



First choice when
quality counts.™

Bulldog 3:1 High-Flo Pump

- **Pressure output capacity of 300 psi (2.1 MPa, 21 bar)**
- **Excellent abrasion and corrosion resistance using Graco Severe Duty™ wear parts**
- **Large porting for excellent priming and handling of high viscosity fluids without cavitation**
- **High volume displacement pump lower: few cycles per gallon for reduced wear, and long intervals between packing seal replacement**

**Reliable, low
shear 4-ball
paint circulating
pumps**

Graco has the best medium volume, low pressure performers for circulating supply of light to medium viscosity fluids. Driven by the reliable Bulldog air motor which is life tested to 10,000,000 cycles, these high volume circulating pumps allow you to handle larger flow requirements at low cycle rates. This will extend pump life and minimize the intervals for maintenance and repair. Overall cost of ownership is reduced by this extended pump life. A small piston rod diameter reduces the sealing area to minimize throat leakage. These are all great reasons for choosing High-Flo pumps for your circulating and transfer applications.

Typical Fluids Handled

Stainless steel models

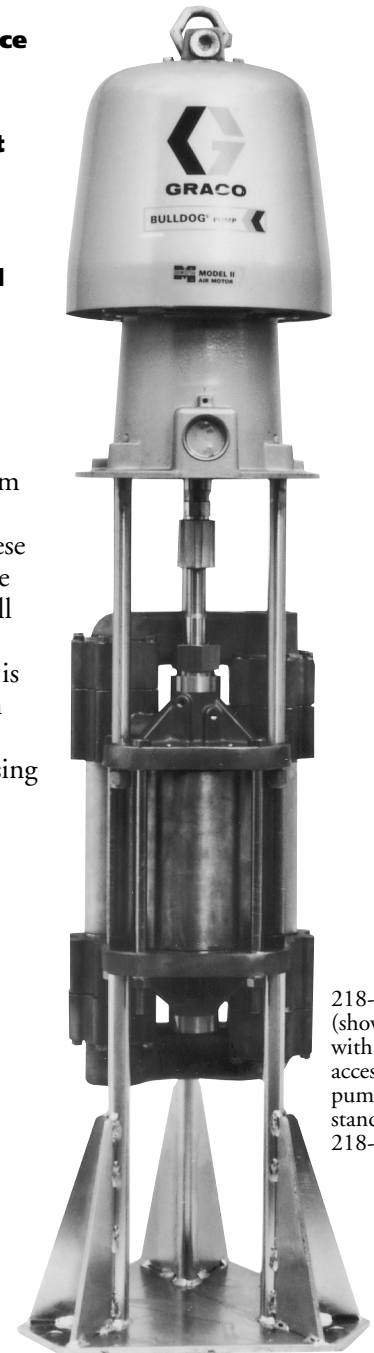
- Waterborne paints
- Acid catalyzed varnishes, enamels, and lacquers

Carbon steel models

- Solventborne paints

Typical Applications

- Paint circulation, supply and transfer



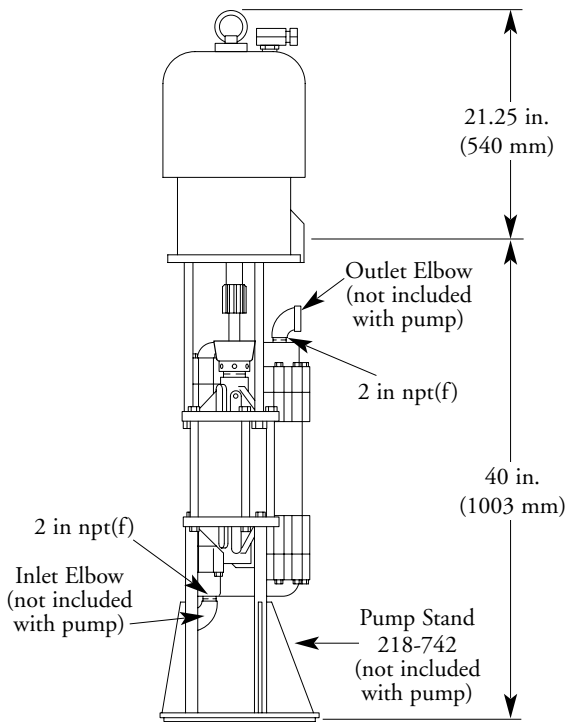
218-511
(shown
with
accessory
pump
stand
218-742)

