleum- and synthetic-based oils

** Not recommended for use with anti-freeze or windshield washer fluid*

Technical Specifications

Maximum Operating Pressure.....1500 psi (105 bar, 10.5,)
Operating Temperature Range..... -4-130º F (-20-55º C)
Storage Temperature Range..... -40-140º F (-40-60º C)
Inlet .....1/2 npt
Outlet.....1/2 npt
Wetted Parts.....aluminum, SST, CS, acetal, nitrile rubber, Geolast™
Instruction Manual 308642
Accuracy/Repeatability .....+/- 0.6%

Geolast™ is a registered trademark of Advanced Elastomer Systems.

243992

24V554

191782

Ordering Information

		Rigid Extension	Flexible Extension	Gear Lube Extension
XDM6 Electronic Meters				
NPT	1/2" inlet	24V545	24V548	24V547
BSPP		24Y238	24Y242	24Y239
BSPT		24Y249	24Y251	24Y250

XDM6 Bare Valves (no meter, trigger lock, or extension)		
NPT	1/2" inlet	243992
BSPP		24Y312
BSPT		24Y314

Accessories	
24V554	Electronic Control Replacement
203655	Twist Lock Nozzle Replacement 1/4 npt(m)
203687	Flex Extension, hose with 203655 tip
201701	Gear Lube Extension with tip
203265	Rigid Extension with tip
Color-coded Impact Guards for Electronic Meters	
Color-code various fluids dispensed to reduce errors, match store colors, or create a customized appearance. For electronic meters only	
191782	Black
191783	Red

XDM12™ Electronic Meter

Dispense Meters and Control Valves

Features and Benefits

- Reset capable for periodic dispense history information and locking trigger for hands-free operation
- High-flow capability provides up to 12 gpm (45 lpm)
- Rugged design withstands demanding environments

Typical Applications

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

Typical Fluids Handled*

- Petroleum- and synthetic-based oils

**Not recommended for use with anti-freeze or windshield washer fluid*

Technical Specifications

Maximum Recommended Flow Rate ..... 12 gpm (45.4 lpm)
Maximum Operating Pressure ..... 1500 psi (105 bar)
Operating Temperature Range ..... -4-130º F (-20-55º C)
Storage Temperature Range ..... -40-140º F (-40-60º C)
Inlet ..... 1/2 npt and 3/4 npt
Outlet ..... 1/2 npt
Wetted Parts ..... aluminum, SST, CS, acetal, nitrile rubber, Geolast
Instruction Manual 308642

Ordering Information

		Rigid Extension	Flexible Extension
XDM12 Electronic Meters			
NPT	3/4" inlet	24V549	24V550
	1/2" inlet	24V551	24V552
BSPP	3/4" inlet	24Y243	24Y244
	1/2" inlet	24Y246	24Y248
BSPT	3/4" inlet	24Y252	24Y253
	1/2" inlet	24Y254	24Y255

XDM12 Bare Valves with Locking Trigger (no meter or extension)		
NPT	3/4" inlet	238646
	1/2" inlet	238647
BSPP	3/4" inlet	24Y318
	1/2" inlet	24Y315
BSPT	3/4" inlet	24Y319
	1/2" inlet	24Y316

Accessories	
24V554	Electronic control replacement
223920	High flow twist lock nozzle, 1/2 npt(f) with 1 in diameter tip
238400	Automatic nozzle 1/2 npt(f) with 1 in diameter tip
185416	Filter 40 mesh stainless steel
Color-coded Impact Guards for Electronic Meters	
For color-coding fluids dispensed to reduce errors, match store colors, or to protect vehicle's finish. For electronic meters only.	
191782	Black
191783	Red

24V549

238647

191782

223920

In-Line Electronic Meters

Dispense Meters and Control Valves

IM5 Low Pressure Meter

- Heavy-duty construction for outdoor use
- Easy-to-use meter dispenses pints, quarts, liters or gallons
- Compatible with windshield wash solvent or anti-freeze

239824

Typical Applications

- Automotive dealerships
- Fast lube centers
- Service shops
- In-plant

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Anti-freeze
- Windshield wash fluid

24V554

XDI12 and SDI15 Medium/High Pressure Meters

- Reset capable for periodic dispense history information
- Shock-resistant durable design ideal for rugged environments
- Easy-to-use meter dispenses pints, quarts, liters or gallons

Typical Applications

- Automotive and large truck dealerships
- Fast lubes and service shops
- Mining
- Fleet service facilities
- Lube trucks (XDI12 only)
- In-plant

247453

Typical Fluids Handled*

- Petroleum- and synthetic-based oils

** Not recommended with anti-freeze or windshield wash*

Technical Specifications

	IM5 In-Line Meter	XDI12 In-Line Meter	SDI15 In-Line Meter
Flow Range*	0.5 to 5 gpm (1.9 to 19 lpm)	0.12 to 12.0 gpm (0.46 to 45.6 lpm)	0.5 to 15 gpm (1.9 to 57 lpm)
Max. Working Pressure	500 psi (34 bar)	1500 psi (103 bar)	1500 psi (103 bar)
Weight	1.8 lb (0.8 kg)	1.9 lb (0.95 kg)	1.8 lb (0.82 kg)
Units of Measurement	Quarts, pints, gallons, liters (factory-set to quarts)**		
Accuracy	± 0.5%	± 1.0%	± 0.5%
Inlet/Outlet	1/2 npt*	1/2 npt*	1/2 npt*
Operating Temperature Range	-4 - 122º F (-20 - 50º C)	-4º - 130º F (-20º - 55º C)	-4 - 122º F (-20 - 50º C)
Storage Temperature Range	-13 - 122º F (-25 - 50º C)	-40º - 140º F (-40º - 60º C)	-13 - 122º F (-25 - 50º C)
Outdoor	yes	yes	no
Max Totalizer	99,999	19,999	99,999
Max Recorded Dispense	999.99	199.99	999.99
Meter Pressure Loss*	25 psi (1.7 bar) @ 5 gpm (19 lpm)	150 psi (10.3 bar) @ 12 gpm (45 lpm)	22 psi (1.5 bar) @ 14 gpm (53 lpm)
Battery	9-volt, alkaline	Panasonic® CR2450 3V	2AA alkaline
Wetted Parts	nickel, zinc, zenite, nitrile rubber	aluminum, carbon steel, nitrile rubber, nickel, bronze, SST #304, cast ALNICO 8	nitrile rubber, SST, and Geolast
Instruction Manual	308687	334852	313048

**Tested with number 10 motor oil. Flow rates vary with fluid pressure and viscosity. ** Display shows quantity in 0.01 increments up to 999.99 gallons, quarts, pints, or liters. Totalizes in gallons or liters up to 99,999 units (IM5 only).*

Ordering Information

IM5 In-Line Meter	
239824	IM5 In-Line Meter
XDI12 In-Line Electronic Meter	
24V553	In-Line Meter
24V554	Replacement Electronics
SDI15 In-Line Electronic Meter	
247453	In-Line Meter (U.S.)

Mechanical Meters

Dispense Meters and Control Valves

Features and Benefits

- Balanced, lightweight, rugged construction, and comfortable grip
- Non-resettable totalizing register helps manage material usage
- Ideal for indoor and outdoor use

24V034

Typical Applications

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

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Anti-freeze

Technical Specifications

Maximum Flow* ..... 8 gpm (30.2 lpm)
Minimum Flow* ..... 0.28 gpm (1.0 lpm)
Maximum Operating Pressure ..... 1500 psi (103 bar)
Operating Temperature Range ..... -50-160º F (-45-70º C)
Accuracy* ..... ± 1%
Weight ..... 3.5 lb (1.6 kg)
Inlet and outlet connections ..... 1/2 NPT, 1/2 BSPP, 1/2 BSPT

For use with petroleum-based fluids only.
**Tested with 10W motor oil. Minimum/maximum flow rates will vary with fluid viscosity.*

24U947

Ordering Information

Manual Meters

		Bare	Rigid	Flexible	Gear Lube
NPT	4/16 liter	24U956	24V046	24V043	24V049
	4/16 quart	24U959	24V037	24V034	24V040
BSPT	4/16 liter	24U957	24V047	24V044	24V050
	4/16 quart	24U960	24V038	24V035	24V041
BSPP	4/16 liter	24U958	24V048	24V045	24V051
	4/16 quart	24U961	24V039	24V036	24V042

24U959

Preset Meters

		Bare	Rigid
NPT	60 quart	24U947	24V052
	60 gallon	24U950	24V055
	60 liter	24U953	24V058
BSPT	60 quart	24U948	24V053
	60 gallon	24U951	24V056
	60 liter	24U954	24V059
BSPP	60 quart	24U949	24V054
	60 gallon	24U952	24V057
	60 liter	24U955	24V060

24V052

Accessories

24V475	Quick close nozzle with flexible extension for oil
255852	Quick close nozzle with rigid extension for oil
24W641	Quick close nozzle with short rigid extension for oil
255854	Quick close nozzle with rigid extension for gear lube
255855	Quick close nozzle with rigid extension for antifreeze
24W306	Quick close nozzle with flexible extension for antifreeze
256164	Strainer filter kit

Accessories
Dispense Meters and Control Valves

LDM and LDP Accessories

Nozzle Extension Kits	
238887	Automatic nozzle with rigid extension for gear lube
239949	Automatic thermal compensating nozzle with rigid extension for oil and anti-freeze
239951	Automatic thermal compensating nozzle with flexible extension for oil and anti-freeze
239950	Automatic thermal compensating nozzle with rigid extension for gear lube
239829	Automatic thermal compensating nozzle for oil, anti-freeze, and gear lube without extension
238371	Automatic gear lube nozzle without extension

**Economical extension used on model 255751*

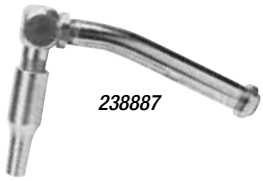
Additional LDM5 Accessories	
240416	Inlet Swivel
114017	Inlet Filter, 80 mesh
196471	Valve Bracket for Dispense Console
240453	Valve Repair Kit

Swivel Covers		Protective Boots with Trigger Guard	
191294*	Black	247759*	Black
191287	Red	243835	Red
191288	Blue	243836	Blue
191289	Green	243837	Green
191295	Yellow	247760	Yellow

