



# SaniForce<sup>®</sup>

Piston Pumps for the Sanitary Industry



unleash the  
**POWER**

## Improve serviceability and increase efficiency

- Maximum flow rates ranging from 1.5 to 14 gpm (5.7 to 53 lpm)
- 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

PROVEN QUALITY. LEADING TECHNOLOGY.

# 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 - 44.5 in (113.0 cm)	2 in (5.1 cm) OD	UHMWPE, FKM	26 lbs (11.8 kg)
24N344	Double Ball	Long - 44.5 in (113.0 cm)	2 in (5.1 cm) OD	PTFE, FKM	26 lbs (11.8 kg)
24R046	Double Ball	Standard Drum - 37.5 in (95.2 cm)	2 in (5.1 cm) OD	UHMWPE, FKM	24 lbs (10.9 kg)
24R047	Double Ball	Standard Drum - 37.5 in (95.2 cm)	2 in (5.1 cm) OD	PTFE, FKM	24 lbs (10.9 kg)

## SANIFORCE 6:1 PISTON PUMP

Part Number	Pump Type	Pump Length: Inlet to Outlet	Pump Inlet Type	Packings	Weight
24E840	Double Ball	Drum Length - 36.4 in (92.4 cm)	2.1 in (5.3 cm) OD	Buna, Nylon, Nitrile & Polychloroprene	36.9 lb (16.7 kg)
24G740	Double Ball	Drum Length, Ram Pkg - 36.4 in (92.4 cm)	6 in (15.2 cm) Tri-Clamp	Buna, Nylon, Nitrile & Polychloroprene	38 lb (17 kg)
24E839	Double Ball	Drum Length - 36.4 in (92.4 cm)	2.1 in (5.3 cm) OD	PTFE	36.9 lb (16.7 kg)
24E838	Double Ball	Stubby - 15.1 in (38.3 cm)	2.5 in (6.3 cm) Tri-Clamp	Buna, UHMWPE & Polychloroprene	28.9 lb (13.1 kg)
24E837	Double Ball	Stubby - 15.1 in (38.3 cm)	2.5 in (6.3 cm) Tri-Clamp	PTFE	36.9 lb (16.7 kg)
24E836	Priming Piston	Stubby - 16.0 in (40.6 cm)	2.5 in (6.3 cm) OD	Buna, Nylon, Nitrile & Polychloroprene	33.8 lb (16.8 kg)
24G739	Priming Piston	Stubby, Ram Package - 16.0 (40.6 cm)	6 in (15.2 cm) Tri-Clamp	Buna, Nylon, Nitrile & Polychloroprene	35 lb (16 kg)
24F942	Double Ball	Bin Length - 48.5 in (123.0 cm)	2.1 in (5.3 cm) OD	Buna, Nylon, Nitrile & Polychloroprene	39.7 lb (18 kg)

## SANIFORCE 5:1 PISTON PUMP

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

## 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 - 16.1 in (40.8 cm)	6 in (15.2 cm) Tri-Clamp	Acetal, PTFE, Nitrile and UHMWPE	122 lb (55 kg)
24F626*	Priming Piston	Stubby, Ram Package - 16.1 in (40.8 cm)	6 in (15.2 cm) Tri-Clamp	Acetal, PTFE, Nitrile and UHMWPE	122 lb (55 kg)

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	200 psi (14 bar, 1.4 MPa)	600 psi (41 bar, 4.1 MPa)	400 psi (28 bar, 2.8 MPa)	1200 psi (83 bar, 8.3 MPa)
Max. fluid flow at 60 cpm	1.5 gpm (5.7 lpm)	4.0 gpm (15.1 lpm)	14.0 gpm (53 lpm)	8.5 gpm (32 lpm)
Air consumption at 60 cpm	11 cfm at 100 psi (7bar, 0.7 MPa)	29 cfm at 100 psi (7 bar, 0.7 MPa)	69 cfm at 80 psi (5.5 bar, 0.5 MPa)	116 cfm at 100 psi (7 bar, 0.7 MPa)
Volume per cycle	0.041 gal (0.15 l)	0.067 gal (0.25 l)	0.23 gal (0.87 l)	0.14 gal (0.54 l)
Max. operating temp. (fluid)	180°F (82°C)	250°F (121°C)	140°F (60°C)	160°F (71°C)
Max. operating temp. (air motor)	120°F (48.8°C)	120°F (48.8°C)	120°F (48.8°C)	120°F (48.8°C)
Max. size pumpable solids	0.13 in (0.32 cm)	0.13 in (0.32 cm)	0.25 in (0.64 cm)	0.25 in (0.64 cm)
Max. air input pressure	100 psi (7.0 bar, 0.7 MPa)	100 psi (7.0 bar, 0.7 MPa)	80 psi (5.5 bar, 0.55 MPa)	100 psi (7 bar, 0.7 MPa)
Air inlet size	3/8 NPT	1/2 npsm(f)	1/2 npsm(f)	1/2 npsm(f)
Fluid outlet size	1.0 in (2.5 cm) Tri-Clamp	1.5 in (3.8 cm) Tri-Clamp	2.0 in (5.1 cm) Tri-Clamp	2.0 in (5.1 cm) Tri-Clamp
Fluid inlet	2 in (5.1 cm) OD	1.5 in (3.8 cm) Tri-Clamp (select sizes)	2.5 in (6.3 cm) Tri-Clamp (24F196 only)	6.0 in (15.2 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.

Call today for product information or to request a demonstration.

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