



# Senator 35:1 Drum Pump

- **More durable than ever before with longer life packing design.**
- **Higher pump pressure and flow performance handles a broader range of paints and coatings.**
- **Improved serviceability means fewer parts, faster repairs and lower overall maintenance and ownership costs.**

**For durability,  
power and  
reliability under  
tough working  
conditions**

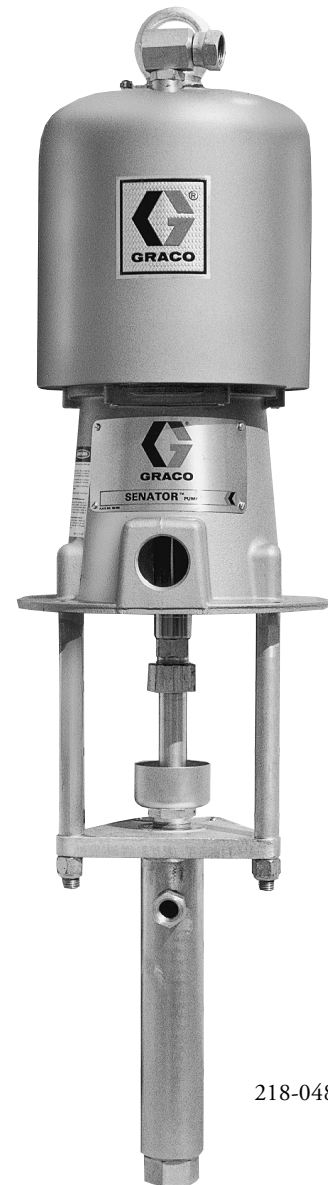
These high pressure Senator pumps are ideal as a central supply for multiple air-assisted and/or airless guns in painting and finishing operations. The reliable and durable Senator air motor has been developed and tested for more than 10 million cycles of operation.

#### **Typical Fluids Handled**

- Enamels
- Polyurethane coatings
- Epoxy primers and coatings
- Acid-catalyzed lacquers and varnishes
- Zinc-rich primers
- Waterborne coatings

#### **Typical Applications**

- Metal products coatings
- Wood products finishing coatings
- Corrosion control in ship building industries



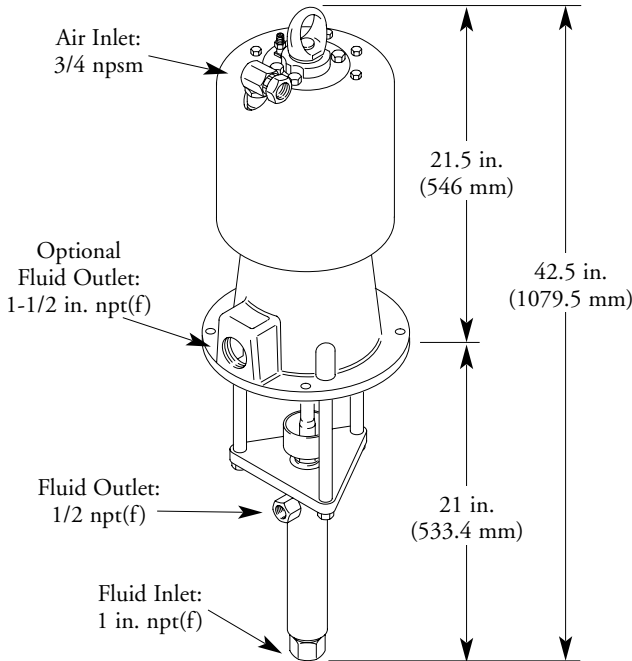
COMPONENTS

218-048

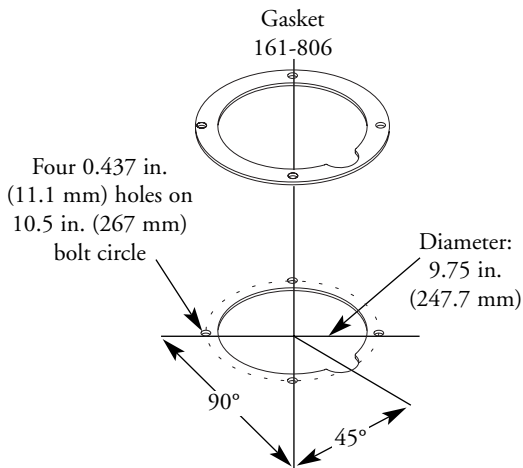
# Technical Specifications

- Maximum continuous flow . . . . . 1.5 gpm (5.7 lpm)
- Volume/cycle . . . . . 3.2 oz. (94.6 cc)
- Maximum air pressure . . . . . 120 psi (0.8 MPa, 8 bar)
- Maximum fluid pressure . . . . . 4200 psi (29 MPa, 290 bar)
- Air inlet size . . . . . 3/4 npsm
- Fluid inlet size . . . . . 1 npt(F)
- Fluid outlet size . . . . . 1/2 npt(f)
- Weight . . . . . 65 lb (28 kg)
- Instruction manual . . . . . 307-648