**Included on meter 256215, 256216, 258693 and 258694*

239949

239951


238887

247759

191294

SDM and SDP Accessories

Nozzle Extension Replacement Kits For SD Series Meters	
255852	Automatic non-drip quick-close nozzle with rigid extension for oil
255853	Automatic non-drip quick-close nozzle with flexible extension for oil
255854	Non-drip quick-close nozzle with rigid extension for gear lube
255855	Non-drip quick-close nozzle with rigid extension for anti-freeze
255856	Non-drip quick-close nozzle with flexible extension for anti-freeze
255459	Automatic non-drip quick-close nozzle only for oil
255460	Quick-close nozzle only for anti-freeze
255470	Quick-close nozzle only for gear oil
255857	Non-drip quick-close high-flow nozzle with rigid extension for oil and anti-freeze
255858	Non-drip quick-close high-flow nozzle with flexible extension for oil and anti-freeze
255461	Quick-close high-flow nozzle only for oil and anti-freeze

Swivel Covers	
15T366	Black swivel cover (standard color with meter)
15T367	Red swivel cover
15T368	Blue swivel cover
15T369	Green swivel cover
15T370	Yellow swivel cover

Filter Kits for SD Series Meters	
255885	Filter kit includes (10) filters/strainers, (10) spacers and (10) O-rings (155332)

255852

255853

255854

255857

15T366

SDV15 Control Valve

Dispense Meters and Control Valves

Features and Benefits

- Moves fluid up to 15 gpm (56.8 lpm) *(15 gpm obtained with high-flow nozzle–purchased separately)*
- Sturdy cast body designed for use in tough environments
- Lock-on trigger
- 1/2 in npt(f) inlet with built-in ball bearing swivel allows for ergonomic operation
- Inlet screen aids in keeping fluids clean

247712

Typical Applications

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

Typical Fluids Handled

- Motor oils
- Transmission fluid
- Anti-freeze

Technical Specifications

Maximum Recommended Flow Rate	15 gpm (56.8 lpm)
Maximum Operating Pressure	1500 psi (103 bar)
Weight	0.4 lb (0.18 kg)
Operating Temperature Range	-40º–180º F (-40º–82º C)
Inlet	1/2 npt
Outlet	3/4 in, 16 straight thread O-ring boss
Wetted Parts	Aluminum, sst, cs, acetal, nitrile rubber, tpe
Warranty	Five years
Instruction Manual	312789

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

Ordering Information

SDV15 Control Valves	
247712	1/2 in npt(f) swivel, locking open trigger, rigid extension and standard automatic non-drip quick-close nozzle for oil products
247713	1/2 in npt(f) swivel, locking open trigger, flexible extension and standard automatic non-drip quick-close nozzle for oil products
247714	1/2 in npt(f) swivel locking open trigger, gear lube extension and standard quick-close nozzle
247715	1/2 in npt(f) swivel locking open trigger, rigid extension and standard quick-close nozzle for anti-freeze
247716	1/2 in npt(f) swivel locking open trigger, flexible extension and standard quick-close nozzle for anti-freeze
Bare Valve (no extension)	
247717	1/2 in npt(f) swivel locking open trigger, 3/4 in - 16(f) straight thread O-ring boss outlet, and trigger lock, no extension
Accessories	
256164	Filter kit includes (10) filters/strainers (185416)
255459	Quick-close nozzle only for oil
255460	Quick-close nozzle only for anti-freeze
255470	Quick-close nozzle only for gear lube
255857	Non-drip quick-close high-flow nozzle with rigid extension for oil and anti-freeze
255858	Non-drip quick-close high-flow nozzle with flexible extension for oil and anti-freeze
255461	Quick-close high-flow nozzle only for oil and anti-freeze

XDV20 Control Valve

Dispense Meters and Control Valves

Features and Benefits

- Moves fluid up to 20 gpm (76 lpm)
- Lock-on/lock-off trigger for hands-free operation
- Rugged cast-body design withstands harsh environments
- Built-in ball bearing swivel allows for ergonomic operation
- Inlet screen aids in keeping fluids clean
- Quick close high flow nozzle for high volume dispensing–moves fluids fast!

247722

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

- Motor oils
- Transmission fluid
- Anti-freeze

247724

Technical Specifications

Maximum Recommended Flow Rate ..... 20 gpm (76 lpm)
Maximum Operating Pressure..... 1500 psi (105 bar)
Assembly Weight (no meter) ..... 0.4 lb (0.18 kg)
Operating Temperature Range..... -40º–180º F (-40–82º C)
Inlet ..... 1/2 npt and 3/4 npt
Outlet..... 7/8-14 straight thread o-ring boss
Wetted Parts..... aluminum, SST, CS, acetal, nitrile rubber, Geolast
Instruction Manual 308642

Ordering Information

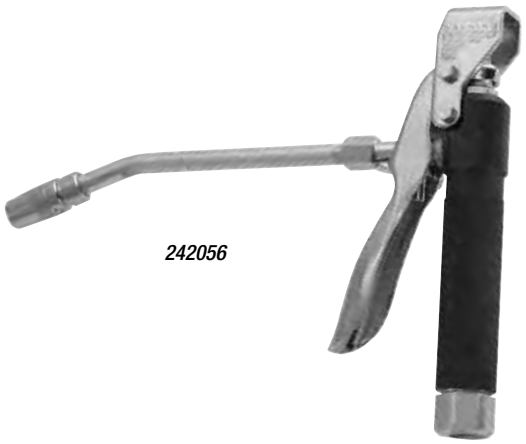
XDV20 Control Valves	
247718	1/2 npt(f) swivel inlet, 1/2 in (12.7 mm); rigid extension, high flow, quick-close nozzle
247721	1/2 npt(f) swivel inlet, 1/2 in (12.7 mm); flexible extension, high flow, quick-close nozzle
247722	3/4 npt(f) swivel inlet, 1/2 in (12.7 mm); rigid extension, high flow, quick-close nozzle
247723	3/4 npt(f) swivel inlet, 1/2 in (12.7 mm); flexible extension, high flow, quick-close nozzle
Bare Valves (no extension)	
247724	Has locking trigger and in-line flow through 1/2 npt(f) swivel inlet; 7/8-14 straight thread O-ring boss outlet
247725	Has locking trigger and in-line flow through 3/4 npt(f) swivel inlet; 7/8-14 straight thread O-ring boss outlet
Accessories	
255793	Quick-close high flow nozzle for oil, ATF and anti-freeze; 7/8-14 straight thread O-ring boss inlet (XDV20 only)
255859	Flex extension with quick-close nozzle (255793) for XDV20
255921	Rigid extension with quick-close nozzle (255793) for XDV20

Grease Dispense Valves

Dispense Meters and Control Valves

Pro Shot™ Non-Metered Grease Valves

- Rugged design for harsh environments
- Pressure-assisted trigger for ease of operation
- Easy top adjustment with locking nut
- Pro-Shot adjustment nut protected by rigid guard



242056

Typical Applications

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

Typical Fluids Handled

- Grease up to NLGI #2

Ordering Information

Pro-Shot Grease Dispense Valve	
242056	1/4 npt(f) inlet with coupler and extension 200389
242055	1/4 npt(f) inlet without coupler or extension
242058	3/8 npt(f) inlet with coupler and extension 200389
242057	3/8 npt(f) inlet without coupler or extension
224872	Includes 30 in (76.2 cm) whip hose (109148), Z-Swivel (202577) and grease valve (242056)

Accu-Shot™ Metered Grease Valves

- Accurate grease metering within ±3%
- Easy-to-read LCD display
- Handles pressure up to 5000 psi (345 bar) and flow up to 36 oz/min (1 kg/min)

233807

Typical Applications

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

Typical Fluids Handled

- Grease up to NLGI #2

Ordering Information

Accu-Shot Electronic Metered Grease Valve	
233807	U.S. Measurement, includes extension and hydraulic coupler
233933	Metric Measurement, includes extension and hydraulic coupler

Matrix™
Fluid Management Systems

Features and Benefits

- Wireless transmission and reception of meter and tank level information make it simple to track your entire facility's activities
- Customize to fit your business–three product platforms (Basic, Professional, and Premier) to fit any size facility
- Multi-level security to protect your assets
- Precise measurement and control of fluids ensures profits and eliminates out of stock issues for critical inventory
- ADP and Reynolds & Reynolds interfaces provide secure, reliable, data transfer between the Matrix database and the dealership management software

Premier software
256634

Typical Applications

- Auto dealerships
- Heavy-duty fleet service
- Off-road maintenance shops
- Industrial in-plant lubrication

Transceiver
257464

Matrix Meter
256282

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Anti-freeze
- Gear lube

Tank Level Monitor
256285

Pump Air Control
247436

Matrix Application Features

Feature	Basic	Professional	Premier
Maximum Number of Transceivers	1	2	8
Maximum Number of Meters	30	100	300
Maximum Number of Tank Monitors	0	12	50
Client PC Networking	0	6	300
Number of users	250	500	1000
Track Dispense by Work Order	X	X	X
Track Dispense by Technician			X
Track Dispense by Vehicle Number			X
Tank Level Email		X	X
Third Party Interface Capable		X	X
ADP® Certified Interface			X
Reynolds® Certified Interface			X
No fluid limitations with any Matrix Platform			

Matrix Demo Kit

Professional Matrix demo case with everything you need to show your customers how Matrix will save them time, gain them more billable hours, and maximize their fixed-operation's profitability.

Ordering Information

Matrix Demo Kit	
24X077	Includes Matrix Demo Meter (24F318), Matrix Premier Software (256634), Matrix Transceiver (257464), Matrix Tank Level Monitor (256285), Matrix Pump Air Control (247436), USB Cable (15T998), Custom Protective Case

Software System Operating Requirements

Matrix software can be configured as a stand-alone PC or networked to multiple PC's. This software is not compatible with Apple® Computers, and is not available for the Apple® Operating system. The PC requirements for the Matrix Server and Matrix Client or shop PC's are noted below.

