



President 30:1 Pump

- **Pressure output capacity of 3600 psi (24.5 MPa, 245 bar)**
- **2-ball check pump operation for uniform flow**
- **Wetted parts of stainless steel to meet wide range of fluids, including catalyzed materials**
- **Divorced air motor eliminates fluid and fume contamination, reducing maintenance**

Airless and Air Assisted Airless Pump for waterborne and high solids materials

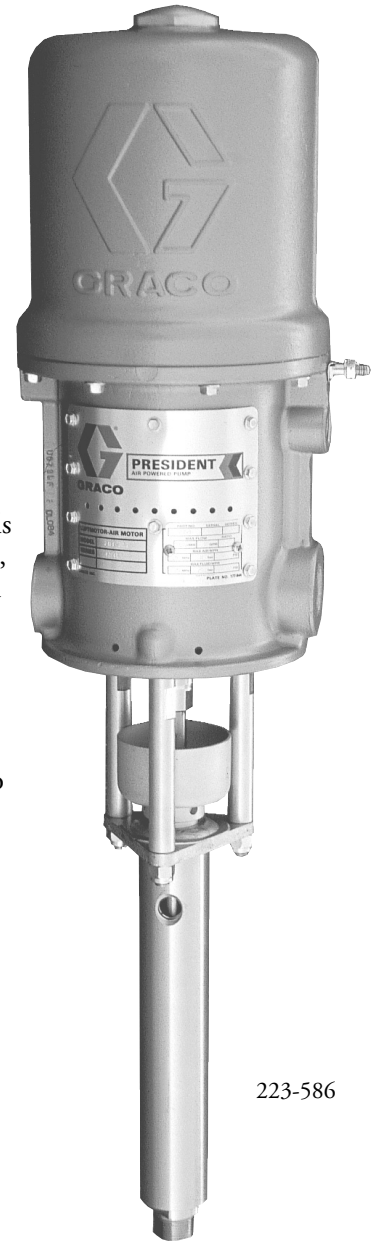
Graco's 30:1 President is ideal for airless and air assisted airless applications of many types of materials across a number of markets like wood, general metal, aircraft, trucks, buses, recreational vehicles, and farm and construction equipment. The high pressure allows the atomization of viscous high solids materials that are required for compliance to air quality regulations. There are thousands of satisfied customers using these pumps worldwide. Driven by the reliable President air motor which is life tested to 10,000,000 cycles.

Typical Fluids Handled:

- Waterborne coatings
- Acid-catalyzed materials
- High solids coatings

Typical Applications:

