



First choice when quality counts.™

Check-Mate™ 200 Series Priming Piston Fluid Pumps

- **SST models for waterborne compatibility**
- **Severe Duty™ rod and cylinder for durability**
- **Large internal porting for maximum flow**
- **Floating piston seal and priming plate improve balance and performance**

Improved Balance Over Conventional Pumps

Graco priming piston pumps feature the Check-Mate 200 fluid pump lower, a significant design refinement which achieves superior balance by reducing pressure drop during the downstroke. Improved pump efficiency produces greater net fluid pressure for pumping high viscosities or supplying longer fluid lines.

Because conventional double-acting pumps are calibrated to be balanced for a specific fluid viscosity, pumping fluids of other than specified viscosity results in an off-balance condition. The Check-Mate pump demonstrates minimal drift from perfect balance to provide a smooth flow pattern over a wide range of fluid viscosities. Bead distortion is minimized for critical dispensing of expensive materials.

Pressure-balanced pumps for uniform dispensing and minimal bead distortion

Typical Fluids Handled

- sealants
- adhesives
- inks
- mastics
- lubricants

System Selection

Pail Ram systems include pump with air regulator, 5 gal. (19 liter) single-post ram with air regulator, and ram plate.

Cart-Mounted Pail Ram systems include pump, cart, 5 gal. (19 liter) ram plate and air regulator. System is offered with or without 3/8 npt(mbe) x 25 ft. (7.6 m) nylon-lined hose and Extrusion Flo Gun (207-945).

Ordering Information

Monark 23:1

	CS	SST
Bare Pump:	222-782	222-839
Pail Ram:	231-117	231-168
Cart-Mount		
(w/out hose and gun):	231-134	231-170
Cart-Mount (w/hose and gun):	231-135	231-171

President 46:1

Bare Pump:	222-783	222-907
Pail Ram:	231-118	231-169
Cart-Mount		
(w/out hose and gun):	231-136	231-172
Cart-Mount (w/hose and gun):	231-137	231-173



231-117



231-118

COMPONENTS

Monark 23:1 Technical Specifications

Max. fluid pressure 4140 psi (28.5 MPa, 285 bar)
 Max. air input pressure 180 psi (1.25 MPa, 12.5 bar)
 Air inlet size (bare pump) 3/8 npt(f)
 Fluid flow at 60 cpm 0.5 gpm (1.9 l/min)
 Fluid outlet size 1/2 npt(m)

Packings:

Throat UHMWPE/Teflon®
 Piston (CS) UHMWPE
 Piston (SST) Teflon

Rod and cylinder Severe Duty™ (chrome over SST)

Other wetted parts

Carbon steel CS, alloy steel, ductile iron,
 304, 316 and 17-4 PH SST, zinc plating,
 Teflon, Delrin®, UHMWPE
 Stainless steel 304, 316 and 17-4 PH SST,
 Teflon, Delrin, UHMWPE

Overall length (bare pump) 45 in. (115 cm)

Weight (pump only) 43 lbs (19.5 kg)

Instruction manual

Carbon steel 308-080
 Stainless steel 308-200

Teflon® and Delrin® are registered trademarks of the Du Pont.

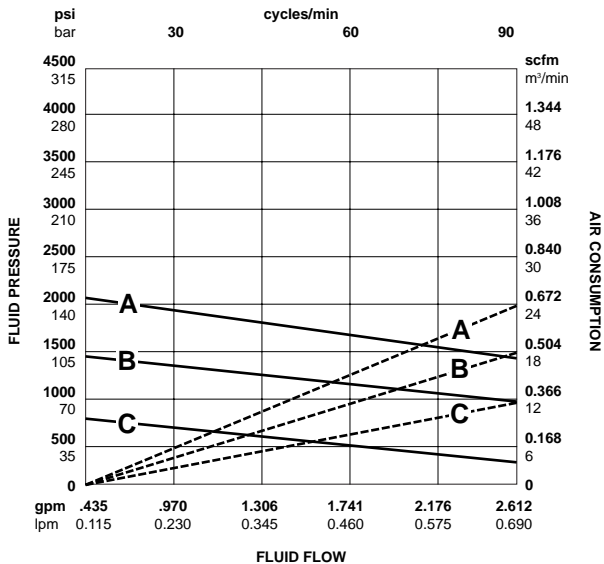


231-117



231-134

Pump Performance



Key:
 — Fluid Outlet Pressure, Black Solid Curves
 --- Air Consumption, Gray Dotted Curves

Air Pressures:
 A = 100 psi (7 bar) air pressure
 B = 70 psi (4.9 bar) air pressure
 C = 40 psi (2.8 bar) air pressure

President 46:1 Technical Specifications

Max. fluid pressure 4600 psi (32.0 MPa, 320 bar)
 Max. air input pressure 100 psi (0.7 MPa, 7 bar)
 Air inlet size (bare pump) 1/2 npt(f)
 Fluid flow at 60 cpm 0.6 gpm (2.3 lpm)
 Fluid outlet size 1/2 npt(m)

Packings:
 Throat UHMWPE/Teflon®
 Piston (CS) UHMWPE
 Piston (SST) Teflon
 Rod and cylinder Severe Duty™ (chrome over SST)