Server PC Hardware Requirements

- Windows® 2003 and Windows® 2008 (R2) server platforms
- Pentium® 4 or better processor
- Processor speed of 3.0 GHz or better
- RAM memory of 1 GB or better
- CD-RW or DVD/RW drive
- Serial port configuration for (1) RS422 and (1) USB connection

PC Clients

- Windows® XP, Vista®, Windows® 7 and Windows® 8 operating system
- Pentium® 4 or better processor with a processor speed of 2.0 GHz or better
- RAM memory of 1 GB or better

Software Instruction Manuals

Basic	Professional	Premier	ADP	Procede	Reynolds & Reynolds
313104	313106	313108	313112	334786	313114

RF Communication (Meters, Transceivers, Tank Level Monitors, Pump Air Control)

Description	Performance
RF Communication	2.4 GHz Direct Sequence Spread Spectrum
RF Communication Range	Unobstructed: 300 to 500 ft (91 to 152 m); Obstructed: 250 to 300 ft (76 to 91 m)
RF Temperature Range	-40° F to 185° F (-40° C to 85° C)
Approvals	FCC, Industry Canada (IC), C-Tick, CE

Ordering Information

System Software	
256634	Premier Software CD (includes 3rd party interface)
256635	Professional Software CD
256636	Basic Software CD
256637	Premier Software with ADP Interface
128160	Premier Software with Procede Excede Interface
256638	Premier Software with Reynolds & Reynolds Interface
Transceiver and Connection Hardware	
257464	Transceiver with Universal Power Adapter
255731	USB/RS422 Converter
15T999	15 ft USB Cable
15T998	3 ft USB Cable
119572	RS422 Bulk Wire (1000 ft roll)

257464

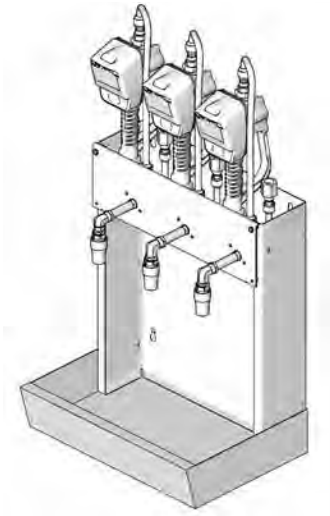
Transceiver and Connection Hardware Technical Specifications

Weight . . . . . 1.0 lb (454 grams)
Power Supply . . . . . 100 – 240 V, 50/60 Hz to 12 VDC plug-in transformer
Instruction Manual 313008

Matrix Meter and Accessories

Matrix Electronic Meter with Extension, 5 gpm or Less		
256282	1/2 in npt(f) swivel, rigid extension and standard automatic non-drip quick-close nozzle for oil	
256482	1/2 in npt(f) swivel, flexible extension and standard automatic non-drip quick-close nozzle for oil	
256483	1/2 in npt(f) swivel, gear lube extension and standard quick-close nozzle	
256484	1/2 in npt(f) swivel, rigid extension and standard quick-close nozzle for anti-freeze	
256485	1/2 in npt(f) swivel, flexible extension and standard quick-close nozzle for anti-freeze	
Matrix Electronic Meter with Extension, 14 gpm or Less		
256486	1/2 in npt(f) swivel, rigid extension, high flow, quick-close nozzle for oil	
256487	1/2 in npt(f) swivel, flexible extension, high flow, quick-close nozzle for oil	
256488	3/4 in npt(f) swivel, rigid extension, high flow, quick-close nozzle for oil	
257120	3/4 in npt(f) swivel, flexible extension, high flow, quick-close nozzle for oil	
Swivel Covers		
15T366	Black swivel cover (standard color with meter)	
15T367	Red swivel cover	
15T368	Blue swivel cover	
15T369	Green swivel cover	
15T370	Yellow swivel cover	
Accessories		
249440	Console bracket	
257539	Matrix meter for oil bar (swivel and extension removed)	Instruction Manual 313013
256719	Oil bar console–complete cabinet without piping and meters	
255370	Oil bar kit (fittings, nozzles, and piping)	
257556	Retro fit kit–mount Matrix meter in 222107 console	
Filter Kits for Matrix Meters		
255885	Filter kit includes (10) filters/strainers (15M308), (10) spacers (15M309) and (10) O-rings (155332)	

Matrix Meter 256282



Oil Bar
Components ordered separately. For complete unit, order oil bar 256719, kit 255370 (one per meter) and Matrix meters (257539) as needed

Technical Specifications

Flow Range [1] . . . . . 0.1 to 14 gpm (0.4 to 53 lpm)
Maximum Working Pressure . . . . . 1500 psi (103.4 bar)
Operating Fluid Pressure Range . . . . . 100 – 1500 psi (7–103 bar, 0.7–10.3)
Weight (with battery and rigid nozzle extension) . . . . . 6.07 lbs (2.75 kg)
Units of Measurement . . . . . Programmable in pints, quarts, gallons, or liters
Inlet . . . . . 3/4 in–14 npt or 1/2 in–14 npt
Outlet . . . . . 3/4 in–16 straight thread O-ring Boss
Maximum Totalizer . . . . . 999,999 gallons or liters
Maximum Recorded Dispense . . . . . 999.9 Units
Maximum Pre-Set Volume . . . . . 999.9 Units
Battery . . . . . 4 AA alkaline or 4 AA lithium
Battery Life [3] . . . . . Preset Models–six months, manual models–one year
Wetted Parts . . . . . Aluminum, sst, pbt/pc, nitrile rubber, cs
Fluid Compatibility . . . . . Petroleum- and synthetic-based oils and anti-freeze mixtures (not compatible with fuel and windshield washer fluid)
Meter Pressure Loss [1] . . . . . ± 0.5%
Accuracy [2] . . . . . ± 0.5%
Repeatability [2] . . . . . ±0.15 %
Dimension w/o Extension . . . . . 13 in L x 3.75 in W x 5.75 in H, (33 cm x 9.5 cm x 14.6 cm)
Instruction Manual 313046

1. Tested in 10W oil at 70º F. Flow rates vary with fluid pressure, temperature, viscosity, inlet fitting and nozzle type.
2. At 2.5 gpm (9.5 lpm) @ 70º F (21º C) with 10 wt. oil and 1 gal (3.8 l) dispensed. May require re-calibration. Out-of-box accuracy ±1.25%.
3. Average shop use with alkaline batteries (included); 30-35% longer life with lithium AA

Matrix™
Fluid Management Systems

Tank Level Monitor
Choose one TLM for each bulk fluid tank. Tank readings are automatic for used or new oil and anti-freeze products.

Tank Level Monitor	
256285	Tank Level Monitor

Tank Level Monitor
256285

Technical Specifications
Ultrasonic Tank Depth Measurement Range . . . . . 0 – 30 ft. (0-9 m) (Not recommended for use with pressurized tanks)
Fluid Level Measurement Accuracy* . . . . . ± 0.5%
Weight . . . . . 2.34lb (1.06 kg)
Operating Temperature Range . . . . . -22° F - 122° F (-30° C - 50° C)
RF Operating Temperature Range. . . . . -40° F - 185° F (-40° C - 85° C)
Storage Temperature Range. . . . . -40° F - 185° F (-40° C - 85° C)
Ambient temperature range** . . . . . -22º F - 122º F (-30º C - 50º C)
Batteries. . . . . (2) 9 VDC Alkaline only
Vertical Tanks . . . . . Maximum volume: 999,999 gallons or liters, maximum height: 30 ft (360 in.)
Cylindrical Tanks . . . . . Maximum volume: 999,999 gallons or liters, maximum diameter: 30 ft (360 in.)
Approvals . . . . . FCC, Industry Canada (IC), C-Tick, CE
Instruction Manual 312964

Note: Do NOT use the Matrix Tank Level Monitor with gasoline, diesel fuel, or other flammable liquids, and materials with an auto ignition temperature below 419º F (215º C)

* The difference in air temperature between the inside and outside of the tank may affect the accuracy of fluid levels

** Display will not function below 32º F (0º C)

Pump Air Control
One PAC required for each air pump. For safety and increased security, the PAC is a must have to maximize your fluid management system. Designed to supply air to the pump only when Matrix authorizes the dispense.

Pump Air Control (PAC)	
247436	93 scfm valve

Pump Air Control
247436

Technical Specifications
Operating Pressure Range. . . . . 23-145 psi (1.7 - 10 bar)
Maximum Air Flow . . . . . 247436 - 93 SCFM (2.6m^3/min)
Power Supply . . . . . 120-240 VAC line voltage, 24VDC solenoid
Output Power . . . . . 10mW - 100mW
AMPS. 1A
Frequency . . . . . 50/60 Hz
Operating Temperature Range* . . . . . 32° F - 122° F (0° C - 50° C)
Enclosure Type . . . . . NEMA Type 3
Weight . . . . . 247436 - 3.4 lbs (1.5 kg)
Instruction Manual 312417

Note: Do NOT use the Matrix Tank Level Monitor with gasoline, diesel fuel, or other flammable liquids, and materials with an auto ignition temperature below 419º F (215º C).

* The difference in air temperature between the inside and outside of the tank may affect the accuracy of fluid levels. Display will not function below 32º F (0º C).

Tank Accessories

CleanLine Filter Assemblies	
248421	900 psi tank mount CleanLine filter assembly (includes thermal relief)
248418	900 psi wall mount CleanLine filter assembly (includes thermal relief)
248419	1800 psi tank mount CleanLine filter assembly
248417	1800 psi wall mount CleanLine filter assembly
Replacement Filters	
15D702	900 psi CleanLine screw-on type filter
119278	1800 psi CleanLine filter element

Horizon™
Fluid Management Systems

Features and Benefits

- Allows multiple technicians to dispense simultaneously
- Easily configured and expandable for any facility
- Increases technician productivity
- Password-protected to prevent unauthorized dispensing
- Tracks inventory levels and alerts operators to low inventory conditions to minimize out-of-stock situations

Typical Applications

- Bulk-dispensing to multiple service bays
- Automotive dealerships
- Heavy-duty dealerships
- Fleet service facilities

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Anti-freeze

Technical Specifications

System Specifications

Control Modules on a System (1 Master only, plus 39 Slaves) ..... 40 maximum
Keypads on a System (1 keypad per Control Module) ..... 40 maximum
Solenoids on a System (40 Control Modules, 6 ports each) ..... 240 maximum
Meters on a System (40 Control Modules, 6 ports each) ..... 240 maximum
Fluids on a System ..... 10 maximum
Dispense Areas (reel banks) ..... 99 maximum
Operator Names / PIN Numbers ..... 100 maximum
Dispense Records Stored ..... 668 maximum
Simultaneous Dispenses (same and/or different fluids): ..... 12 maximum
Jobs Waiting in Queue ..... 12 maximum
Printer per System OR Attached Computer per System ..... 1 maximum
(either must be connected to Master Control Module)
Accuracy of System ..... ±0.6%

Control Module Ports

Solenoid Ports (air or fluid) per Control Module 6
Pulse Meter Ports per Control Module 6
Port for Keypad per Control Module 1
Port for Printer or Computer per Master Control Module 1