COMPONENTS

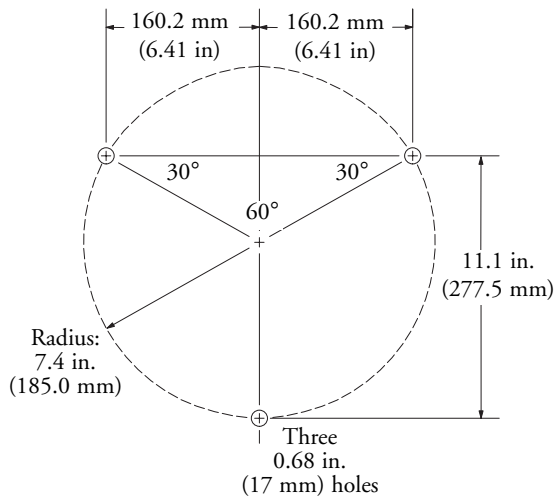
Technical Specifications

- Maximum working pressure . . . 300 psi (2.1 MPa, 21 bar)
- Max. air input pressure 100 psi (0.7 MPa, 7 bar)
- Fluid flow at 60 cpm 31 gpm (118 lpm)
- Volume per cycle 66 oz. (1.8 liter)
- Air inlet size 3/4 in. npsm(f)
- Fluid inlet size 2 in. npt(f)
- Fluid outlet size 2 in. npt(f)
- Instruction manual 307-678

Dimensions

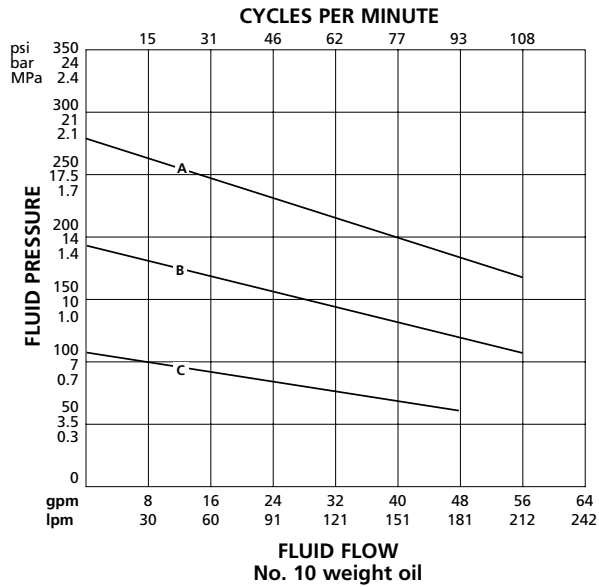


Mounting Stand Hole Layout

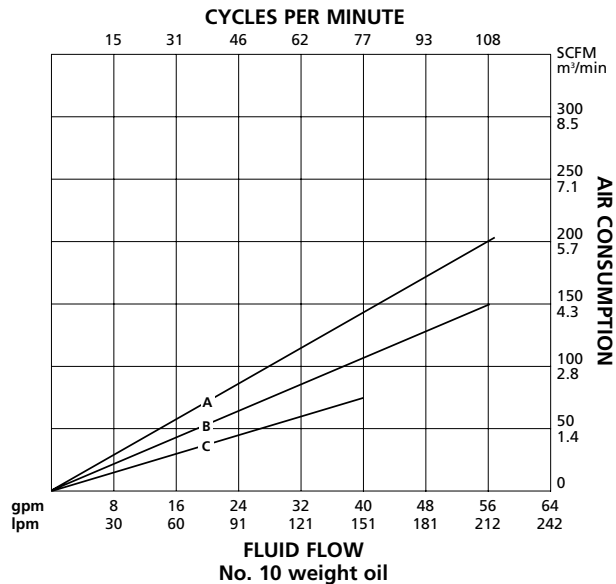


Performance Chart for Bulldog 3:1 High-Flo Pump

Fluid Pressure



Air Consumption



- Air Pressures:
 A = 100 psi (0.7 MPa, 7 bar)
 B = 70 psi (0.48 MPa, 4.8 bar)
 C = 40 psi (0.28 MPa, 2.8 bar)

