



# Bulldog<sup>®</sup> 41:1 Air-Powered 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**

The Bulldog 41:1 is an economical pump that provides the extra pressure necessary to spray paints with long lines, in cold weather or with low air pressures.

The Bulldog air motor, with its efficient, large ported air valve, is the highest performing in its class.

Downtime is minimized by an air motor design that has been developed and tested for more than 10 million cycles of operation.

#### **Typical Fluids Handled**

- Industrial paints
- Epoxy primers
- Polyurethane top coats
- Block fillers
- Waterborne paints

#### **Typical Applications**

- Airless spray and high pressure air-assisted airless spray
- General metal fabrication
- Railcar manufacturing
- Tank maintenance painting
- Farm and construction machinery
- Bridge construction
- Pulp and paper mills
- Nuclear and conventional power facilities

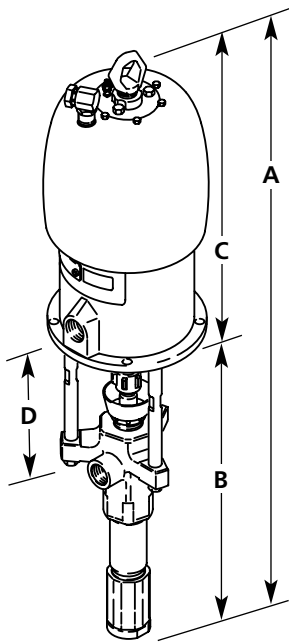


237-369

# Technical Specifications

- Max. fluid working pressure . . . 4100 psi (28 MPa, 279 bar)
- Max. air input pressure . . . . . 100 psi (0.7 MPa, 7 bar)
- Fluid flow at 60 cpm . . . . . 2.3 gpm (8.7 lpm)
- Volume per cycle . . . . . 4.9 oz. (0.15 liter)
- Max. pump operating temperature . . . . . 180°F (82°C)
- Pump weight . . . . . 90 lbs. (41 kg)
- Instruction manuals
  - SST: 237-634, 236-464 . . . . . 308-350
  - CS: 236-463, 237-369, 237-371 . . . . . 308-349

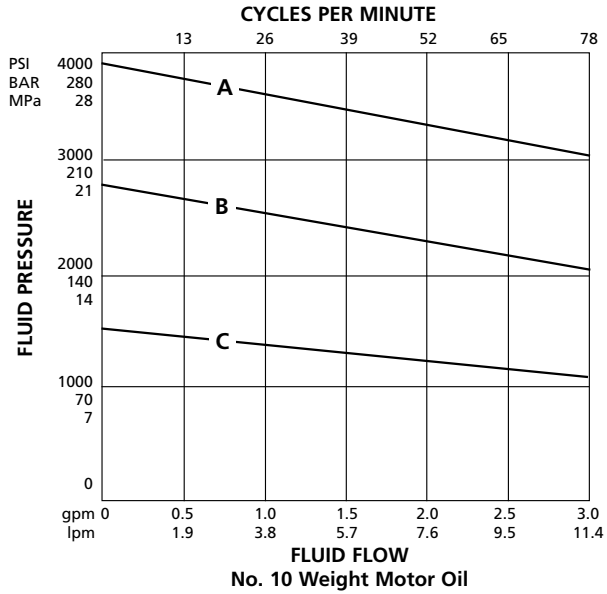
# Dimensions



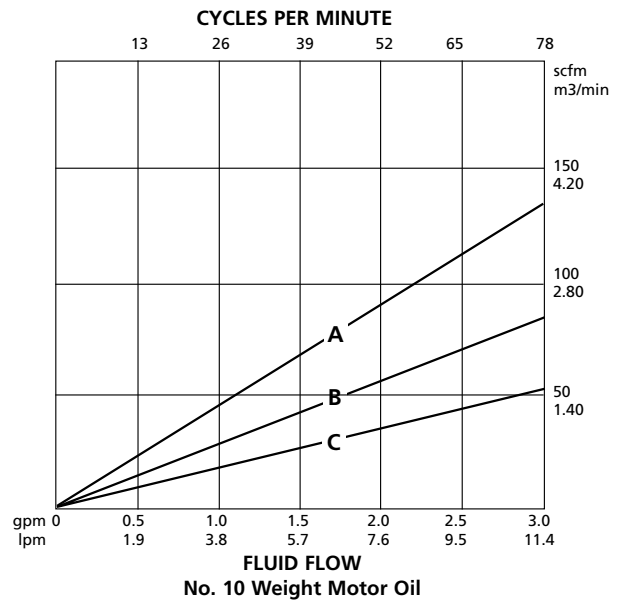
	A	B	C	D
<b>Standard motor 236-463, 237-634</b>	43.50 in. (1105 mm)	22.09 in. (561 mm)	21.42 in. (544 mm)	10.12 in. (257 mm)
<b>Quiet air motor 237-369, 236-464</b>	45.47 in. (1155 mm)	22.09 in. (561 mm)	23.38 in. (594 mm)	10.12 in. (257 mm)
<b>Drum length 237-371</b>	53.82 in. (1367 mm)	32.4 in. (823 mm)	21.42 in. (544 mm)	20.47 in. (520 mm)

