



# Monark<sup>®</sup> 5:1 Sanitary Pumps and Packages

- **Flow to 4.0 gpm (15.1 lpm)**
- **Maximum fluid pressure of 500 psi (3.5 MPa, 35 bar)**
- **Adjust-A-Stroke<sup>®</sup> option available for ±2% accurate metering**
- **Monark air motor with 10 year warranty**

**Sanitary pump  
for drum  
unloading of  
light to  
moderate  
viscosity fluids**

Graco's Monark 5:1 Double Ball Pump is suitable for fluids up to 50,000 cps when immersed directly, and up to 100,000 cps when mounted on a two-post ram. These fluids tend to flow to the pump inlet and are self-leveling. Once pressurized, they flow easily with minimum pressure drop.

The USDA and 3A-approved, quick knockdown pump is constructed of 316 stainless steel, with a 1½ inch (38 mm) sanitary tube flange outlet.

#### **Typical Fluids Handled**

- Fruit juice
- Mayonnaise
- Pizza sauce
- Corn syrup
- Jams and jellies
- Icing

#### **Typical Applications**

- Fluid transfer and supply

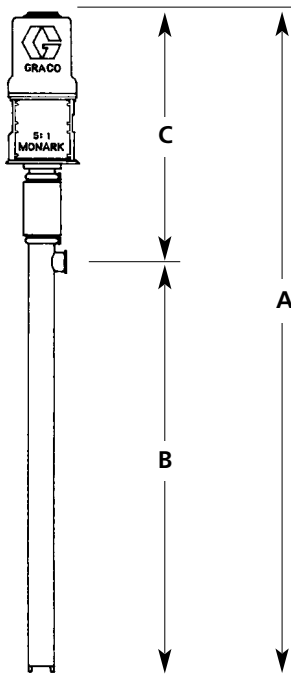


207-550

## Technical Specifications

Maximum fluid pressure . . . . . 576 psi (3.9 MPa, 39 bar)  
 Maximum air input pressure . . . 120 psi (0.8 MPa, 8.2 bar)  
 Fluid Flow at 100 cpm . . . . . 4 gpm (15.1 lpm)  
 Volume per cycle . . . . . 0.4 gal. (0.15 liter)  
 Fluid to air pressure ratio . . . . . 5:1  
 Max. air motor operating temperature . . . 200°F (93°C)  
 Wetted parts . . . . . SST, buna-N, neoprene  
 Air inlet size . . . . . 3/8 npt(f)  
 Fluid inlet size . . . . . 2½ in. (5.4 cm)  
 Fluid outlet size . . . . . 1½ in. (38 mm) Tri-Clamp®  
 Weight . . . . . 33 lbs. (15 kg)  
 Instruction manual . . . . . 307-056

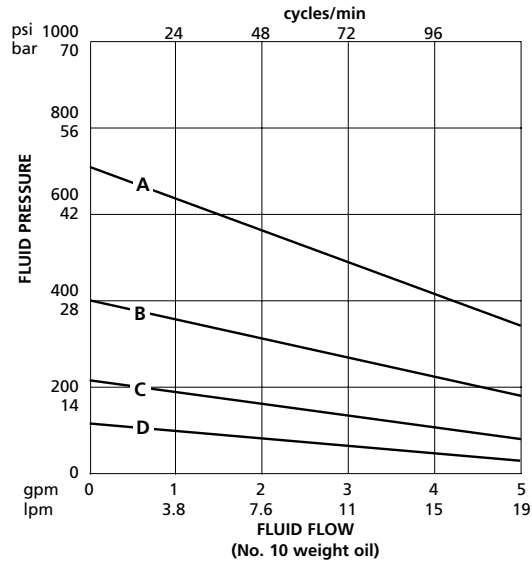
## Dimensions



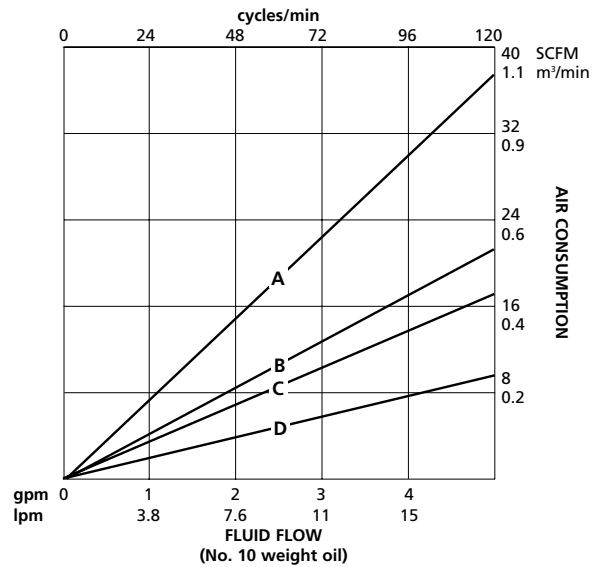
	Drum Length	Stubby Length
<b>A</b>	56.75 in. (1467 mm)	35.75 in. (907 mm)
<b>B</b>	36.75 in. (933.5 mm)	15.87 in. (402 mm)
<b>C</b>	20.00 in. (533.5 mm)	19.88 in. (504 mm)

## Performance Chart for Monark 5-1 Sanitary Pump

### Fluid Pressure



### Air Consumption



Air Pressures:

A = 180 psi (1.2 MPa, 12 bar)

B = 100 psi (0.7 MPa, 7 bar)

