



Graco's Sanitary Piston Pumps

- Ideal for most food-related, cosmetic and pharmaceutical applications
- Three models with flow rates ranging from 4 to 23 gpm
- Available in double-ball and priming piston designs
- Perfect for fluid transfer and supply of low to high viscosity fluids



Bulldog



Senator



Monark

For more information visit www.graco.com/sanitary
or call **877-844-7226**

PROVEN QUALITY. LEADING TECHNOLOGY

PUMP
up
the volume

Technical Specifications

MONARK® 5:1 BARE PUMP

Fluid to air pressure ratio 5:1
 Maximum fluid pressure. 600 psi (41 bar, 4.1 MPa)
 Maximum fluid flow at 100 cpm 4 gpm (15.1 lpm)
 Maximum fluid flow at 60 cpm 2.3 gpm (8.7 lpm)
 Air consumption at 100 psi. ~ 8 scfm (0.224 m3/gpm)
 Volume per cycle 0.035 gal (0.13 l)
 Maximum operating temperature(fluid) 250°F (121°C)
 Maximum operating temperature(air motor) 200°F (93°C)
 Maximum size pumpable solids 0.13 in (0.32 cm)
 Maximum air input pressure 120 psi (8.2 bar, 0.8 MPa)
 Air inlet size. 3/8 npt(f)
 Fluid outlet size 1-1/2 in (38 mm) Tri-Clamp
 Instruction Manual 307056

SENATOR® 4:1 BARE PUMP

Fluid to air pressure ratio 4:1
 Maximum fluid pressure. 430 psi (30 bar, 3.0 MPa)
 Maximum fluid flow at 100 cpm 23 gpm (87 lpm)
 Maximum fluid flow at 60 cpm 14 gpm (53 lpm)
 Air consumption at 70 psi. ~1.8 scfm per gpm (0.48 MPa, 4.8 bar)
 Volume per cycle 0.23 gal (0.87 l)
 Maximum operating temperature(fluid) 140°F (60°C)
 Maximum operating temperature(air motor) 200°F (93°C)
 Maximum size pumpable solids 0.25 in (0.64 cm)
 Maximum air input pressure 100 psi (7 bar, 0.7 MPa)
 Air inlet size. 3/4 npsm(f)
 Fluid outlet size 2 in (50.8 mm) Tri-Clamp
 Fluid inlet (949080 only). 2.5 in Tri-Clamp
 Instruction Manual 308076

BULLDOG® 10:1 BARE PUMP

Fluid to air pressure ratio 10:1
 Maximum fluid pressure. 1000 psi (70 bar, 7 MPa)
 Maximum fluid flow at 100 cpm 13.3 gpm (50.3 lpm)
 Maximum fluid flow at 60 cpm 8.5 gpm (32 lpm)
 Volume per cycle 0.14 gal (0.54 l)
 Maximum operating temperature(fluid) 160°F (71°C)
 Maximum operating temperature(air motor) 200°F (93°C)
 Maximum size pumpable solids 0.25 in (0.64 cm)
 Maximum air input pressure 100 psi (7 bar, 0.7 Mpa)
 Air consumption at 70 psi. ~3.5 scfm/gal
 (4.8 bar, 0.48 MPa)
 Air inlet size. 3/4 npsm(f)
 Fluid outlet size 1-1/2 in npt(f)
 Fluid inlet size 4 in (10.2 cm)
 Instruction Manual 306916

Ordering Information

MONARK 5:1 BARE PUMP

Part Number	Pump Type	Pump Length Description	Pump Inlet Type	Packings	Weight
207550	Double	Drum	1.44 in	FDA Buna	33.0 lb
	Ball	Length	(36.6 mm) Slotted	FDA Nylon Nitrile	(14.9kg)
903035	Double	Drum	1.44 in	PTFE	36.3 lb
	Ball	Length	(36.6 mm) Slotted		(16.4 kg)
954383	Double	Stubby	2.5 in	Buna, UHMWPE	25.0 lb
	Ball		(63.5 mm) Clamp	& Neoprene	(11.3 kg)
965520	Double	Stubby	2.5 in	PTFE	33.0 lb
	Ball		(63.5 mm) Clamp		(14.9 kg)
952793	Priming	Stubby	2.3 in (58.4 mm)	Buna, Nitrile	24.4 lb
	Piston		Priming Piston	& Neoprene	(11.0 kg)

SENATOR 4:1 BARE PUMP

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

BULLDOG 10:1 BARE PUMP

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

Additional Pumps and Packages

Graco offers the most complete range of pumps, packages and systems to meet all of your application and cleaning requirements. Whether the material you use comes in pails, drums, bins, totes or tankers, Graco pumps and cleaning systems are designed to provide years of reliable service!

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