



First choice when  
quality counts.™

# Monark 5:1 Drum Pump

- **Delivers up to 2.5 gpm (9.46 lpm) at up to 900 psi (6.2 MPa, 62 bar)**
- **Stainless steel or carbon steel models to suit every production application**
- **Air powered for high reliability and low cost**

**Handles  
applications  
ranging from  
cleaning to  
corrosive fluid  
transfer**

Graco's Monark 5:1 drum pump efficiently supplies or transfers a variety of low to medium viscosity materials. It pumps directly from 55 gallon (200 liter) closed-end, bung-type drums. And it can also be mounted on open-end drums or supply tanks, using mounting clamps or drum cover mounting. Stainless steel models with Teflon® packings are available for supply or transfer of light to medium viscosity corrosive fluids.

#### **Typical Fluids Handled**

- Solventborne paints (CS models)
- Waterborne paints (SST models)
- Texture coatings
- Cleaning fluids
- Adhesives and sealants

#### **Typical Applications**

- Fluid transfer and supply
- Paint circulating
- Cleaning chemical supply



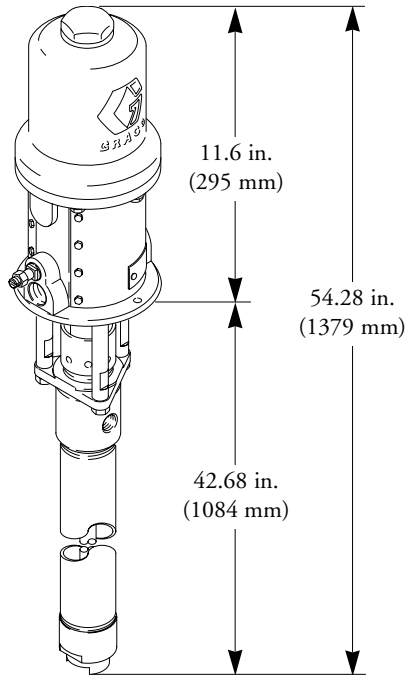
218-956

COMPONENTS

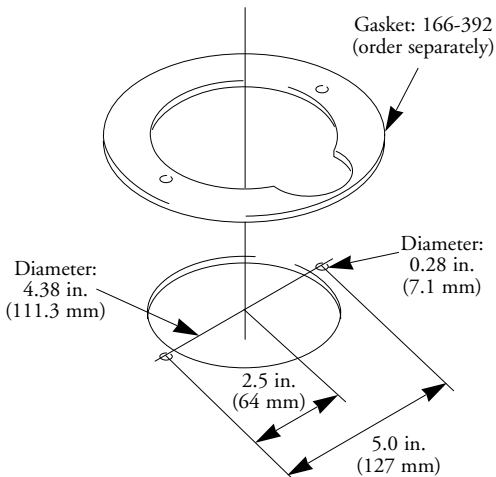
## Technical Specifications

**Maximum continuous flow** ..... 2.5 gpm (9.46 lpm)  
**Volume/cycle** ..... 5.3 oz. (156.7 cc)  
**Air motor diameter** ..... 3 in. (7.6 cm)  
**Air inlet pressure range** ..... 30-180 psi  
 (0.2-1.2 MPa, 2.0-12 bar)  
**Maximum fluid pressure** ..... 900 psi (6.2 MPa, 62 bar)  
**Air inlet size** ..... 3/8 npt(f)  
**Fluid outlet size** ..... 3/4 npt(f)  
**Weight** ..... 30 lb. (13.6 kg)  
**Instruction manuals**  
 224-350 ..... 308-118  
 218-956 ..... 307-044

## Dimensions

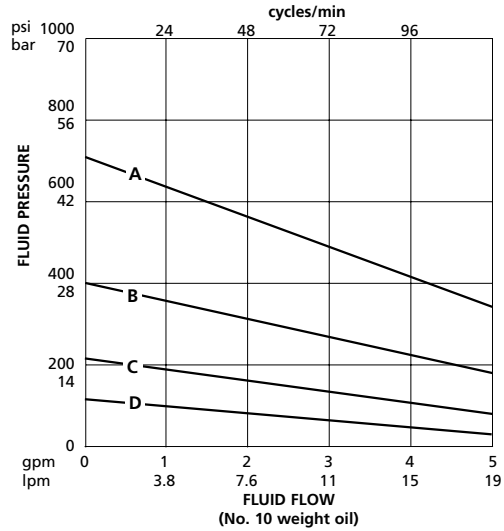


## Mounting Hole Layout

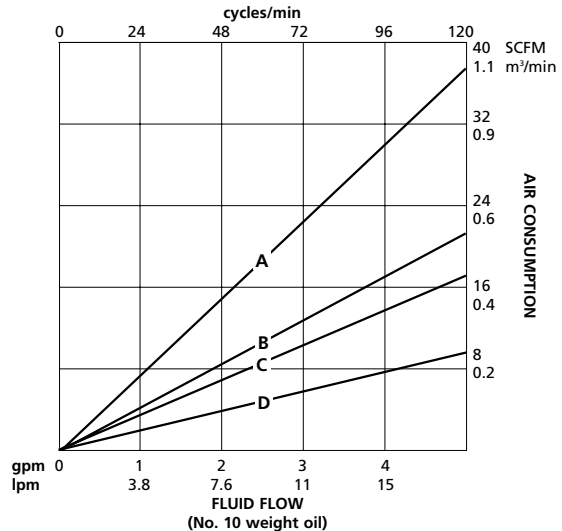


## Performance Charts for Monark 5:1 Drum Pump

### 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 Drum Pump

Order number includes motor and pump lower assembly

| <b>Order Nos.</b>                   | <b>224-350</b> | <b>218-956</b> |
|-------------------------------------|----------------|----------------|
| <b>Pump Lower</b>                   |                |                |
| Part No.                            | 224-349        | 220-465        |
| Construction                        | SST            | CS             |
| Standard Seal Repair Kits           | 224-403        | 208-520        |
| Construction                        | UHMWPE/Teflon® | Teflon         |
| Optional Seal Repair Kits Available | 224-889        | NA             |
| Construction                        | Teflon         |                |
| <b>Motor</b>                        |                |                |
| 206-728: Repair Kit                 |                |                |

