

Check-Mate® 2100

Priming Piston Fluid Pump

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Check-Mate 2100 provides flow rates to 7.5 gpm (28.4 lpm) and operating pressures to 3900 psi (269 bar, 26.9 MPa).

Features and Benefits

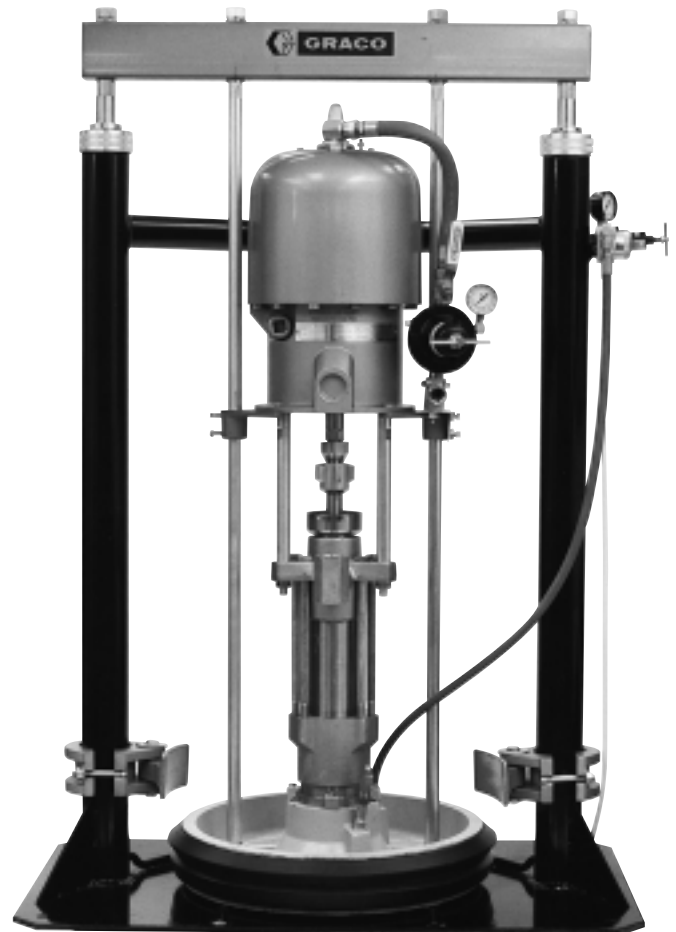
- Available in Severe Duty Carbon Steel and Stainless Steel models
- High flow and fluid pressures increase production
- High output per cycle reduces wear for longer life and lower repair costs
- Exclusive air valve design decreases changeover time and minimizes icing
- Floating piston seal and priming plate improve pump loading of high viscosity materials

Typical Applications

- Transferring sealants or adhesives to multiple operator dispensing stations
- Transferring viscous chemicals
- Feeding high volume applicators, multiple meters or proportioners
- Transferring offset inks to printing presses

Typical Fluids Handled

- Acrylics
- Butyl
- Caulking compounds
- Epoxy
- Inks
- Lubricants
- PVC sealers
- Silicones
- Urethanes



235836
24:1 King

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Technical Specifications

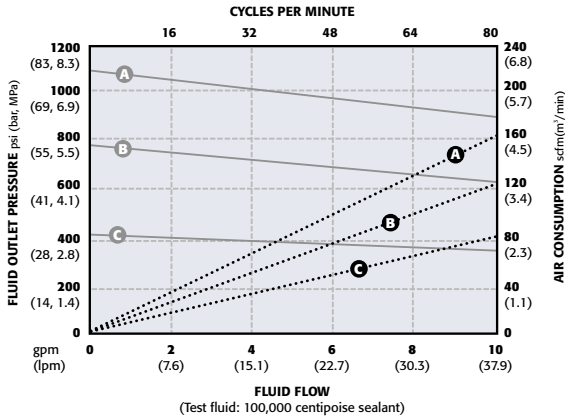
Maximum air inlet pressure	100 psi (7 bar, 0.7 MPa)
Air inlet	3/4 npsm(f)
Fluid outlet	1-1/2 npt(m)
Packings	
Throat and intake	UHMWPE and Teflon®
Piston	UHMWPE
Wetted parts	
CS lower	CS, zinc, nickel, SST, iron, Delrin®, Teflon, UHMWPE
SST lower	SST, Delrin, Teflon, UHMWPE
Maximum flow at 60 cpm75 gpm (28.4 lpm)
Air motor piston diameter	12.64 in. (321mm)
Weight	
Premier CM 2100248 lbs (113 kg)
King CM 2100160 lbs (73 kg)
Bulldog CM 2100142 lbs (65 kg)
Check-Mate 2100 instruction manuals	
All CS Models	308149
All SST Models	308150

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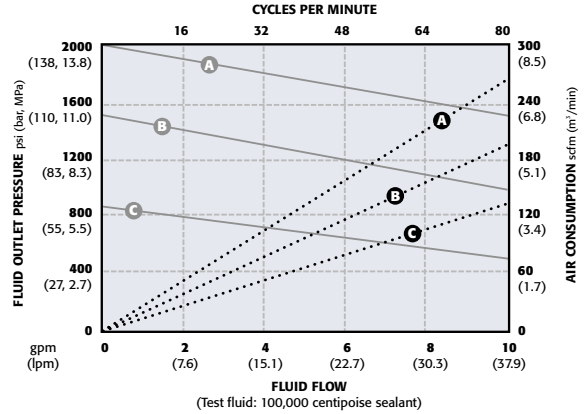
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Performance Chart for 12:1 Bulldog Pump



