



First choice when
quality counts.™

Viscount® I 225, 300, 450 Hydraulic-Powered Pumps

**A tough, hard
working,
hydraulic-powered
paint circulating
pump designed
for long life**

- **Low operating costs**
- **Reduced downtime**
- **No compressed air required**
- **Low maintenance costs**
- **Quiet operation**

Graco's Viscount I pumps are up to three times more efficient than comparable compressed air systems. This hydraulic motor devotes almost all its energy to pump operation. Operating only on-demand, the Viscount I uses double-action pumping for consistent flow with no surging.

With most of its moving parts working in oil, maintenance and operating costs of the pump are greatly reduced. The hydraulic oil in use returns through a closed loop in the pump, thereby eliminating airborne contamination. There is no exhaust, condensation, stalling or icing problems.

The Viscount I pumps are powered from a dedicated, independent power source that creates no drain on compressed air supplies.

Typical Fluids Handled

- Paint circulation, supply and transfer

Typical Applications

Stainless Steel Models

- Waterborne paints
- Acid catalyzed varnishes, enamels and lacquers

Carbon Steel Models

- Solventborne paints

Technical Specifications

Maximum working pressure

- Viscount I 225 (.15:1) 225 psi (1.5 MPa, 15 bar)
- Viscount I 300 (.20:1) 300 psi (2.0 MPa, 20 bar)
- Viscount I 450 (.30:1) 450 psi (2.0 MPa, 31 bar)

Max. hydraulic fluid pressure . . . 1500 psi (10.5 MPa, 105 bar)

Fluid flow @ 60 cpm

- Viscount I 225 (.15:1) 20 gpm (75 lpm)
- Viscount I 300 (.20:1) 15 gpm (55 lpm)
- Viscount I 450 (.30:1) 9.3 gpm (35 lpm)

Oil flow @ 60 cpm 3 gpm (11.3 lpm)

Volume per cycles: gallon (liter)

- Viscount I 225 (.15:1) 0.80 (3.0)
- Viscount I 300 (.20:1) 1.1 (4.1)
- Viscount I 450 (.30:1) 1.64 (6.2)

Max. hydraulic motor oil temperature . . . 134°F (57° C)

Pump fluid inlet 1.5 npt(f)

Pump fluid outlet 1 npt(f)

Wetted parts See Ordering Information

Weight

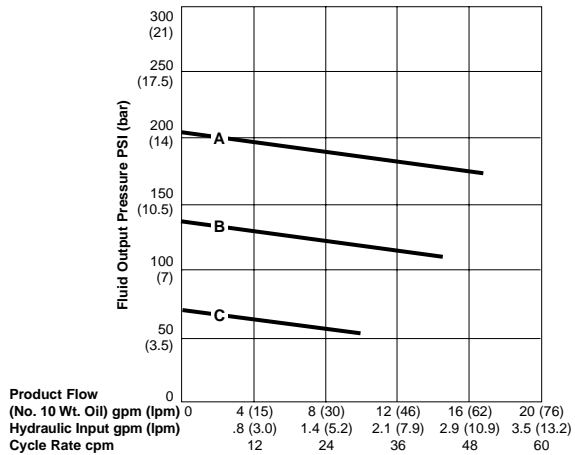
- Carbon steel models 76 lb (35 kg)
- Stainless steel models 69 lb (32 kg)

Instruction manuals

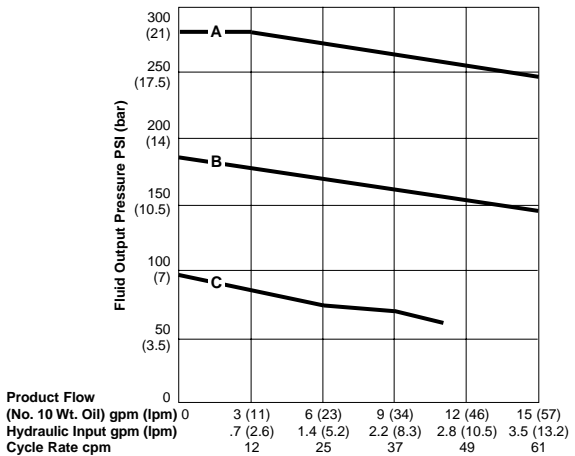
- Pumps, lowers 307-809
- Viscount I motor 308-330

Performance Chart for:

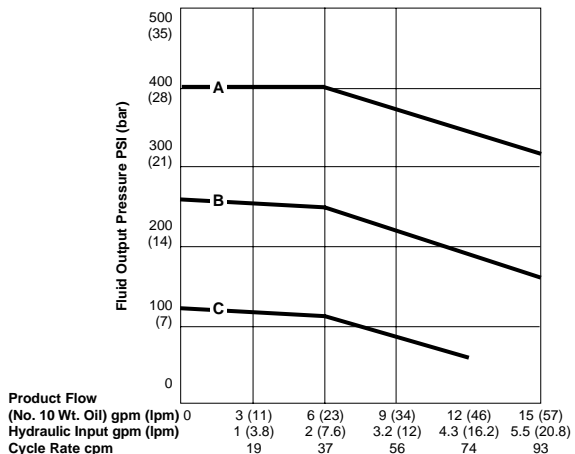
Viscount I 225



Viscount I 300



Viscount I 450



Key:
 A = 1500 psi (10.3 MPa, 103 bar) Input Pressure
 B = 1000 psi (6.9 MPa, 69 bar) Input Pressure
 C = 500 psi (3.4 MPa, 34 bar) Input Pressure
 Performance tested in no. 10 weight motor oil 65 cp at 68° F (20° C)