C = 70 psi (0.47 MPa, 4.7 bar)

D = 40 psi (0.27 MPa, 2.7 bar)

Performance tested in No. 10 weight motor oil (65 cp at 68° F (20° C))

# Ordering Information for Monark 5:1 Sanitary Pumps and Packages

## Drum Unloader Packages

- 965-726** Includes Monark 5:1 SST double ball pump (207-550), ENP motor, plate (901-950), and ram (954-285).
- 965-649** Includes Monark 5:1 SST double ball pump (207-550), ENP motor, plate (901-950), and ram (948-103).
- 954-783** Includes Monark 5:1 SST double ball pump (207-550), ENP motor, plate (948-092), and ram (954-285).
- 954-989** Includes Monark 5:1 priming piston pump (952-793), plate (901-950), and ram (954-285).
- 965-556** Includes Monark 5:1 priming piston pump (952-793), ENP motor, plate (948-092), and ram (948-103).
- 954-722** Includes Monark 5:1 SST priming piston pump (952-793), ENP motor, plate (948-092), and ram (954-285).
- 965-791** Includes Monark 5:1 SST double ball pump (207-550), ENP motor, plate (948-092), and ram (948-103).
- 965-792** Includes Monark 5:1 priming piston pump (952-793), plate (901-950), and ram (948-103).

**954-722 Monark 5:1 Drum Unloader Package**



## Monark 5:1 Bare Pumps

- 207-550 Double Ball Pump**  
Drum length: 56.75 in. (147 cm).
- 903-035 Double Ball Pump**  
Drum length with Teflon® packings.
- 954-383 Double Ball Pump**  
Includes 1.5 in. (38 mm) Tri-Clamp inlet.  
Stubby length: 25.25 in. (641 mm).
- 965-520 Double Ball Pump**  
Stubby length: 25.25 in. (641 mm). Teflon packings.  
1.5 in. (38 mm) Tri-Clamp inlet. Buna-N.
- 952-793 Priming Piston Pump**  
Stubby length 25.25 in. (641 mm). Buna-N.

*Teflon® is a registered trademark of DuPont.*

**207-550 Monark 5:1 Double Ball Pump, Drum Length**



## Accessories

### 106-148 Air Filter

3/8 npt(f) ported filter removes water and foreign particles from plant air supply; protects pump motor.

### 110-234 Air Regulator

3/8 npt(f) ported regulator controls air pressure to pump thus controlling outlet fluid pressure. Maximum pressure: 125 psi (0.9 MPa, 9 bar).

### 214-847 Air Lubricator

3/8 npt(f) ported lubricator extends pump life and smooths operation by metering a small amount of lubricant into air line to pump. Use with remote exhaust.

### 110-150 FRL Combination

3/8 npt(f) ported FRL combines filter, regulator and lubricator into one ready-to-install package. Use with remote exhaust.

### 110-224 Air Shut Off

3/8 npt(f) ported valve shuts off air to air motor and bleeds off air pressure in air motor.

### 224-040 Runaway Valve

3/4 npt(f) ported valve prevents pump damage by sensing runaway pump condition due to empty drum and closing air supply. Recommended for unattended operation.

### 949-399 Automatic Valve, SST

### 947-585 Manual Valve, SST

### 204-858 Drum Clamp

Nickel plated, 2 npt(f).

### 204-076 Adapter, 2 npt(m)

Fits around outside of pump cylinder (207-550).

### 904-848 Pneumatic Control Box

Water resistant.

### Air Hoses

**203-320** 3/8 npt(m) outlets. 6 ft. (1.8 m) length.

**109-131** 3/8 npt(m) outlets. 10 ft. (3 m) length.

### 552-175 Fluid Hose

2 in. ID x 10 ft. (50 mm x 3 m)

### Mounting Accessories

**954-285** SST FT ram.

**948-103** White epoxy coated ram.

### Repair Kits

**218-741** For pumps 207-550, 954-383 and 952-995. Includes standard throat packing, Buna-N, standard piston packing, neoprene.

**948-147** For pump 952-793. Includes standard throat packing, Buna-N, standard piston packing, neoprene.

**904-427** For pumps 903-035 and 965-520. Includes Teflon packings. Also can be used as Teflon conversion kit for pump 207-555.

### 206-728 Air Motor Repair Kit

Includes seals and hardware for rebuilding air motor.

### Alternate Packing Kits

**178-140** Throat packing, UHMWPE.

**605-753** Throat packing, Teflon.

**605-754** Piston packing, Teflon.

**605-756** Piston packing, UHMWPE spacer.

### Plates

**949-017** Drum 20 in. (507 mm), 1 flat wiper.

**948-092** Fiber drum 21.5 in. (545 mm), 1 flat wiper.

**901-950** Drum 22.5 in. (571 mm) or 23 in. (583 mm) fiber drum, 2 round wiper rings.

**949-877** Drum 22.5 in. (571 mm) or 23 in. (583 mm) fiber drum, 2 round wiper rings, and sanitary vent valve.

**949-655** Drum 22.5 in. (571 mm), 2 round wiper rings (165-601).

**948-652** Drum 22 in. (558 mm), 1 flat wiper.

**948-024** Drum 23 in. (583 mm), 1 flat wiper.

## Sales/Distribution

North America Toll Free 800-367-4023

Telephone 612-623-6743

Fax 612-623-6580

Contact sales personnel

Locate authorized distributors

Product information literature



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