

SaniForce[™]

Piston Pumps for the Sanitary Industry



Improve serviceability and increase efficiency

- Maximum flow rates ranging from 5.7 to 53 lpm (1.5 to 14 gpm)
- Available in double-ball or priming piston designs
- Ideal for most food-related, cosmetic and personal care applications
- Bin length, drum length and stubby options available

Ordering Information

SANIFORCE 2:1 PISTON PUMP

Part Number	Pump Type	Pump Length: Inlet to Outlet	Pump Inlet Type	Packings	Weight
24N300	Double Ball	Long - 113.0 cm (44.5 in)	5.1 cm (2 in) OD	UHMWPE, FKM	11.8 kg (26 lbs)
24N344	Double Ball	Long - 113.0 cm (44.5 in)	5.1 cm (2 in) OD	PTFE, FKM	11.8 kg (26 lbs)
24R046	Double Ball	Standard Drum - 95.2 cm (37.5 in)	5.1 cm (2 in) OD	UHMWPE, FKM	10.9 kg (24 lbs)
24R047	Double Ball	Standard Drum - 95.2 cm (37.5 in)	5.1 cm (2 in) OD	PTFE, FKM	10.9 kg (24 lbs)

SANIFORCE 6:1 PISTON PUMP

Part Number	Pump Type	Pump Length: Inlet to Outlet	Pump Inlet Type	Packings	Weight
24E840	Double Ball	Drum Length 92.4 cm (36.4 in)	5.3 cm (2.1 in) Slotted	Buna, Nylon, Nitrile & Polychloroprene	16.7 kg (36.9 lb)
24G740	Double Ball	Drum Length, Ram Pkg 92.4 cm (36.4 in)	5.3 cm (2.1 in) Slotted with flange for 15.2cm (6 in) Clamp	Buna, Nylon, Nitrile & Polychloroprene	17 kg (38 lb)
24E839	Double Ball	Drum Length 92.4 cm (36.4 in)	5.3 cm (2.1 in) Slotted	PTFE	16.7 kg (36.9 lb)
24E838	Double Ball	Stubby 38.3 cm (15.1 in)	6.3 cm (2.5 in) in Clamp	Buna, UHMWPE & Polychloroprene	13.1 kg (28.9 lb)
24E837	Double Ball	Stubby 38.3 cm (15.1 in)	6.3 cm (2.5 in) in Clamp	PTFE	16.7 kg (36.9 lb)
24E836	Priming Piston	Stubby 40.6 cm (16.0 in)	5.8 cm (2.3 in) Priming Piston	Buna, Nylon, Nitrile & Polychloroprene	15.3 kg (33.8 lb)
24G739	Priming Piston	Stubby, Ram Package 40.6 cm (16.0 in)	5.8 cm (2.3 in) Priming Piston with flange for 15.2 cm (6 in) Clamp	Buna, Nylon, Nitrile & Polychloroprene	16 kg (35 lb)
24F942	Double Ball	Bin Length - 124 cm (48.9 in)	5.3 cm (2.1 in) Slotted	Buna, Nylon, Nitrile & Polychloroprene	18 kg (39.7 lb)