Ordering Information for Bulldog 3:1 High-Flo

Order number includes motor and pump lower assembly

Order Nos.	218-511	218-512
Pump Lower		
Part No.	218-515	218-516
Construction	CS	SST
Standard Seal Repair Kit	218-735	218-735
Construction	UHMWPE	UHMWPE
Throat Packing Kits, available for all models		218-774
Construction		UHMWPE
		218-733
		Teflon®
		218-734
		Leather
		237-566
		UHMWPE/Leather
		237-605
		Teflon/Leather
Motor		
215-906: Repair Kit		

SERVICE PARTS INFORMATION

Pump Lower Part Nos.	218-515	218-516
Cylinder	180-499	180-499
Construction	SST	SST
Intake Valve (order separate part numbers)		
Intake Ball	102-974	110-294
Intake Valve Seat	237-744	237-744
Check Valve (order separate part numbers)		
Check Ball	102-974	110-294
Seat	180-529	180-529

Teflon® is a registered trademark of Du Pont.

COMPONENTS

Accessories

107-141 Bleed-Type Master Air Valve

Maximum working pressure: 300 psi (2.1 MPa, 21 bar). Inlet: 3/4 npt(m); outlet: 3/4 npt(f)

106-150 Air Line Filter

Maximum working pressure: 250 psi (1.8 MPa, 18 bar). Inlet and outlet: 3/4 npt(f)

214-849 Air Line Lubricator

Maximum working pressure: 250 psi (1.8 MPa, 18 bar). Inlet and outlet: 3/4 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). Includes optional 90° 3/4 npsm swivel outlet fitting.

207-651 Air Pressure Regulator Installation Kit

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

Grounded Buna-N Air Hose

Maximum working pressure: 175 psi (1.2 MPa, 12 bar)
ID: 3/4 in. (19 mm). Thread size 3/4 npt(m)

208-610 Length: 6 ft. (1.8 m)

205-548 Length: 15 ft. (4.5 m)

208-611 Length: 25 ft. (7.6 m)

208-612 Length: 50 ft. (15.2 m)

237-569 Ground Wire and Clamp

Length: 25 ft. (7.6 m)

218-742 Pump Floor Stand

Fluid Drain Valve

Maximum working pressure: 500 psi (3.4 MPa, 34 bar)

208-390 1/4 npt(mbe)

208-391 1/4 npt(f) x 3/8 npt(m)

208-393 3/8 npt(mbe)

Graco Throat Seal Liquid

206-995 1 quart (0.95 liter)

206-996 1 gallon (3.8 liter)

213-063 Red Alert Fluid Filter, Aluminum

Maximum working pressure: 300 psi (2.1 MPa, 21 bar).
Inlet: 1-1/4 npt(f). Outlets: 1-1/4 npt(f). Maximum recommended flow rate: 20 gpm (7.6 lpm). 60 mesh.

Red Alert Filter Elements, Stainless Steel

108-111 30 mesh (595 micron)

108-112 60 mesh (250 micron)

108-113 100 mesh (149 micron)

108-115 150 mesh (112 micron)

108-114 200 mesh (75 micron)

205-142 Nylon Fluid Hose

Maximum working pressure: 300 psi (2.1 MPa, 21 bar).
ID: 3/8 in. (9.5 mm). Thread size 3/8 npsm(fbe).
Length: 25 ft. (7.6 m)

SR200 Fluid Pressure/Surge Regulator, SST

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

Maximum recommended flow rate: 20 gpm (7.6 lpm).

223-883 Inlet and outlet: 2 in. sanitary clamp.

235-282 Inlet and outlet: 1-1/2 npt(f) sanitary clamp.

208-997 Fluid Back Pressure Regulator, SST

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

Inlet and outlet: 1-1/4 npt(f). Includes gauge.

Surge Tank

Maximum fluid and maximum gas charge: 300 psi (2.1 MPa, 21 bar).

Maximum recommended flow rate: 20 gpm (7.6 lpm).

Wetted parts: SST, Teflon.

238-983 Inlet and outlet: 2 npt(f)

238-984 Inlet and outlet: 2 in. sanitary clamp

218-742 Surge Tank Stand

238-157 Heavy Duty Agitator

Optional siphon kit (238-250), drum cover (238-283).