Voltage Input

90-120 Volts AC, 50/60 Hz, single phase, 2 amps maximum draw
208-240 Volts AC, 50/60 Hz, single phase, 1 amp maximum draw
Operating Temperature Range ..... 40 - 140º F (4 - 60º C) ambient
Pre-set or Free-flow Options
Maximum Preset or Free-Flow Dispense ..... 999.9 units
Minimum Preset Dispense ..... 0.5 units

Units of Measure

Dispense ..... liters, quarts, gallons or pints (configurable for each fluid)
Inventory ..... liters or gallons (dependent upon dispense units chosen)

Maximum Cable Lengths

From Keypad to Control Module ..... 50 ft (15.3 m)
From Solenoid to Control Module ..... 50 ft (15.3 m)
From Pulse Meter to Control Module ..... 50 ft (15.3 m)
From Printer/Computer to Master Control Module ..... 50 ft (15.3 m)
From one end of the Control Module Network to the other end (daisy-chained) .....
..... 2000 ft (610 m)

Reference Data

Instruction Manual 308607

Ordering Information

Control Module drives air and fluid solenoids, and counts pulses from meters. On-board memory contains a map of available system resources, and a power supply that supports both 120 and 240 Volt AC operation. Combine one Master Control Module with up to 39 Slave Control Modules per system	
238624	Master Control Module (one per system)
238625	Slave Control Module (up to 39 per system)
Keypads: Basic, Enhanced and Administrative	
113551	Basic Keypad for navigating through the Horizon's menus
113553	Administrative Keypad is needed to set up and make changes to the system parameters
191368	Keypad Wall-Mounting Bracket
Air Solenoids open and close the air supply to the fluid pump air motor. Each solenoid can be up to 50 ft (15.3 m) from a Control Module. Up to 6 solenoids (air or fluid) can be connected to each Control Module	
215407	For pumps requiring normal air flow (Mini Fire-Ball 225, 3:1 and Fire-Ball 300, 5:1)
512926	For pumps requiring higher air flow (Fire-Ball 425, 6:1 and 3:1)
Fluid Solenoids start and stop the fluid dispense cycles. These must be placed at each dispense point for each fluid being dispensed. Each fluid solenoid can be up to 50 ft (15.3 m) from a control module. Up to 6 solenoids (either air or fluid) can be connected to each control module. The low-flow model is available in a kit with a ready light which alerts the operator when the job is ready to dispense	
215487	Low-flow: supports 3 gpm (11.4 lpm)
512927	Higher-flow: supports up to 6 gpm (22.7 lpm)
514150	Anti-Freeze Solenoid
218588	Low-flow Solenoid with Ready Light Kit
238996	Ready Light Kit (only; less the solenoid)
Pulse Meters measure fluid flow to dispense points and send a train of pulses back to the Control Modules which are counted to determine how much fluid has been dispensed. If there are multiple meters for a single fluid, check valves (111620) should be placed in series with each meter to prevent "cross talk" and oscillations. Pulse Meters can be used for either U.S. or metric units	
238618	For oils, gear lube, automatic transmission fluid
215474	For anti-freeze
111620	Check Valve, 1/2 in
Thermal Relief Kits	
235998	600 psi (41 bar)
102527	Thermal Relief Valve, 900 psi (62 bar)
237893	900 psi (62 bar)
240429	1600 psi (110 bar)
System Printer prints job tickets after each dispense is complete, plus has save function for later analysis	
113774	Printer
514037	Printer paper, 1 roll
Keypad or Printer Cables	
191393	25 ft (7.6 m) cable with connectors
191394	Cable with connectors. 50 ft (15.3 m)
Control Module Network	
113559	500 ft (152.5 m) bulk cable
113560	1000 ft (305 m) bulk cable
Pulse Meter Cable	
113555	Length: 500 ft (152.5 m)
113556	Length: 1000 ft (305 m)
Solenoids Cable	
113557	Length: 500 ft (152.5 m)
113558	Length: 1000 ft (305 m)
Computer Cable with Connectors	
192873	Computer I/O 25 ft (7.6 m)
192874	Computer I/O 50 ft (15.3 m)

238624

113553

113551

215487

215407

113774

238618

Fluid Commander™
Fluid Management Systems

Features and Benefits
- Provides increased accuracy over mechanical counters
- PIN code prevents unauthorized dispensing
- Dispense totals tracked by location
- Easy to read display
- Accurate controlled dispense with parts room authorization

Typical Applications
- Parts room authorized dispensing for inventory control
- Automotive dealerships
- Heavy-duty dealerships
- Fleet service facilities

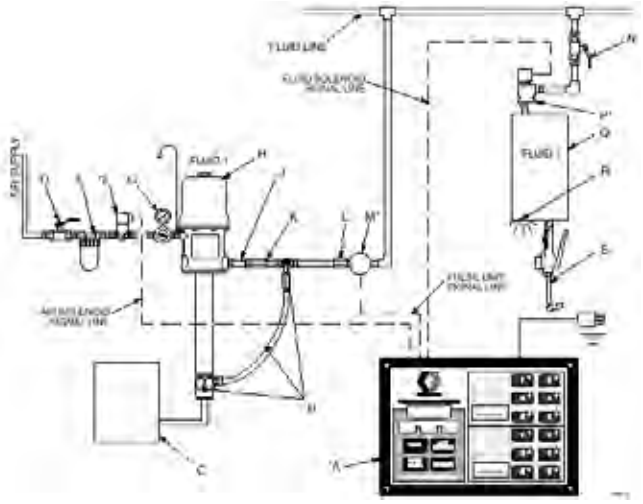
Typical Fluids Handled
- Petroleum- and synthetic-based oils
- Anti-freeze

Easy to Use
- 1. Service technician enters the service bay number, type of product, and amount to be dispensed, then activates the dispense button.
- 2. A “ready” light (located on the hose reel or dispense bar of the target service bay) signals when dispensing can begin.
- 3. As fluid is dispensed, the Fluid Commander tallies the amount dispensed and shuts-off when the pre-set amount is reached. No further dispensing takes place until new dispensing data is entered.

Technical Specifications

Maximum Number of Fluids	1 or 2
Dispense Stations/Bays	6 or 12
Air Solenoids Required	1 (per pump)
Fluid Solenoids Required	1 (per fluid dispense station)
Electrical Requirements	120 V, 60 Hz, .25 amps
Weight	4 lb, 5 oz. (8.0 kg)
Wiring Requirements	90V; 2-wire
Distance/Gauge	.....200 ft (61 m) = 18 gauge, 201 to 500 ft (61 m to 152 m) = 16 gauge, ...501 ft (152 m) or more = 14 gauge
Instruction Manual	308238

Typical Fluid Commander System Layout



KEY

A. Control*
B. Pressure Relief Kit, 237893, 1–1/2 npt (m x f)
C. Supply Tank
D. Air Shutoff Valve, bleed-type
E. Air Filter
F. Air Solenoid Valve*, 215407
G. Air Regulator, 202156
H. Pump
J. Flexible Hose, 3–6 ft (0.9–1.8 m) long
K. Check Valve*, 111620 (required)
L. Fluid Filter, 223179
M. Pulse Meter*, 236763 or 236764
N. Fluid Shutoff Valve, 108458, 1/2”
P. Fluid Solenoid Valve*, 215487
Q. Hose Reel
R. Ready Light, 238996
S. Dispense Valve

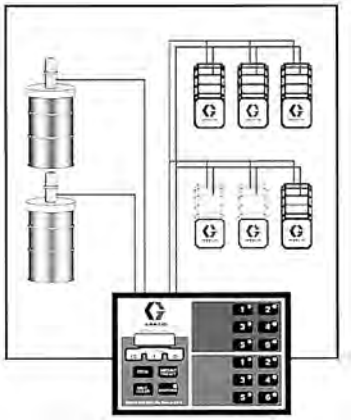
* These parts are included with Model 232076, 240448, or 241905.

Fluid Management Systems

Fluid Commander™

Ordering Information

Fluid Commander Systems	
232076	U.S. Measure Fluid Commander System for 2 products and 6 stations. Includes: One 2-product/ 6-station Fluid Commander (235532), oil meter (236763), fluid solenoid valve (215487), air solenoid valve (215407), Check valve (111620)
241905	U.S. Measure Fluid Commander System for 1 product and 12 stations. Includes: One 1-product/12-station Fluid Commander (235531), Oil Meter (236763), Fluid Solenoid valve (215487), Air Solenoid valve (215407), check valve (111620).
240448	Metric Measure Fluid Commander System for 2 products and 6 stations. Includes: One 2-product/ 6-station Fluid Commander (232077), oil meter (236764), Fluid Solenoid valve (215487), Air Solenoid valve (215407), check valve (111620)
Accessories	
111620	Check valve
236763	Electronic Pulse Meter (quarts)
236764	Electronic Pulse Meter (liters)
215474	Mechanical Pulse Meter (quarts)
244342	Meter Pulse Converter, used when upgrading old-style modular fluid commander to electronic allows use of 215474/215475 with the EFC. Instruction manual 309276
Air Solenoid Valves	
215407	Air Solenoid Valve, 150 psi (10 bar) (1/2 npsm(f) conduit ports for wiring; 1/4 npt(f) air ports, adapted to 3/8(f) IN, 3/8(m) OUT) operates on 24V DC and 110 VAC. Automatically shuts-off air inlet to pump when pre-set dispensed amount is reached. Materials of construction: brass, SST, Buna
105474	Air Solenoid Valve (bare) 150 psi (10 bar), same as 215407 but without wire connectors or adapters. 1/2 npsm(f) conduit ports for wiring; 1/4 npt(f) air ports.150 psi (10.3 bar) max. working pressure
Fluid Solenoid Valves	
215487	Fluid Solenoid Valve, 1/2 npt(f) 3000 psi (207 bar) operates on 24V DC. Automatically shuts-off fluid when pre-set dispensed amount is reached. Includes tube, valve, pin connector, wire plug connector and adapter
514150	Fluid Solenoid Valve for anti-freeze, 150 psi max. (10 bar), 1/2 npt(f), same as features as 215487
110025	Bare Fluid Solenoid Valve, 1/2 npt(f) 3000 psi, same features as 215487 above, but without wiring connectors or adapters
Ready-Light Kits	
218588	Ready-Light Kit, signals operator when dispensing can begin. Includes “ready to dispense” Indicator Light (239019), Strainer (240417), Fluid Solenoid Valve (215487) and hardware. Manual 307696
238996	Ready-Light with Junction Box (no solenoid or strainer)
239019	Ready-to-Dispense Indicator Light only
113859	Lamp for Indicator Only
Installation Components	
223179	Fluid Filter Kit (for bare electronic meter)
186472	Wall-Mounting Bracket
108458	Fluid Shut-Off Valve
237893	Thermal Relief Kit for 900 psi (62 bar), relieves excess heat-induced pressure from dispense system. Male and female ends allow for simple installation. Instruction manual 308403
Connecting Cables for Connecting Solenoids and Consoles, 90-volt, 2-wire, 18-gauge	
215481	100 ft (30.5 m) pre-connected at both ends