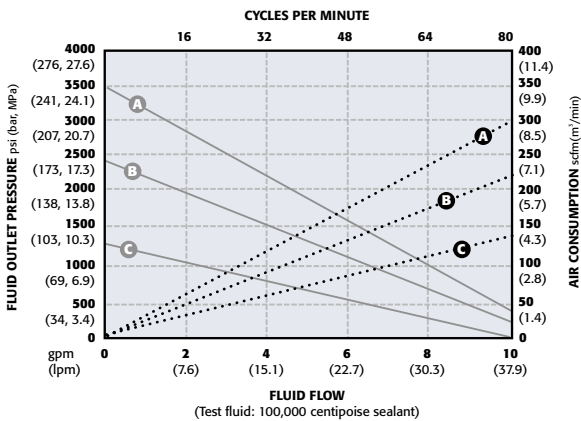
AIR PRESSURES	LEGEND
(A) = @ 100 psi (7.0 bar, 0.7 MPa)	Air Consumption
(B) = @ 70 psi (4.8 bar, 0.5 MPa)	Fluid Flow _____
(C) = @ 40 psi (2.8 bar, 0.3 MPa)	

Performance Chart for 24:1 King Pump



AIR PRESSURES	LEGEND
(A) = @ 90 psi (6.2 bar, 0.6 MPa)	Air Consumption
(B) = @ 70 psi (4.8 bar, 0.5 MPa)	Fluid Flow _____
(C) = @ 40 psi (2.8 bar, 0.3 MPa)	

Performance Chart for 39:1 Premier



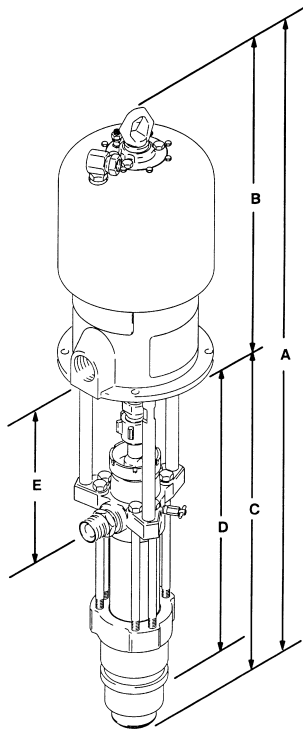
AIR PRESSURES	LEGEND
(A) = @ 100 psi (7 bar, 0.7 MPa)	Air Consumption
(B) = @ 70 psi (4.8 bar, 0.5 MPa)	Fluid Flow _____
(C) = @ 40 psi (2.8 bar, 0.3 MPa)	



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Dimensions - Bare Pumps

Model	Motor	A	B	C	D	E
222940	39:1 Premier	60.31 in. (1531 mm)	16.89 in. (429 mm)	43.41 in. (1102 mm)	26.17 in. (665 mm)	22.26 in. (565 mm)
222835	24:1 King	54.18 in. (1376 mm)	22.95 in. (583 mm)	31.22 in. (793 mm)	26.17 in. (665 mm)	10.11 in. (257 mm)
222828	12:1 Bulldog	53.11 in. (1349 mm)	21.89 in. (556 mm)	31.22 in. (793 mm)	26.17 in. (665 mm)	10.11 in. (257 mm)
222905	24:1 King	54.55 in. (1386 mm)	23.33 in. (592 mm)	31.22 in. (793 mm)	26.17 in. (665 mm)	10.11 in. (257 mm)
222902	Viscount Hydraulic, SST	55.72 in. (1415 mm)	24.5 in. (622 mm)	31.22 in. (793 mm)	26.17 in. (665 mm)	10.11 in. (257 mm)

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Ordering Information

Ram Pump Modules

- 918303 39:1 Pump and 6.5 in. (16.5 cm) Ram Assembly**
Includes: 39:1 Premier CS pump, 6.5 in. (16.5 cm) dual-post ram, ram and motor air control, 55 gal. (200 liter) follower plate and dual PVC follower seals.
- 235836 King 24:1 and 3 in. (7.6 cm) Ram Assembly**
Includes: 24:1 King CS pump, 3 in. (7.6 cm) dual-post ram, ram and motor control, 55 gal. (200 liter) follower plate and dual Buna-N follower seals.
- 235835 Bulldog 12:1 and 3 in. (7.6 cm) Ram Assembly**
Includes: 12:1 Bulldog CS pump; 3 in. (7.6 cm) dual-post ram; ram and motor control; 55 gal. (200 liter) follower plate and dual Buna-N follower seals.

Bare Pump Modules

- 222828 12:1 Bulldog Check-Mate Pump, CS**
- 222903 12:1 Bulldog Check-Mate Pump, SST/RIQ**
- 222835 24:1 King Check-Mate Pump, CS**
- 222836 24:1 King Check-Mate Pump, SST**
- 222905 24:1 King Check-Mate Pump, SST/RIQ**
- 222940 39:1 Premier Check-Mate Pump, CS**
- 222902 Viscount II Hydraulic, CS**

Displacement Pumps

- 222810 Carbon Steel**
- 222811 Stainless Steel**