SANIFORCE 5:1 PISTON PUMP

Part Number	Pump Type	Pump Length: Inlet to Outlet	Pump Inlet Type	Packings	Weight
24F195	Double Ball	Drum Length 93.4 cm (36.8 in)	10.2 cm (4 in) Slotted	Buna, PTFE, UHMWPE & FKM	54.1 kg (119 lb)
24E833	Double Ball	Stubby 51.8 cm (20.4 in)	10.2 cm (4 in) Slotted	Buna, PTFE, UHMWPE & FKM	41.4 kg (91.3 lb)
24G742	Double Ball	Stubby, Ram Package 51.8 cm (20.4 in)	10.2 cm (4 in) Slotted with flange for 15.2 cm (6 in) Clamp	Buna, PTFE, UHMWPE & FKM	43 kg (95 lb)
24E831	Priming Piston	Drum Length 65.7 cm (25.9 in)	10.2 cm (4 in) Priming Piston	Buna, PTFE, UHMWPE, Polychloroprene, Nylon & FKM	43.2 kg (95.3 lb)
24G741	Priming Piston	Drum Length, Ram Package 65.7 cm (25.9 in)	10.2 cm (4 in) Priming Piston with flange for 15.2 cm (6 in) Clamp	Buna, PTFE, UHMWPE, Polychloroprene, Nylon & FKM	45 kg (99 lb)
24F196	Double Ball	Stubby with Inlet Elbow 64.0 cm (25.2 in)	90° elbow, 6.3cm (2.5 in) Tri-clamp	Buna, FKM, PTFE & UHMWPE	42.2 kg (93.1 lb)
24F197	Double Ball	Stubby - 49.0 cm (19.3 in)	10.2 cm (4 in) Slotted	Buna, PTFE, Silicone, FKM & UHMWPE	41.1 kg (90.6 lb)

SANIFORCE 12:1 PISTON PUMP

Part Number	Pump Type	Pump Length: Inlet to Outlet	Pump Inlet Type	Packings	Weight
24F625	Priming Piston	Stubby, Ram Package - 40.8 cm (16.1 in)	10.4 cm (4.1 in) tube with flange for 15.2 cm (6 in) Tri-clamp	Acetal, PTFE, Nitrile and UHMWPE	55 kg (122 lb)
24F626*	Priming Piston	Stubby, Ram Package - 40.8 cm (16.1 in)	10.4 cm (4.1 in) tube with flange for 15.2 cm (6 in) Tri-clamp	Acetal, PTFE, Nitrile and UHMWPE	55 kg (122 lb)

OD = Outside Diameter / *For use with sticky viscous material

Technical Specifications

	SaniForce 2:1 Piston Pump	SaniForce 6:1 Piston Pump	SaniForce 5:1 Piston Pump	SaniForce 12:1 Piston Pump
Fluid to air pressure ratio	2.5:1	6:1	5:1	12:1
Max. fluid pressure	17 bar (250 psi, 1.7 MPa)	44.8 bar (650 psi, 4.4 MPa)	28 bar (410 psi, 2.8 MPa)	100.4 bar (1450 psi, 10.1 MPa)
Max. fluid flow at 60 cpm	5.7 lpm (1.5 gpm)	15.1 lpm (4.0 gpm)	53 lpm (14.0 gpm)	32 lpm (8.5 gpm)
Air consumption at 60 cpm	6 cfm at 7 bar (100 psi, 0.7 MPa)	32 cfm at 7 bar (100 psi, 0.7 MPa)	75 cfm at 5.5 bar (80 psi, 0.5 MPa)	130 cfm at 100 psi (7 bar, 0.7 MPa)
Volume per cycle	0.095 l (0.025 gal)	0.25 l (0.067 gal)	0.87 l (0.23 gal)	0.14 gal (0.54 l)
Max. operating temp. (fluid)	82°C (180°F)	121°C (250°F)	60°C (140°F)	160°F (71°C)
Max. ambient temp. (air motor)	48.8°C (120°F)	48.8°C (120°F)	48.8°C (120°F)	120°F (48.8°C)
Max. size pumpable solids	3.2 mm (1/8 in)	3.2 mm (1/8 in)	6.4 mm (1/4 in)	1/4 in (6.4 mm)
Max. air input pressure	7.0 bar (100 psi, 0.7 MPa)	7.0 bar (100 psi, 0.7 MPa)	5.5 bar (80 psi, 0.55 MPa)	100 psi (7 bar, 0.7 MPa)
Air inlet size	3/8 npt (f)	1/2 npt (f)	1/2 npt (f)	1/2 npt (f)
Fluid outlet size	2.5 cm (1.0 in) Tri-Clamp	3.8 cm (1.5 in) Tri-Clamp	5.1 cm (2.0 in) Tri-Clamp	2.0 in (5.1 cm) Tri-Clamp
Instruction manual	3A2977	3A0733	3A0734	3A0735

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Graco is certified ISO 9001.

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