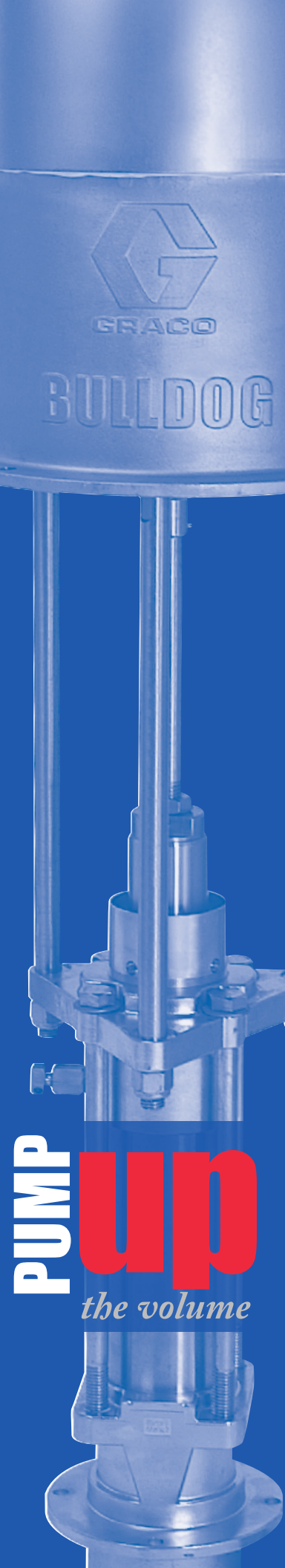




Graco's Sanitary Piston Pumps



Bulldog



Senator



Monark

PUMP
up
the volume

motralec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX
Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48
Demande de prix / e-mail : service-commercial@motralec.com
www.motralec.com

PROVEN QUALITY. LEADING TECHNOLOGY

Ordering Information

MONARK 5:1 PISTON PUMP

Part Number	Pump Type	Pump Length Description	Pump Inlet Type	Packings	Weight
207550	Double Ball	Drum Length	1.44 in (36.6 mm) Slotted	FDA Buna, FDA Nylon, Nitrile, & Polychloroprene	33.0 lb (14.9 kg)
903035	Double Ball	Drum Length	1.44 in (36.6 mm) Slotted	PTFE	36.3 lb (16.4 kg)
954383	Double Ball	Stubby	2.5 in (63.5 mm) Clamp	Buna, UHMWPE & Polychloroprene	25.0 lb (11.3 kg)
965520	Double Ball	Stubby	2.5 in (63.5 mm) Clamp	PTFE	33.0 lb (14.9 kg)
952793	Priming Piston	Stubby	2.3 in (58.4 mm) Priming Piston	Buna, Nylon, Nitrile & Polychloroprene	29.9 lb(13.6 kg)

SENATOR 4:1 PISTON PUMP

Part Number	Pump Type	Pump Length Description	Pump Inlet Type	Packings	Weight
948292	Double Ball	Drum Length (bung mount)	4 in (10.2 cm) Slotted	Buna, PTFE, UHMWPE & FKM	127 lb (57.6 kg)
948649	Double Ball	Stubby (Ram Package)	4 in (10.2 cm) Slotted	Buna, PTFE, UHMWPE & FKM	95 lb (43.0 kg)
570019	Priming Piston	Drum Length (Ram Package)	4 in (10.2 cm) Priming Piston	Buna, PTFE, UHMWPE Polychloroprene, Nylon & FKM	95 lb (43.0 kg)
949080	Double Ball	Stubby	90 degree elbow 3 in (7.6 cm) Clamp	Buna, FKM, PTFE & UHMWPE	83 lb (37.6 kg)
949704	Double Ball	Stubby (BES mount)	4 in (10.2 cm) Clamp	Buna, PTFE, Silicone, FKM & UHMWPE	86 lb (39.0 kg)

BULLDOG 10:1 PISTON PUMP

Part Number	Pump Type	Pump Length Description	Pump Inlet Type	Packings	Weight
949444	Priming Piston	Stubby (Ram Package)	4 in (10.2 cm) Priming Piston	Acetal, PTFE, Nitrile and UHMWPE	101 lb (46 kg)

Technical Specifications

	Monark 5:1 Piston Pump	Senator 4:1 Piston Pump	Bulldog 10:1 Piston Pump
Fluid to air pressure ratio	5:1	4:1	10:1
Maximum fluid pressure	600 psi (41 bar, 4.1 MPa)	430 psi (30 bar, 3.0 MPa)	1000 psi (70 bar, 7 MPa)
Maximum fluid flow at 100 cpm	4 gpm (15.1 lpm)	23 gpm (87 lpm)	13.3 gpm (50.3 lpm)
Maximum fluid flow at 60 cpm	2.3 gpm (8.7 lpm)	14 gpm (53 lpm)	8.5 gpm (32 lpm)
Air consumption at 60 cpm	8 cfm at 100 psi (7 bar, 0.7 MPa)	40 cfm at 100 psi (7 bar, 0.7 MPa)	120 cfm at 100 psi (7 bar, 0.7 MPa)
Volume per cycle	0.035 gal (0.13 l)	0.23 gal (0.87 l)	0.14 gal (0.54 l)
Maximum operating temperature (fluid)	250°F (121°C)	140°F (60°C)	160°F (71°C)
Maximum operating temperature (air motor)	200°F (93°C)	200°F (93°C)	200°F (93°C)
Maximum size pumpable solids	0.13 in (0.32 cm)	0.25 in (0.64 cm)	0.25 in (0.64 cm)
Maximum air input pressure	120 psi (8.2 bar, 0.8 MPa)	100 psi (7 bar, 0.7 MPa)	100 psi (7 bar, 0.7 MPa)
Air inlet size	3/8 npt(f)	3/4 npsm(f)	3/4 npsm(f)
Fluid outlet size	1-1/2 in (38 mm) Tri-Clamp	2 in (50.8 mm) Tri-Clamp	1-1/2 in npt(f)
Fluid inlet	1-1/2 in (38 mm) Tri-Clamp*	2.5 in Tri-Clamp (949080 only)	4 in (10.2 cm)
Flyer	338591	338591	338591
Instruction manual	307056	308076	306916

*Select sizes

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