Ordering Information for Viscount I 225, 300, 450

Order number includes motor and pump lower assembly

Order Nos.	Viscount I 225		Viscount I 300		Viscount I 450	
	236-712	236-713	236-605	236-606	236-601	236-602
Pump Lower						
Part. No.	220-551	220-557	220-549	220-555	220-547	220-553
Construction	CS	SST	CS	SST	CS	SST
Standard Piston Seal Repair Kits	220-587	220-587	220-588	220-588	220-589	220-589
Construction	UHMWPE	UHMWPE	UHMWPE	UHMWPE	UHMWPE	UHMWPE
Piston Seal Conversion Kits	224-936	224-936	224-935	224-935	224-934	224-934
Construction	Teflon®	Teflon	Teflon	Teflon	Teflon	Teflon

Throat Packing Kits

All Models

220-585 Teflon

220-586 UHMWPE/Leather

Motor

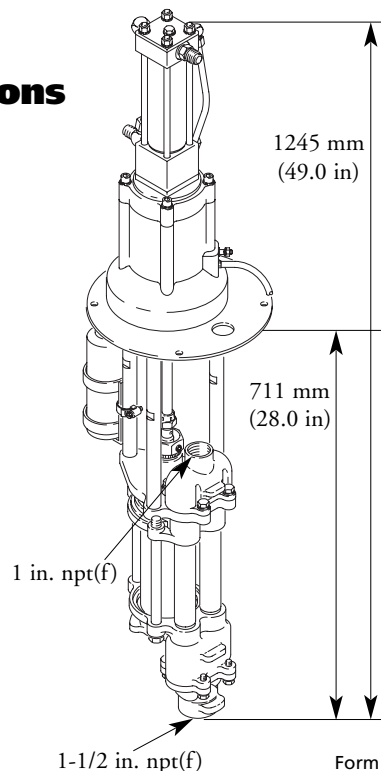
236-698 Repair Kit

SERVICE PARTS INFORMATION

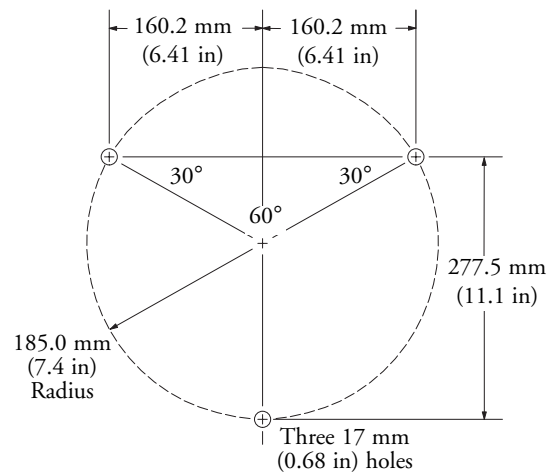
Pump Lower Part Nos.	220-551	220-557	220-549	220-555	220-547	220-553
Displacement Rod	181-898	181-898	181-898	181-898	181-898	181-898
Construction	SST	SST	SST	SST	SST	SST
Cylinder	181-900	183-048	183-032	183-047	181-899	183-049
Construction	CS	SST	CS	SST	CS	SST
Intake Valve (order separate part numbers)						
Intake Ball	101-968	101-968	101-968	101-968	101-968	101-968
Intake Relief Valve Seat	220-996	220-996	220-996	220-996	220-996	220-996
Check Valve (order separate part numbers)						
Check Ball	101-968	101-968	101-968	101-968	101-968	101-968
Seat	181-686	181-686	181-686	181-686	181-686	181-686

Teflon® is a registered trademark of Du Pont.

Dimensions



Mounting Hole Layout



Accessories

- 189-305 Assembly Tool**
Required for reassembling the motor
- 220-581 4-Legged Pump Stand**
37.5 in. (952.5 mm) high,
14 in. (356 mm) wide and deep
- 206-221 Wall Bracket**
- 214-906 55 Gal. (200 liter) Drum Cover
Mounted Hydraulic-Powered
Paint Agitator**
- 220-157 Surge Tank, SST**
Reduces pulsation in the fluid line.
1 in. npt(f) inlet and 1-1/2 in. npt(f) outlet.
- 218-742 Mounting Stand Kit**
For mounting surge tank to floor
- 222-011 Ground Wire and Clamp**
25 in. (7.6 m)
- 515-258 Hydraulic Pressure Control Valve**

Hydraulic Oil Supply and Return Hoses

3 Ft. Length

180-090 Supply.
Maximum working pressure:
2000 psi (13.8 MPa, 138 bar). 1/2 in. ID

180-091 Return.
Maximum working pressure:
1500 psi (10.5 MPa, 105 bar). 5/8 in. ID

6 Ft. Length

180-093 Supply.
Maximum working pressure:
2000 psi (13.8 MPa, 138 bar). 1/2 in. ID

180-092 Return.
Maximum working pressure:
1500 psi (10.5 MPa, 105 bar). 5/8 in. ID

Hydraulic Shutoff Valves

512-150 Maximum working pressure: 2000 psi
(13.8 MPa, 138 bar). 1/2 npt (f/b)

102-644 Maximum working pressure: 3000 psi
(20.7 MPa, 207 bar). 3/4 npt (f/b)

102-646 Maximum working pressure: 3000 psi
(20.7 MPa, 207 bar). 1 npt (f/b)

169-236 Hydraulic Oil

5 gal. size.