## SERVICE PARTS INFORMATION

| <b>Pump Lower Part Nos.</b>                       | <b>224-349</b> | <b>220-465</b> |
|---|----------------|----------------|
| Displacement Rod                                  | 186-997        | 169-504        |
| Construction                                      | SST            | SST            |
| Cylinder  | 186-986        | 186-986        |
| Construction                                      | SST            | SST            |
| <b>Intake Valve (order separate part numbers)</b> |                |                |
| Intake Ball                                       | 101-968        | 101-178        |
| Intake Valve Seat                                 | 186-991        | 204-762        |
| <b>Piston Valve (order separate part numbers)</b> |                |                |
| Piston Ball                                       | 101-917        | 100-279        |
| Seat  | 186-993        | 156-989        |
| Ball Guide  | 176-644        | 157-184        |

Teflon® is a registered trademark of Du Pont.

## Accessories

### 237-569 Grounding Clamp and Wire

Length: 25 ft (7.6 m), 12 gauge (1.5 mm<sup>2</sup>)

### 107-142 Bleed-type Master Air Valve

Maximum working pressure: 300 psi (2.1 MPa, 21 bar).

Inlet: 1/2 npt(m) x outlet: 1/2 npt(f).

### 106-148 Air Line Filter

Max. working pressure: 250 psi (1.75 MPa, 17.5 bar).

Inlet and outlet: 3/8 npt(f).

### 214-847 Air Line Lubricator

Max. working pressure: 250 psi (1.75 MPa, 17.5 bar)

Bowl capacity: 8 oz. (0.24 liter.)

Inlet and outlet: 3/8 npt(f)

### 202-858 Air Regulator

Max. working pressure: 300 psi (2.1 MPa, 21 bar).

Regulated pressure range: 0-250 psi, (0-1.8 MPa,

0-18 bar). Inlet: 3/8 npt(f); outlet: 1/2 npt(f).

### 224-040 Pump Runaway Valve

Maximum working pressure: 120 psi (0.84 MPa, 8.4 bar).

Inlet and outlet: 3/4 npt(f).

### Grounded Air Hose, Buna-S

Maximum working pressure: 175 psi (1.2 MPa, 12 bar).

| Part No. | ID              | Length          | Thread     |
|----------|-----------------|-----------------|------------|
| 205-418  | 1/2 in. (13 mm) | 6 ft. (1.8 m)   | 1/2 npt(m) |
| 205-216  | 1/2 in. (13 mm) | 15 ft. (4.5 m)  | 1/2 npt(m) |
| 205-273  | 1/2 in. (13 mm) | 25 ft. (7.6 m)  | 1/2 npt(m) |
| 208-594  | 1/2 in. (13 mm) | 50 ft. (15.2 m) | 1/2 npt(m) |

### 218-029 Fluid Filter, Carbon Steel

Maximum working pressure: 5000 psi (35 MPa, 350 bar).

Screen: 60 mesh (250 micron).

### 223-160 Fluid Filter, Stainless Steel

Maximum working pressure: 5000 psi (35 MPa, 350 bar).

Screen: 60 mesh (250 micron).

### Fluid Drain Valves, Carbon Steel

Maximum working pressure: 5000 psi (35 MPa, 350 bar).

**210-657** 1/4 npt (mbe)

**210-658** 3/8 npt (mbe)

**210-659** 1/4 npt x 3/8 npt (mbe)

### 204-858 Sturdi-Clamp

Attaches a stainless steel bung pump to the side of an open drum.

### Graco Throat Seal Liquid

**206-995** 1 quart (0.95 liter)

**206-996** 1 gallon (3.8 liter)

### Grounded Nylon Fluid Hose

Maximum working pressure: 3000 psi (21 MPa, 210 bar).

| Part No. | ID               | Length          | Thread, CS  |
|----------|------------------|-----------------|-------------|
| 214-700  | 3/16 in. (5 mm)  | 2 ft. (0.6 m)   | 1/4 npsm(f) |
| 214-701  | 3/16 in. (5 mm)  | 3 ft. (0.9 m)   | 1/4 npsm(f) |
| 223-540  | 1/4 in. (6.3 mm) | 25 ft. (7.6 m)  | 1/4 npsm(f) |
| 223-541  | 1/4 in. (6.3 mm) | 50 ft. (15.2 m) | 1/4 npsm(f) |
| 214-703  | 3/8 in. (9.5 mm) | 25 ft. (7.6 m)  | 3/8 npt(m)  |
| 214-705  | 3/8 in. (9.5 mm) | 50 ft. (15.2 m) | 3/8 npt(m)  |
| 214-920  | 3/8 in. (9.5 mm) | 100 ft. (30.4)  | 3/8 npt(m)  |