215407

215487

215481

Manually-Operated Grease Guns

Grease Guns, Accessories and Fittings

Ordering Information

Grease Guns	
202600	1/8 npt(f) Power-Shot Booster Gun boosts incoming pressure up to 18,000 psi (1,242 bar). Use with any high-pressure lubricator. Maximum inlet pressure: 5000 psi (345 bar). Includes nozzle (200389). (Hose swivel 202579 must be ordered separately). Instruction Manual: 306271
110218	Standard Lever-Action Grease Gun: Develops up to 6000 psi (400 bar) working pressure and pumps 1.8 oz (51 g) per 40 strokes. Can be loaded via cartridge or bulk fill. Optional loader fitting available. Equipped with rigid extension and hydraulic coupler
110216	Heavy-Duty Lever-Action Grease Gun with high-pressure variable low-volume. Three-way loading: bulk fill, loader fitting or 14 oz cartridge. Pumps 1.24 oz per 40 strokes. Includes air bleeder valve. Equipped with rigid extension and hydraulic coupler (M IL-G-3859). Can develop up to 10,000 psi (690 bar). Comes with 236171, easy fill valve
110203	Pistol-Matic Grease Gun with three-way loading: bulk fill, loader fitting or cartridge. Pumps .72 oz (28.4 g) per 40 strokes. Includes air bleeder valve. Equipped with rigid extension and hydraulic coupler. Can develop up to 3500 psi (241 bar)
203697	1/8 npt(f) Hot-Shot Portable Booster Gun for portable operation without continuous connection to grease supply. Has 4 oz (113 g) grease reservoir in handle capable of servicing up to 100 fittings before needing a refill. Has grease fitting for recharging from either manual or air-powered luber. Single-hand operation squeeze handle develops up to 10,000 psi (690 bar). Includes grease extension and nozzle 200389. Instruction Manual: 306460
110202	Pistol-Matic Grease Gun is the same as 110203 but with 12 in (30.4 cm) flexible rubber hose and hydraulic coupler
112196	1/4 npt Pistol-Style Air-Operated Grease Gun is a spring-primed, single-shot gun. Three-way loading: bulk fill, loader fitting or 14 oz (400 g) cartridge. Air input range of 75 to 100 psi (5 to 7 bar); working pressure of 6000 psi (414 bar). Pumps 1.2 oz (34 g) per 40 pulls at 100 psi (7 bar). Includes standard gun coupler and bleeder valve, 1/8 in-27 NPT rigid extension. (1/4 npt air input connection)
110201	Suction Gun for evacuating and filling fluids into gear housings, differentials, transmissions and related applications. Holds 1 pint (16 oz/473 cc), comes with red clear plastic 12 in (30.4 cm) hose
Z-Swivels	
202579	1/8 npt(m) x 1/4 npt(f) free-ball bearing
202577	1/4 npt(m) x 1/4 npt(f) free-ball bearing use with dispense valve 242055 and 242056
224569	3/8 npt(m) x 3/8 npt(f) free-ball bearing use with dispense valve 242057 and 242058
207948	1/2 npt(m) x 1/2 npt(f) free-ball bearing
Straight Swivels	
204082	1/8 npt(m) x 1/8 npt(f) 8000 psi (550 bar) free-ball bearing
204083	1/4 npt(m) x 1/8 npt(f) 8000 psi (550 bar) free-ball bearing
204084	1/4 npt(m) x 1/4 npt(f) 8000 psi (550 bar) free-ball bearing
214925	3/8 npt(f) x 1/4 npsm(f-union) 5000 psi (345 bar)
214926	3/8 npt(f) x 1/2 npsm(f-union) 5000 psi (345 bar)
207946	3/8 npt(f) x 1/2 npsm(f-union) 5000 psi (345 bar)
207947	1/2 npt(m) x 1/2 npt(f) 6000 psi (414 bar)
360º Swivels	
Swivels and locks into full 360º angle. Use for maximum coupler adaptability and reach	
203597	360º Grease Swivel with tapered-nose coupler (200325)
203198	360º Grease Swivel, 8,000 psi (552 bar) maximum working pressure (without coupler)

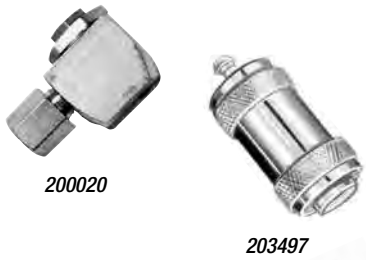
Manually-Operated Grease Guns

Grease Guns, Accessories and Fittings

Grease Nozzles	
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 360º 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 360º 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

**Warning: potential injection hazard. Not for use above 5000 psi (345 bar).*

Grease Couplers	
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 8000 psi (551 bar)
202650	1/8 npt(f) inlet standard straight nose grease coupler for manual operated grease guns only. Maximum working pressure 3000 psi (206 bar)
200020	1/8 npt(f) inlet standard button-head coupler. Gives fast, positive seal on button-head fittings
200021	1/8 npt(f) inlet giant button-head coupler. Gives fast, positive seal on larger button-head fittings
Adapters have lock-sleeve quick-connector, works with any grease nozzle with a tapered-nose coupler	
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	90º 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)



Grease Gun Fittings

1/8 npt Threaded Grease Fittings (steel; ball-check)			
Part No.	Shank	Description	Pressure Rating
100054	9/32	1/8 npt straight	10,000 psi (690 bar)
101277	1-9/32	1/8 npt straight	
100970	9/32	1/8 npt 30º angle	
100834	9/32	1/8 npt 45º angle	
100971	9/32	1/8 npt 65º angle	
100833	9/32	1/8 npt 90º angle	

Manually-Operated Grease Guns

Grease Guns, Accessories and Fittings

1/4 npt Threaded Grease Fittings (steel; ball-check)			
100848	3/8	1/4 npt 67º angle	10,000 psi (690 bar)
100846	3/16	1/4-28 straight	
100847	13/64	1/4-28 45º angle	
101283	3/16	1/4-28 90º angle	
101281	11/32	1/4-28 straight	
110702	19/64	1/4-28 65º angle	
100835	12/32	1/4-28 straight	
1/4 npt Thread-Forming Grease Fittings (steel; ball-check)			
110703	13/64	1/4-28 straight	10,000 psi (690 bar)
110705	13/64	1/4-28 90º angle	
3/16 npt Thread-Forming Grease Fittings (steel; ball-check)			
110706	3/32	3/16 npt straight	10,000 psi (690 bar)
110709	7/32	3/16 npt 65º angle	
Drive-Type Grease Fittings (steel; no check)			
110713	1/4	3/16 npt straight	
101312	1/4	3/16 npt straight	
110710	1/4	5/16 npt straight	
101287	17/64	1/4 npt straight	
Standard Button-Head Grease Fitting (steel)			
100837	7/16	1/4 npt straight	
101297	33/64	3/8 npt straight	
110711	35/64	1/2 npt straight	
Giant Button-Head Grease Fitting (steel)			
110712	9/16	3/8 npt straight	
100854	1/2	1/4 npt straight	

Grease Accessory Packages			
202654	Convenient Storage Box Contains the following threaded fittings in the quantity listed:		
Shank	**Description**	**Grease Fitting No.**	**Quantity**
9/32	1/8 npt straight	100054	30
9/32	1/8 npt 30º angle	100970	10
9/32	1/8 npt 90º angle	100833	10
3/16	1/4-28 straight	100846	20
13/64	1/4-28 45º angle	100847	10
Easy-Outs			
101604	1/8 npt		
101605	1/4-28 unf		

101287

100834

101297

110712

202654

101605

101604

Oil King,™ Coolant King™ and Oil Ace™

Fluid Reclaim Packages and Accessories

Oil King and Coolant King

- Large 25 gallon capacity with sight gauge
- Convenient tool trays and filter areas
- Large offset collection pan with screen
- Oversized tires to get over hose and rough floors
- Color specific receiver for easy identification

238866

Typical Applications

- Used fluid receiver
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube centers
- Fleet service facilities
- Service shops

Typical Fluids Handled

- Used oil–Oil King
- Used antifreeze–Coolant King

Ordering Information

Oil King Oil Receiver	
238866	25 gal (95 l) Polyethylene tank with used-filter tray, tool holders and sight gauge. Includes all hardware for topside evacuation or bottom drain*. Instruction manual 308667
Coolant King Anti-Freeze Receiver	
248632	25 gal (95 l) Polyethylene tank with used-filter tray, tool holders and sight gauge. Includes all hardware for topside evacuation or bottom drain*

** Must use 224873 for topside evacuation. Must ship via truck.*

248632

Oil Ace

- Easy to drain using shop air pressure
- Large 24 gallon capacity
- Large offset collection pan with screen

Typical Applications

- Pressurized used oil receiver
- Automotive dealerships
- Heavy-duty dealerships
- Service shops
- Fast lube centers
- Fleet service facilities