# Performance Charts Bulldog 41:1

## Fluid Pressure



## Air Consumption



Air Pressures  
 A = 100 psi (0.7 MPa, 7 bar)  
 B = 70 psi (0.49 MPa, 4.9 bar)  
 C = 40 psi (0.28 MPa, 2.8 bar)

# Ordering Information for Bulldog 41:1

Order number includes motor and pump lower assembly

Order Nos.	236-463	237-369	237-371	237-634	236-464
<b>Pump Lower</b>					
Part No.	236-457	236-457	236-457	236-458	236-458
Construction	CS	CS	CS	SST	SST
Standard Seal Repair Kits	237-233	237-233	237-233	237-234	237-234
Construction	Leather	Leather	Leather	Leather	Leather
Optional Seal Repair Kits	237-235	237-235	237-235	237-236	237-236
Construction	Teflon®	Teflon	Teflon	Teflon	Teflon
	237-237	237-237	237-237	237-238	237-238
	UHMWPE/Leather	UHMWPE/Leather	UHMWPE/Leather	UHMWPE/Leather	UHMWPE/Leather
	237-609	237-609	237-609	237-609	237-609
	UHMWPE/Teflon	UHMWPE/Teflon	UHMWPE/Teflon	UHMWPE/Teflon	UHMWPE/Teflon
<b>Motor</b>					
Part No.	208-356	237-001*	208-356**	208-356	237-001*
Repair Kit	206-734	215-906	206-734	206-734	215-906

## SERVICE PARTS INFORMATION

<b>Pump Lower Part Nos.</b>	236-457	236-457	236-457	236-458	236-458
Displacement Rod	190-172	190-172	190-172	190-172	190-172
Construction	SST	SST	SST	SST	SST
Cylinder	184-503	184-503	184-503	184-503	184-503
Construction	SST	SST	SST	SST	SST
<b>Intake Valve (order separate part numbers)</b>					
Intake Ball	102-973	102-973	102-973	102-973	102-973
Intake Valve Seat	222-930	222-930	222-930	236-585	236-585
<b>Piston Valve (order separate part numbers)</b>					
Piston Ball	101-822	101-822	101-822	101-822	101-822
Seat	222-929	222-929	222-929	222-929	222-929
Ball Guide	184-504	184-504	184-504	189-406	189-406

\*Quiet air motor.

\*\*Standard Bulldog air motor with riser tube.

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## Accessories

### Whip Hose

Max. working pressure: 5000 psi (34.5 MPa, 345 bar).

1/4 in. ID (0.63 cm ID). 1/4 npsm(fbe).

**214-912** 3 ft. (0.9 m).

**214-913** 6 ft. (1.8 m).

### 156-173 Union

Connects 3/8 in. hoses. 3/8 npt(f) x 3/8 npsm(f).

### 150-287 Adapter

Connects 3/8 in. hose to whip hose.

3/8 npt(f) x 1/4 npt(m).

### Nylon Paint Hose

**215-245** Max. working pressure: 5000 psi (34.5 MPa, 345 bar). 3/8 in. ID x 50 ft. (0.95 cm ID x 15 m). 3/8 npt(mbe).

**215-227** Max. working pressure: 4050 psi (28 MPa, 280 bar). 1/2 in. ID x 50 ft. (1.27 cm ID x 15 m). 1/2 npt(mbe).

### 214-925 Hose Swivel

Max. working pressure: 5000 psi (34.5 MPa, 345 bar).

3/8 npt(f) x 1/4 npsm(f).

### 189-018 Swivel

### 235-460 Silver Gun

With flat tip retainer. Inlet: 1/4 mpsm(m). Outlet: 7/8 in.

### 222-674 HD RAC Tip Retainer with DripLess Guard

Inlet: 7/8 in.

### GHD-xxx HD RAC Tips

See your local distributor for tip size selection.

### 224-040 Pump Runaway Valve

### High Pressure Shutoff Valve

**210-657** Inlet: 1/4 npt(m). Outlet: 1/4 npt(m)

**210-658** Inlet: 3/8 npt(m). Outlet: 3/8 npt(m)

**210-659** Inlet: 1/4 npt(m). Outlet: 3/8 npt(m)

### 235-417 Connection Kit

Includes tie rods and parts necessary to connect lower displacement pump (236-457 or 236-458) to existing Bulldog air motor.

### 206-221 Wall Mounting Bracket

### 205-712 Air Pressure Regulating Kit

### 238-620 Paint Filter, 60 Mesh

Carbon steel wetted parts

### 237-960 Adapter

For ram mounting. Includes lug kit (222-776).

1-1/2 npt(m) x flange

### 237-961 Floor Stand Kit

Includes floor stand (222-274) and adapter (237-960).