Other wetted parts
 Carbon steel CS, alloy steel, ductile iron,
 304, 316 and 17-4 PH SST, zinc plating,
 Teflon, Delrin®, UHMWPE
 Stainless steel 304, 316 and 17-4 PH SST,
 Teflon, Delrin, UHMWPE

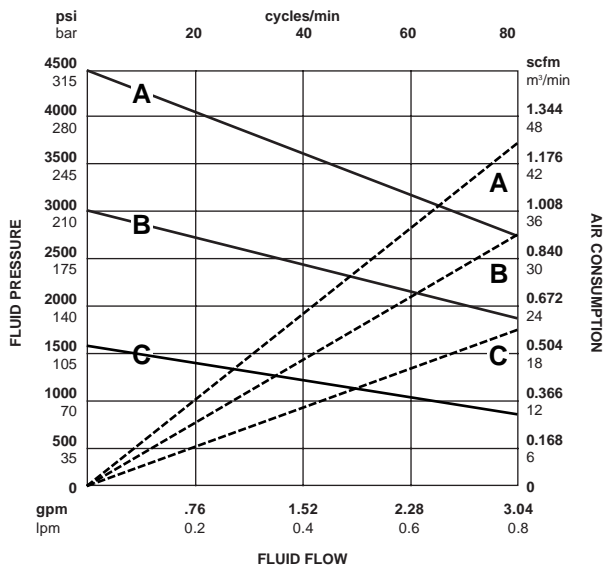
Overall length (bare pump) 47-1/2 in. (121 cm)
Weight (pump only) 48 lbs. (21.8 kg)
Instruction manual
 Carbon steel 308-080
 Stainless steel 308-200



231-118

COMPONENTS

Pump Performance



Key:
 — Fluid Outlet Pressure, Black Solid Curves
 --- Air Consumption, Gray Dotted Curves

Air Pressures:
 A = 100 psi (7 bar) air pressure
 B = 70 psi (4.9 bar) air pressure
 C = 40 psi (2.8 bar) air pressure



231-136

Accessories

103-538 Grounding Clamp

208-950 Ground Wire

25 ft. (7.6 m) long. 12 gauge (1.5 mm²)

Air Valve

107-142 1/2 npt(m) inlet x 1/2 npt(fbe) outlet

107-141 3/4 npt(m) inlet x 3/4 npt(fbe) outlet

Air Line Filter

106-149 1/2 npt(fbe)

106-150 3/4 npt(fbe)

Air Line Lubricator

214-848 1/2 npt(fbe)

214-849 3/4 npt(fbe)

104-266 Air Regulator

For President and Monark pumps 1/2 npt(fbe).

224-040 Pump Runaway Valve

3/4 npt(fbe)

223-815 Air Pressure Regulator Kit

Includes air regulator and gauge, air valve and manifold with swivel inlet. 3/4 npt(fbe).

Nylon Fluid Hose

*Max. working pressure: 4000 psi (27.6 MPa, 276 bar).
3/4 npt(mbe)*

184-138 15 ft. (4.8 m)

184-139 5 ft. (1.5 m)

*Max. working pressure: 5000 psi (35.0 MPa, 350 bar).
1/2 npt(mbe).*

184-156 20 ft. (6.1 m)

*Max. working pressure: 5000 psi (35.0 MPa, 350 bar).
3/8 npt(mbe).*

215-244 25 ft. (7.6 m)

Teflon Fluid Hose

*Max. working pressure: 4000 psi (27.6 MPa, 276 bar).
1/2 npt(mxf)*

222-934 15 ft. (4.8 m)

222-935 15 ft. (4.8 m)

*Max. working pressure: 5000 psi (35.0 MPa, 350 bar).
1/2 npt(mxf).*

222-935 25 ft. (7.6 m)

Mounting Accessories

222-781 Single Post 5 Gallon (19 Liter) Pail Ram

Includes pail ram and extender kit (223-889).
Use with Wiper Plate (222-812 or 222-909).

224-197 Pneumatic Elevator Cart

Uses air pressure to raise pump from 5 gal. (19 liter) pail. Use with Wiper Plate (222-812 or 222-909).
Cart Accessory Kit 224-376 required.

224-376 Cart Accessory Kit

Mounts a Check-Mate 200 pump on Pneumatic Elevator Cart (224-197).

222-812 5 Gallon (19 Liter) Wiper Plate

222-909 5 Gallon (19 Liter) Wiper Plate (SST)

For use with pail ram or pneumatic cart.

223-689 Plastic Shields, 5 Gal. (19 Liter) Size

10 per pack. Protects plate and simplifies clean-up.

207-279 55 Gallon (200 Liter) Ram

For Monark 23:1 and President 46:1.
Requires Mounting Kit (224-829).

Repair Kits

222-784 Seal Repair Kit (for CS lowers)

222-972 Seal Repair Kit (for SST lowers)

Includes all pump seals and O-rings, except throat packings.

222-785 Throat Packing Repair Kit

UHMWPE/Teflon. Includes V-packings and glands.

222-798 Intake Seat Repair Kit (for CS)

222-908 Intake Seat Repair Kit (for SST)

Includes valve body and seals.

222-784 Seal Conversion Kit

For stainless steel lowers. Converts piston and intake seals to UHMWPE. Includes seals and O-rings.

222-786 Throat Packing Conversion Kit

To convert pump throat to all-Teflon packings.
V-packing and glands.

Air Motor Service Kits

206-728 For Monark

207-385 For President