Typical Fluids Handled

- Used oil

Ordering Information

Oil Ace	
119577	24 gal (90 l) Steel-tank Pressurized Oil Drain

119577

Oil Receivers and Drains

Fluid Reclaim Packages and Accessories

Ordering Information

16 gal (60 l) Used-Oil Receiver with drum	
239301	Use with evacuation kit 240832. Instruction manual 306449
16 gal (60 l) Used-Oil Receiver without drum	
239302	Instruction manual 306449
Funnel Kit	
243650	Use with 238866, 239301, 239302 and 248632. Includes tray and pipe
Wall-Mounted Funnel Drain	
154616	Use with Pedestal Receiver 225272 to open automatic check-valve and drain used oil through wall to waste tank. Drain has 1-1/4 npt(f) outlet
Drum-Mounted Funnel Drain	
156789	Use with Pedestal Receiver (225272) to open automatic check-valve and drain used oil into standard drum. Funnel drain has 2 npt bung fitting for use with 55 gal (210 l) or 16 gal (60 l) drums, or 275 gallon (1,100 l) tanks
ATF Drain Funnel	
208009	Use with Pedestal Receiver (225272) to extend funnel reach. Use for draining transmissions. (Not equipped with drain plug.) 16 in x 24 1/2 in
Rolling Used-Oil Receiver	
218969	Specially designed for car and truck fast-lube facilities where speed and mobility are important. Adjustable steel rollers fit track widths of 39 in (99 cm) to 46 inches (117 cm), with a minimum running width of 2-1/2 in (63.5 mm). Front and rear drain fittings allow use of two drains on a single track, permitting two receivers to be drained simultaneously. Instruction manual 307727. Unit includes 30 gal (114 l) steel tank, 1-1/2 npt drain valve (108204), 1-1/2 npt quick coupler (108202) and 1-1/2 npt coupler cap. Dimensions: 24 in (61 cm) wide; 33 in (84 cm) long; 11 in (28 cm) deep; 3 in (7.6 cm) diameter wheels. 1-1/2 in drain hose–see manual provided
Narrow Rolling Used-Oil Receiver	
235346	Same as 218969 above, except track width range is from 34.2 in (87 cm) to 42.2 in (108 cm). 27 gal (102 l) capacity. Instruction manual 307727. See accessories on page 101
Big Hauler™ Truck Drain	
244055	Specially-designed for truck maintenance facilities, the Big Hauler Truck Drain boasts a large capacity and easy maneuverability. Dimensions: 42 in (106.7 cm) long; 30 in (76.2 cm) wide; 9 in (22.9 cm) deep. Capacity: 26 gallons (98 l). Instruction manual 309194. Gravity drain valve at bottom of unit allows for easy drain access. 3/4 in npt outlet can also be used with 224873 for diaphragm evacuation. 240832 can be ordered separately for existing diaphragm pump evacuation systems. Instruction manual 308719

239301

244055

208009

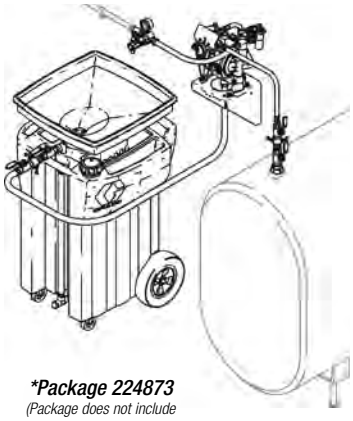
218969

Oil Evacuation

Fluid Reclaim Packages and Accessories

Packages for Used-Oil Evacuation with Air-Operated Diaphragm Pumps

Wall-Mounted Packages	
24E166	Includes: 1050A (1 in) diaphragm pump (647731), wall bracket (24C637), air installation kits (240684), fluid installation kits (240685), drum style adapter kits (240832) *NOTE: Used-oil receivers are not included and must be ordered separately. See instruction manual 313597 for more information.*
224873	Includes: 716 (3/4 in) diaphragm pump (241906), wall bracket (224835), air installation kits, fluid installation kits (240685), drum style adapter kits (240832) *NOTE: Used-oil receivers are not included and must be ordered separately.*
Stationary Gear-Oil Evacuation Systems with 716 or 1050 Diaphragm Pump	
System evacuates lube from differential case using suction generated by a diaphragm pump. Nylon tubes ranging in size from 3/16 in OD to 1/2 in OD are included to fit through sight plug to completely drain the case. Evacuated gear lube is then pumped to waste tank. Piping and waste tank not included. Systems are fully-groundable and bondable for safe transfer of used oil	
224955	Includes: 716 diaphragm pump (241906), air control kit (110149), mounting kit (224759), swivel union (157785), hose coupler (111474),suction hose/wand** (221146) and control valve** (220969) ***Order additional suction hose/wand (221146) and additional control valve (220969) for each additional suction point.* *Note: Order grounding clamp (222011) or use locally-supplied grounding wires and clamps in accordance with applicable codes.*
24E167	Includes: UL-listed 1050A diaphragm pump (647731), air control kit, hose and fitting kit (222149), evacuation, suction hose/wand** (221146) and wall bracket (24C637) ***Order additional suction hose/wand 221146 and additional control valve 220969 for each additional suction point.* *Note: Order grounding clamp 222011 or use locally-supplied grounding wires and clamps in accordance with applicable codes.* *See instruction manual 313597 for more information.*
Port-Evacuation Pump	
223695	Port-Evacuation allows fast, clean withdrawal of gear lube, ATF, anti-freeze, and related fluids. Includes: 716 diaphragm pump (241906), mounting kit with 10 ft (3 m) suction hose (223697) which attaches to wands of four different diameters (suction wand kit, 223696): 1/2 in (12.7 mm); 3/8 in (9.5 mm); 1/4 in (6.4 mm), and 3/16 in (4.7 mm). Instruction manual 308035
Suction Wand Kits	
223696	15 in (38.1 cm)
224762	48 in (121.9 cm)



Package 224873
(Package does not include 238866 receiver or tank)

223695

Used-Oil Handling Accessories

4-Way Evacuation Valve	
120581	1' npt (f) 4-way evacuation valve
120601	1.5" npt (f) 4-way evacuation valve
Tandem Drain Kit	
218970	Tandem drain kit connects two rolling receivers for flow-through draining operation. Kit includes connector hose, shut-off valve, pipe nipple, and quick-connect nipple. Instruction manual 307727
108491	Drain hose kit allows rolling used-oil receiver to be drained directly into the used-oil line. Kit is 24 in (0.6 m) in length with camlock coupler on one end
Swing-Arm Drain Kit	
221007	Used for servicing single rolling used-oil receiver (218969). When used with tandem drain kit (218970) it can service two receivers on a single track. Kit includes swivel elbow (108867), connector hose, dust cap (108203) and male adapter (108202)
Oil Tank Monitor	
116229	Shuts off air to the pump when tank is full.
Accessories for Port-Evac Pump (223695)	
223888	6 ft (1.8 m) suction hose for ATF and anti-freeze. Includes filter screen

120581

218970

116229

223888

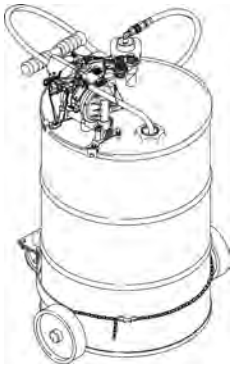
Oil Evacuation

Fluid Reclaim Packages and Accessories

Fluid Reclaim Accessories

243167	U-tube for used-oil drain cart evacuation system. 1/2 npt (mbe)
222011	Grounding clamp for all used-oil handling systems includes 25 ft (7.6 m) grounding wire
Fas-Vac Evacuation Systems	
224667*	Fas-vac evacuation system (without drum) basic system includes 716 diaphragm pump and mounting hardware. Instruction manual 308154
224700*	16 gallon (60 l) system includes pump (224667), dolly (224665), wand storage kit (224666), evacuation hose (224669) and 16 gallon (60 l) drum (111468). Instruction manual 308154
224701*	55 gallon (200 l) system (without drum) includes pump (224667), 55 gallon (200 l) drum truck (111470), wand storage kit (224666) and evacuation hose (224702). Instruction manual 308154
187359	4-way valve 1/2 npt(f) ports

**224759 FLR mounting kit and 110149 FRL must be ordered separately. See instruction manual 308163.*



224701

Hoses, Fittings, and Accessories

Air Filters			
Centrifugal action 1/4, 3/8 and 1/2 npt. (with 20 micron filters); 3/4 npt having 40 micron filters to remove water and foreign particles from air supply			
110146	1/4 npt(fbe)	106148	3/8 npt(fbe)
106149	1/2 npt(fbe)	106150	3/4 npt(fbe)
Automatic Filter Drain			
106151	Float-type drain for automatic emptying of accumulated fluid in a filter assembly. 1/4 npt(m). Fits air filters 106150, 112859, and 217074.		
127711	Float-type drain for automatic emptying of accumulated fluid in a filter assembly. Fits air filter 106148 and 106149.		
Air Regulators			
Provides precision control of outlet air pressure. Feedback principle provides constant pressure to pump regardless of air demand rate and fluctuations in supply pressure. (Additional fittings required except air regulators with installation kits.)			
110318	1/4 npt(fbe)		
110147	1/4 npt(fbe) with gauge		
110234	3/8 npt(fbe)		
109075	3/8 npt(fbe) with gauge		
202858	3/8 npt(m) x 1/2 npsm(f) with gauge		
104266	1/2 npt(fbe)		
244844	1/2 npt(fbe) with gauge		
207755	3/4 npt(fbe)		
244845	3/4 npt(fbe) with gauge		
Installation Kits			
Installation kits include: shut-off valve, regulators, gauges and fittings as necessary for normal installation			
218316	Installation kits for Fast-Flo, Fire-Ball, or Husky 307 and 716 diaphragm pumps		
224512	Installation kits for Mini Fire-Ball 225 and Fire-Ball		
Air Lubricators			
Extends pump life and smooths pump movement by applying measured lubricant to all moving parts within the pump air motor. Control knob and sight window allow adjustment of dispensed lubricant			
214848	1/2 npt(fbe)		
110148	1/4 npt(fbe)		
214847	3/8 npt(fbe)		
214849	3/4 npt(fbe)		

106148

106151

109075

224512

214847

Accessories
Hoses and Fittings

FRL Combination Units	
Each includes filter, regulator, pressure gauge, lubricator and connection fittings	
110149	1/4 npt (fbe)
110150	3/8 npt (fbe)
217072	1/2 npt (fbe)
217073	3/4 npt (fbe)
Bleed-type Air Shut-off Valves	
Closes air inlet to pump and relieves trapped air pressure down line from valve. Recommended for each pump drop line. Note: Be certain to install correctly: if installed backwards air will constantly escape from the valve	
110223	1/4 npt(fbe)
110224	3/8 npt(fbe)
110225	1/2 npt(fbe)
110226	3/4 npt(fbe)
107142	1/2 npt(mxf)
107141	3/4 npt(mxf)
Air Line Shut-off Valves Ball valve-type air line shut-off valve; non-pressure relieving	
208390	1/4 npt(mbe)
208393	3/8 npt(mbe)
208630	1/2 npt(m) x 3/8 npt(f)
109077	3/4 npt(fbe)
118464	1 npt(fbe)
Quick-Connect Coupler	
Permits quick, convenient attachment of air supply hoses	
208536	1/4 npt(fbe)
110198	3/8 npt(f)
110199	1/2 npt(f)
110200	3/4 npt(f)
Quick-Connect Nipple	
Allows quick attachment of air supply hoses to pump motor	
169970	1/4 npt(m)
169967	1/4 npt(f)
169971	3/8 npt(m)
110196	1/2 npt(m)
110197	3/4 npt(m)
Air Needle Valve	
Controls pump speed by restricting air flow to pump or other air-operated equipment	
205090	1/4 npt(f) outlet port; 1/4 npt(m) inlet port
206264	1/8 npt(f) outlet port; 1/4 npt(m) inlet port
Air Pressure Relief Valve	
Prevents pump from operating beyond recommended working pressure by opening at a pre-set maximum air pressure	
103347	90 psi (6 bar)
110065	60 psi (4 bar)