# Dimensions

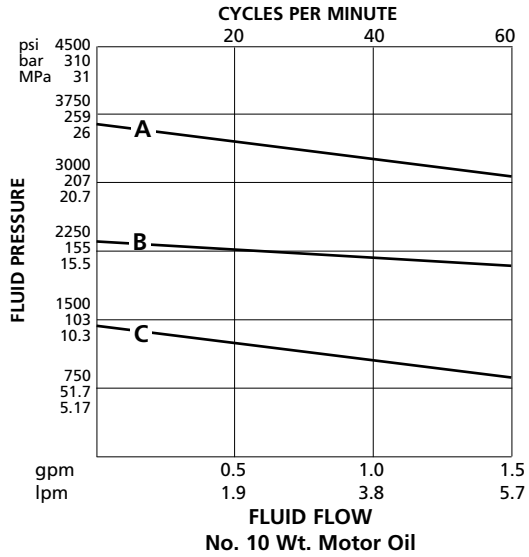


# Mounting Hole Layout

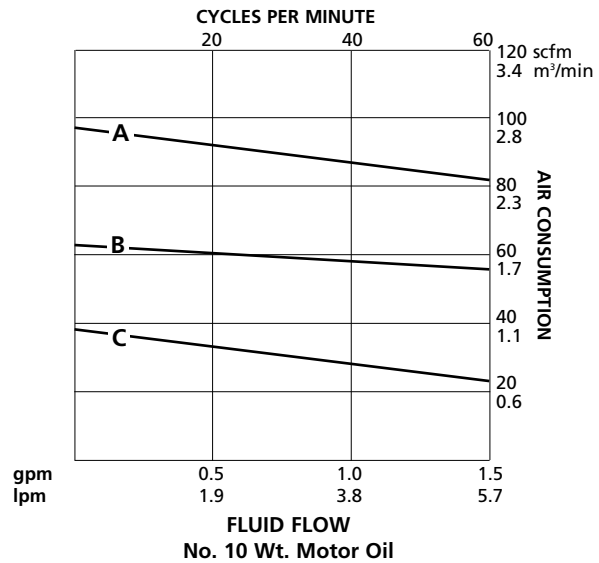


# Performance Charts Senator 35:1

## Fluid Pressure



## Air Consumption



## Air Pressure:

- A = 100 psi (0.7 MPa, 7 bar)
  - B = 70 psi (0.47 MPa, 4.7 bar)
  - C = 40 psi (0.28 MPa, 2.8 bar)
- Performance tested in No. 10 weight motor oil (65 cp at 68° F (20° C))

## Ordering Information for Senator 35:1

Order number includes motor and pump lower assembly

<b>Order Nos.</b>	<b>218-048</b>
<b>Pump Lower</b>	
Part No.	217-462
Construction	CS
Standard Seal Repair Kit	220-371
Construction	UHMWPE/Leather
<b>Motor</b>	
218-122: Repair Kit	

### SERVICE PARTS INFORMATION

<b>Pump Lower Part Nos.</b>	<b>217-462</b>
Displacement Rod	178-977
Construction	SST
Cylinder	178-984
Construction	SST
Intake Valve (order separate part numbers)	
Intake Ball	101-190
Intake Valve Seat	220-418
Piston Valve (order separate part numbers)	
Piston Ball	101-454
Seat	217-582
Ball Guide	218-038

## Accessories

### 106-149 Air Line Filter

Maximum working pressure: 250 psi (1.8 MPa, 18 bar)  
Inlet and outlet: 1/2 npt.

### 217-074 Air Line Filter

Maximum working pressure: 250 psi (1.8 MPa, 18 bar)  
Inlet and outlet: 1/2 npt.

### 214-848 Air Line Lubricator

Maximum working pressure: 250 psi (1.8 MPa, 18 bar)  
Inlet and outlet: 1/2 npt

### Bleed-Type Master Air Valve (required)

Maximum working pressure: 300 psi (2.1 MPa, 21 bar)  
**107-141** Inlet and outlet: 3/4 npt(mf)  
**107-142** Inlet and outlet: 1/2 npt(mf)

### 224-040 Pump Runaway Valve

Inlet and outlet: 3/4 npt(f)

### 237-569 Ground Wire

25 ft.; 12 gauge.

### Throat Seal Liquid

**206-995** 1 quart (0.9 liter)  
**206-996** 1 gallon (3.8 liter)

### 208-259 Suction Kit, 55 Gallon

### 206-221 Wall Bracket

### 218-028 Portable Cart

### High Pressure Ball Valves, Viton Seals

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

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

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

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

### 205-712 Air Pressure Regulator Kit

Maximum working pressure: 200 psi (1.4 MPa, 14 bar)

### 206-197 Air Pressure Regulator

Maximum working pressure: 300 psi (2.1 MPa, 21 bar)  
Inlet and outlet: 1/2 npt.

### Grounded Buna-S Air Supply Hose

Maximum working pressure: 175 psi (1.2 MPa, 12 bar)  
Thread size: 1/2-14 npt(mbe). 1/2 in. ID (12.7 mm).

<u>Part No.</u>	<u>Length</u>
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<b>205-418</b>	6 ft. (1.8 m)
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<b>205-273</b>	25 ft. (7.6 m)
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<b>208-594</b>	50 ft. (15.2 m)
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### 218-029 Fluid Filter

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