110150

106151

110223

107142

208536

169970

205090

110065

Accessories
Hoses and Fittings

Air Pressure Gauge	
Allows visual check of air pressure being supplied to the pump. Rated to 200 psi (14 bar)	
110319	1/8 npt(m) bottom inlet; black
100960	1/4 npt(m) bottom inlet; black
101180	1/4 npt(m) bottom inlet; chrome
Air manifold	
Supply several pumps from one supply line. Larger port delivery ensures adequate air flow to all pumps	
158990	Four outlet ports; 3/8 npt(f)
601950	Three outlet ports; 1/2 npt(f)
Runaway Valve	
Prevents pump damage by automatically closing the air line to stop the pump when a runaway pump condition occurs due to an empty barrel or hose leak	
224040	3/4 npt(fbe)
Blow Guns	
236211	Safety Blow Gun tip swivels freely and cannot be removed. Tip pressure will not exceed 30 psi (2 bar), adequate for cleaning. Maximum working pressure 150 psi (10 bar). Use with coupler 208536
Tire Inflators	
236205	Heavy-duty Tire Inflator includes 12 in (30 cm) hose with swivel dual-foot chuck and pop-out gauge. Tapered chuck nut fits wheel-cover holes on cars and light trucks. Gauge ranges from 0-120 psi in 2 psi increments. Maximum working pressure 250 psi (18 bar), 1/4 npt(f) inlet
236206	Passenger Car Tire Inflator includes 12 in (30 cm) hose with straight-on chuck and pop-out gauge. Tapered chuck nut fits wheel cover holes on cars and light trucks. Ideal for use on reels. Gauge ranges from 0-90 psi in 2 psi increments. Maximum working pressure 250 psi (18 bar), 1/4 npt(f) inlet
218545	1/4 npt(f) Tire Chuck, durable, full-volume tool for adding/relieving air pressure
Water Valve	
180685	Water/Anti-Freeze Bib is a durable, full-volume dispense nozzle for water, anti-freeze and windshield washer fluid. Nitrile rubber seals with 1/4 npt (f) inlet. Maximum pressure is 100 psi (7 bar)

100960

158990

224040

236211

236206

180685

Heavy-Duty Reinforced Hoses

Heavy-duty reinforced hose for use with grease, oil and undercoating material. Hoses are black, male at both ends. Lubrication hoses listed are grounded for static electrical discharge.

1/4 in ID hoses with maximum pressure rating of 5000 psi (345 bar)		
Part No.	Length	Fittings
109145	12 in (0.3 m)	1/8 in x 1/8 in (4.8 mm x 4.8 mm) with bend restrictor
109146	15 in (0.4 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
109147	24 in (0.6 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
109148	30 in (0.8 m)	1/8 in x 1/8 in (4.8 mm x 4.8 mm) with bend restrictor
109149	48 in (1.2 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109150	72 in (1.8 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109151	12 ft (3.6 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109152	15 ft (4.6 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109153	20 ft (6.1 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)
109154	25 ft (7.6 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109156	35 ft (10.6 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)
109157	40 ft (12.2 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)
109158	50 ft (15.3 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)

Lubrication Hoses

Hoses and Fittings

3/8 in ID hoses with maximum pressure rating of 4000 psi (276 bar)		
Part No.	Length	Fittings
109160	12 in (0.3 m)	1/4 in x 1/2 in (6.4 mm x 12.7 mm)
109161	24 in (.62 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
109162	48 in (1.2 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
109163	72 in (1.8 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
109165	15 ft (4.6 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109170	50 ft (15.3 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)
109169	40 ft (12.2 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)
109170	50 ft (15.3 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)

Lubrication Hoses (Oil)

1/2 in ID hoses with maximum pressure rating of 3000 psi (207 bar)		
Part No.	Length	Fittings
110069	15 in (0.4 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
220598	18 in (0.5 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
220600	54 in (1.4 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
220591	72 in (1.8 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
220590	10 ft (3.1 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
220592	16 ft (4.9 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
220593	20 ft (6.1 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
220608	25 ft (7.6 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
221092	40 ft (12.2 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
221093	50 ft (15.3 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
237861	75 ft (22.9 m)	1/2 in x 3/4 in (12.7 mm x 19.1 mm)
109108	18 in (0.4 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)
109105	72 in (1.8 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)
111010	10 ft (3.0 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)
237865	75 ft (22.9 m)	1/2 in x 1 in (12.7 mm x 25.4 mm)
237866	50 ft (15.2 m)	1/2 in x 1 in (12.7 mm x 25.4 mm)
1 in ID hose rated to maximum pressure of 125 psi (8.7 bar)		
Part No.	Length	Fittings
249058	50 ft (15.2)	1 in x 1 in (25.4 mm x 25.4 mm)
1 in ID hose rated to maximum pressure of 212 psi (14.6 bar)		
Part No.	Length	Fittings
241908	50 ft (15.2 m)	1 in x 1 in (25.4 mm x 25.4 mm)

Air/Water Hoses

Hoses for air, water, anti-freeze and windshield washer fluid. Hoses are red with male fittings at both ends.

Coiled 1/4 in ID hose with maximum pressure rating of 180 psi (12 bar)		
Part No.	Length	Fittings
205600	50 ft (15.3 m)	1/4 in x 50 ft (6.4 mm x 15.3 m)

Fabric-Reinforced 1/4 in ID hoses with maximum pressure rating of 180 psi (12.4 bar)		
Part No.	Length	Fittings
109123	18 in (0.5 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109124	4 ft (1.2 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109125	6 ft (1.8 mm)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109126	10 ft (3.1 m)	1/4 in x 1/4 in (6.4 mm x 6.4 mm)
109127	25 ft (7.6 mm)	1/4 in x 1/2 in (6.4 mm x 12.7 mm)
109128	40 ft (12.2 m)	1/4 in x 1/2 in (6.4 mm x 12.7 mm)
218491	40 ft (12.2 m)	3/8 in x 1/4 in (9.5 mm x 6.4 mm)
3/8 in ID hoses with maximum pressure rating of 180 psi (12.4 bar)		
Part No.	Length	Fittings
204560	18 in (0.5 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
109130	4 ft (1.2 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
203320	6 ft (1.8 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
109131	10 ft (3.1 m)	3/8 in x 3/8 in (9.5 mm x 9.5 mm)
110326	16 ft (4.9 m)	1/4 in x 3/8 in (6.4 mm x 9.5 mm)
109132	25 ft (7.6 m)	3/8 in x 1/2 in (9.5 mm x 12.7 mm)
109133	30 ft (9.2 m)	3/8 in x 1/2 in (9.5 mm x 12.7 mm)
109134	40 ft (12.2 m)	3/8 in x 1/2 in (9.5 mm x 12.7 mm)
109135	60 ft (18.3 m)	3/8 in x 1/2 in (9.5 mm x 12.7 mm)
1/2 in ID hose with maximum pressure rating of 180 psi (12.4 bar)		
Part No.	Length	Fittings
218093	22 in (0.56 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
110046	4 ft (1.2 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
205418	6 ft (1.8 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
214656	10 ft (3.1 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
1/2 in ID hose with maximum pressure rating of 300 psi (20.7 bar)		
Part No.	Length	Fittings
248312	25 ft (7.6 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
248313	50 ft (15.2 m)	1/2 in x 1/2 in (12.7 mm x 12.7 mm)
3/4 in ID hoses with maximum pressure rating of 180 psi (12.4 bar)		
Part No.	Length	Fittings
110047	18 in (0.5 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)
110048	4 ft (1.2 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)
208610	6 ft (1.8 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)
214955	10 ft (3.1 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)
208611	25 ft (7.6 m)	3/4 in x 3/4 in (19.1 mm x 19.1 mm)

Pipe Fittings and Swivels

Hoses and Fittings

Bushing – reducing, standard and expanding					
Part No.	Thread Size (m x f)	Part No.	Thread Size (m x f)	Part No.	Thread Size (m x f)
100030	1/4 in x 1/8 in	159841	3/8 in x 1/4 in	100206	1/2 in x 1/4 in
100081	1/2 in x 3/4 in	100615	3/4 in x 1/4 in	100505	3/4 in x 3/8 in
100896	3/4 in x 1/2 in	100380	1 in x 1/2 in	158586	1 in x 3/4 in
Pipe Adapters					
Part No.	Thread Size (m x f)	Part No.	Thread Size (m x f)	Part No.	Thread Size (m x f)
150171	1/8 in x 1/8 in	159840	1/8 in x 1/4 in	156580	1/8 in x 3/8 in
150287	1/4 in x 3/8 in	159842	1/4 in x 1/2 in	150286	3/8 in x 3/8 in
156022	3/8 in x 1/2 in	168595	1/2 in x 3/4 in		
Street Elbows					
Part No.	Thread Size (m x f)	Part No.	Thread Size (m x f)	Part No.	Thread Size (m x f)
100840	1/4 in x 1/4 in	155699	3/8 in x 3/8 in	158683	1/2 in x 1/2 in
176393	3/4 in x 3/4 in				
Coupling (standard)					
Part No.	Thread Size	Part No.	Thread Size	Part No.	Thread Size
100451	1/8 in	113093	1/4 in	162024	3/8 in
158581	1/2 in	100385	3/4 in	100474	1 in
Hex Nipple (standard and reducing)					
Part No.	Thread Size	Part No.	Thread Size	Part No.	Thread Size
151519	1/4 in x 1/8 in	156971	1/4 in x 1/4 in	156296	3/8 in x 1/8 in
165198	3/8 in x 1/4 in	156849	3/8 in x 3/8 in	162449	1/2 in x 1/4 in
159239	1/2 in x 3/8 in	158491	1/2 in x 1/2 in	194048	3/4 in x 3/8 in
157191	3/4 in x 1/2 in	175013	3/4 in X 3/4 in	158555	1 in x 3/4 in
Square-Head Plug					
Part No.	Thread Size	Part No.	Thread Size	Part No.	Thread Size
111697	1/4 in	100040	3/8 in	100737	1/2 in
104663	3/4 in				
Straight Swivel Adapter*					
Part No.	Rigid (m) x Swivel (f)	Part No.	Rigid (m) x Swivel (f)	Part No.	Rigid (m) x Swivel (f)
208434	1/8 in x 1/4 in	156823	1/4 in x 1/4 in	157705	1/4 in x 3/8 in
155665	3/8 in x 3/8 in	162505	3/8 in x 1/2 in	156684	1/2 in x 1/2 in
158256	1/2 in x 3/8 in	157785	3/4 in x 3/4 in	202965	1 in x 3/4 in
160022	1 in x 1 in				
90º Swivel Adapter*					
Part No.	Rigid (f) x Swivel (f)	Part No.	Rigid (f) x Swivel (f)	Part No.	Rigid (f) x Swivel (f)
157676	1/4 in x 1/4 in	155677	3/8 in x 3/8 in	159801	3/8 in x 1/2 in
157416	1/2 in x 1/2 in	156589	3/4 in x 3/4 in		
Straight Swivel Adapter*					
Part No.	Rigid (f) x Swivel (f)	Part No.	Rigid (f) x Swivel (f)	Part No.	Rigid (f) x Swivel (f)
155570	1/4 in x 1/4 in	159153	3/8 in x 1/4 in	156173	3/8 in x 3/8 in
155653	1/2 in x 1/4 in	161077	1/2 in x 3/8 in	155865	1/2 in x 1/2 in
156172	3/5 in x 3/4 in	158383	1 in x 1 in		
90º Swivel*					
Part No.	Rigid (M) x Swivel (F)	Part No.	Rigid (M) x Swivel (F)	Part No.	Rigid (M) x Swivel (F)
155541	1/4 in x 1/4 in	155495	3/8 in x 1/4 in	155494	3/8 in x 3/8 in
217430	3/8 in x 1/2 in	161037	1/2 in x 3/8 in	155470	1/2 in x 1/2 in
160327	3/4 in x 3/4 in				
45º Swivel Adapter*					
Part No.	Rigid (M) x Swivel (F)	Part No.	Rigid (M) x Swivel (F)	Part No.	Rigid (M) x Swivel (F)
161889	3/8 in x 3/8 in	105281	3/4 in x 3/4 in		

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

Tube and Fittings
Hoses and Fittings

Tube Fittings		
Maximum pressure rating of 3000 psi (207 bar) with appropriate tubing wall thickness		
Tube Union Flow 90º Elbow		
Part No.	Tube OD	-
101012	5/8 in	-
101376	7/8 in	-
Tube Union – Straight		
Part No.	Tube OD	-
101009	5/8 in	-
101340	7/8 in	-
Male Connector		
Part No.	Tube OD	Thread
101339	7/8 in	3/4 npt
Female Connector – Straight		
Part No.	Tube OD	Thread
101008	5/8 in	1/2 npt
Tube Tee with Female Branch		
Part No.	Tube OD	Thread
101013	5/8 in	5/8 npt

NOTE: Consult you local distributor for additional tube-fitting requirements (ie: high-pressure, low-pressure, etc.) and fitting recommendations: Parker; AeroQuip; Weatherhead; Lenz; Crawford; or Imperial Eastmand.

Technical Information

Always use a qualified installer and ensure the installer follows the detailed instructions included with every Graco product.

1. Always use new pipe. Make certain that pipes are clean and free of rust and scale.
2. When cutting pipe remove burrs and chips that may damage dispense valves and meters.
3. Always flush the system with oil before attaching dispense valves and meters.

Air Lines

Main Line	Branch Line	Pump Model
3/4 in or 1 in ID pipe	3/8 in or 1/2 in ID pipe	Fast-Ball; Mini Fire-Ball 225
3/4 in or 1 in ID pipe	1/2 in ID pipe	Fire-Ball

Fluid Lines

This information applies to typical automotive flow rate service requirements

Chassis Grease Lubricant Supply Lines (based upon 5000 psi [345 bar] maximum working pressure)			
Supply Line Length	Supply Pump	Hydraulic Supply Line Tubing	ASTM A53 or A106 Grade "B" – Seamless Pipe (6000 psi [414 bar] forged steel fittings)
Up to 50 feet	50:1 Fire-Ball 300, 425	5/8" OD x .109" Wall Tube	1/2" Schedule 80
50 to 100 feet	50:1 Fire-Ball 300, 425	5/8" OD x .109" Wall Tube	1" Schedule 160
100 to 200 feet	50:1 Fire-Ball 300	N/A	1-1/4" Schedule 160
100 to 200 feet	50:1 Fire-Ball 425	N/A	1-1/2" Schedule 160
200 feet and up	50:1 Fire-Ball 300, 425	N/A	1-1/2" Schedule 160
Motor Oil, Gear Lube, or ATF Lubricant Supply Lines (based upon 1000 psi [69 bar] maximum working pressure)			
Supply Line Length	Supply Pump	Hydraulic Supply Line Tubing	ASTM A53 Butt-Welded Pipe (Class 300 malleable fittings)
Up to 50 feet	5:1 Fire-Ball 300	5/8" OD x .049" Wall Tube	1/2" Schedule 40
Up to 50 feet	10:1 Fire-Ball 425	3/4" OD x .049" Wall Tube	3/4" Schedule 40
50 to 100 feet	5:1 Fire-Ball 300	3/4" OD x .049" Wall Tube	3/4" Schedule 40
50 to 100 feet	10:1 Fire-Ball 425	1" OD x .049" Wall Tube	1" Schedule 40
100 to 200 feet	5:1 Fire-Ball 300	1" OD x .049" Wall Tube	1" Schedule 40
100 to 200 feet	10:1 Fire-Ball 425	1-1/2" OD x .095" Wall Tube	1-1/4" Schedule 40
200 feet and up	5:1 Fire-Ball 300	1-1/2" OD x .095" Wall Tube	1-1/4" Schedule 40
200 feet and up	10:1 Fire-Ball 425	1-1/2" OD x .095" Wall Tube	1-1/4" Schedule 40

Petroleum Management Group
Ordering and Warranty Information

This Price List supersedes all previous price lists dated prior to January 2, 2011.

Prices, discount codes, and family codes subject to change without notice.

$50.00 U.S. net minimum billing, exclusive of application taxes and transportation.

The goods are sold to Distributor EX Works (Incoterms 2000) Graco's premises or the premises of Graco's Supplier. All freight charges, handling, insurance, duty, taxes and other charges are at Distributor's expense, with the following exception: for single orders and/or shipments to USD $2,500 net value or more, Graco will prepay surface freight charges to the U.S. port of exit or the U.S. freight forwarder of Distributor's choice.

All prices are F.O.B. shipping point.

Returns will not be accepted on configured or low demand products built to special customer order. These orders are subject to a cancellation fee.

Graco strives to ship all orders within 48 hours. If you have need for an emergency shipment and your order is received before 2:30 p.m. Central Time, you may request same day shipment.

Graco Inc. reserves the right to correct any typographical errors in this price list.

Possession of this list does not permit any party to purchase any or all of the items listed herein.

Prices, as shown herein, do not include any sales tax, excise tax, or other similar tax which must be added when, as, and if applicable.

This price list does not list parts that are obsolete or discontinued. Always refer to the most recent lists and instruction forms.

GEDI® Website

GEDI stands for Graco Extranet for Distributor Information and is for use exclusively by authorized Graco distributors. This online tool features up-to-the-minute list price, net price, order/product information, product availability and shipping information. Access to this portion of the **www.graco.com** website requires your Graco account number and the assignment of a GEDI password.

If you would like to access GEDI, visit **www.graco.com** for easy online instructions.

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- Quantity available by line item
- Part description

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Standard Graco Warranty

1 Year Warranty Policy

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

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

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

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

Graco Petroleum Management Group Equipment Extended Warranty

Graco warrants all equipment referenced in this document that is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. Graco will, for a period as defined in the table below from the date of sale, repair or replace equipment covered by this warranty and determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

	5 Year Warranty	7 Year Warranty	10 Year Warranty
Oil/Grease Pumps and Packages	LD Pumps	Mini-Fireball 225	Fireball 425
	Fastball / Fast-Flo	Fireball 300	NXT Pumps
	AODD		
Electronic Meters and Valves **LD Meter Electronics (2 years) All other meter series electronics (3 years)**	LD Meters	Matrix Meters	
		SD Electronic Meters	
		EM6/EM12 Electronic Meters	
		IM5/IM6 Electronic Meters	
		SDI15 Electronic Meters	
		SDV15 Valve	
		XDV20 Valve	
Hose Reels and Packages All reel series wear parts, including but not limited to: hose, swivel seats, roller guides (12 months); springs (36 months). All bare hose reels, all components (12 months).	LD Series Reels and Packages	SD Series Reels and Packages	
		XD Series Reels and Packages	
Accessories	Oil King		
	Coolant King		
	Oil Ace		

Equipment or components not identified are not covered by this warranty. Complete part number list available by request.

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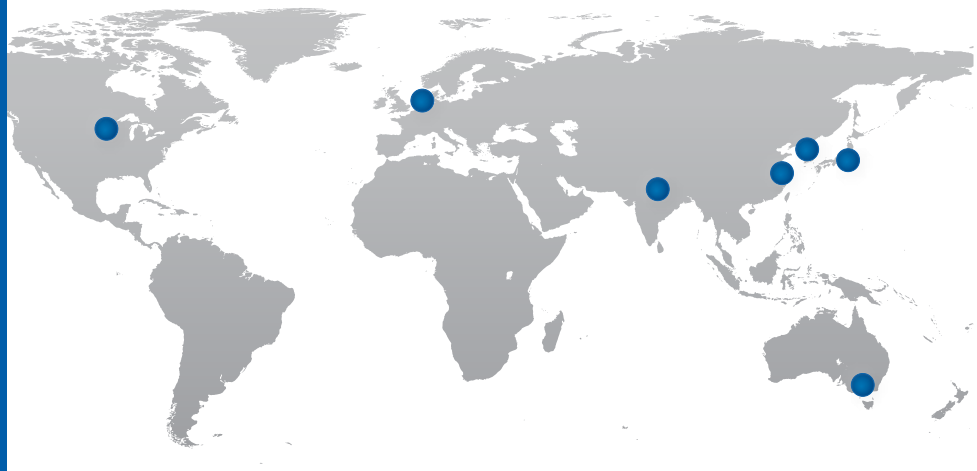

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