- Airless and air assisted airless spray finishing

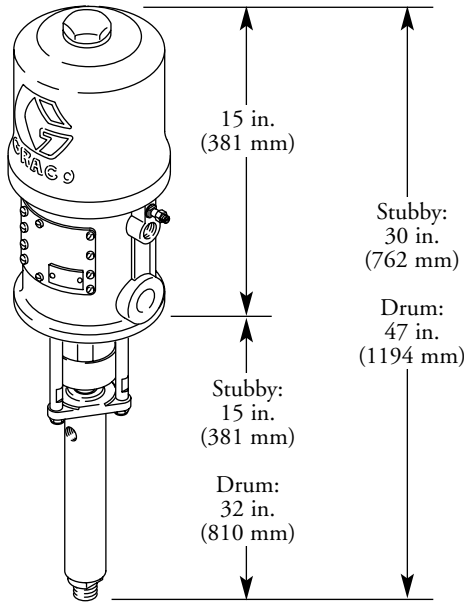


223-586

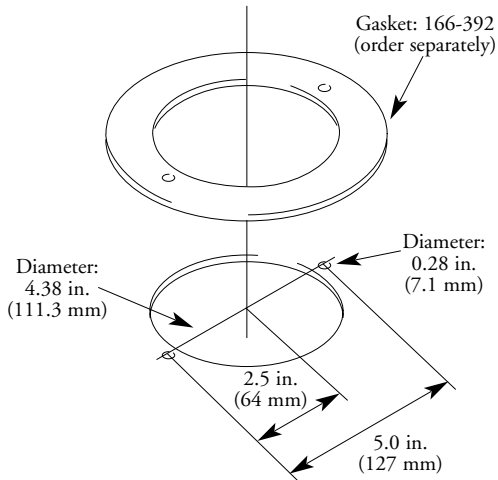
Technical Specifications

- Max. fluid working pressure . . . 3600 psi (25 MPa, 250 bar)
- Maximum air input pressure . . . 120 psi (0.8 MPa, 8 bar)
- Fluid Flow at 60 cpm 1 gpm (3.8 lpm)
- Volume per cycle 2.1 oz (62 cc)
- Air inlet size 1/2 npt (f)
- Fluid inlet size 3/4 npt(m)
- Fluid outlet size 3/8 npt(f)
- Weight
 - 223-843, 223-586 24 lb (11 kg)
 - 221-075 30 lb (14 kg)
- Instruction manuals
 - 223-843 308-106
 - 223-586, 221-075 306-981

Dimensions

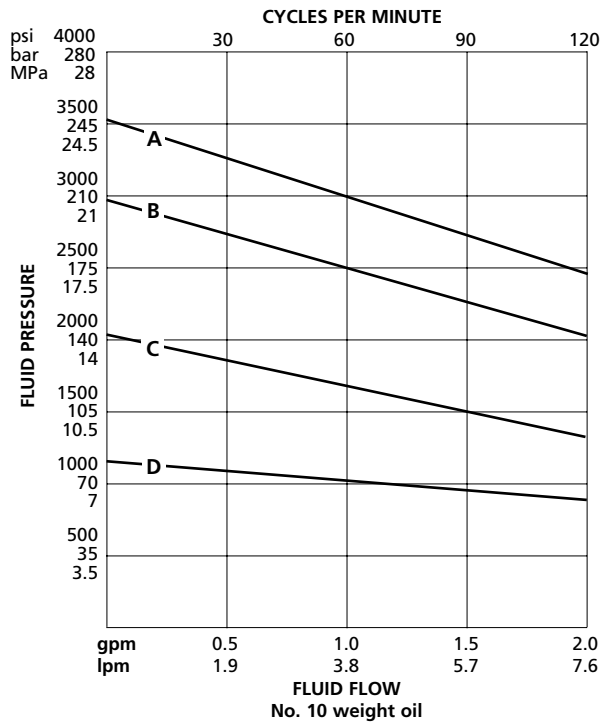


Mounting Hole Layout

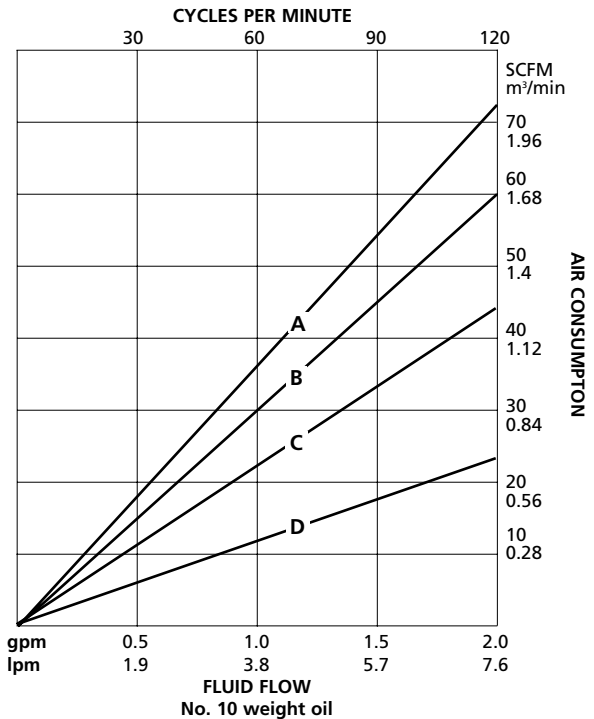


Performance Charts President 30:1

Fluid Pressure



Air Consumption



- Air Pressures:
- A = 120 psi (0.8 MPa, 8 bar)
 - B = 100 psi (0.7 MPa, 7 bar)
 - C = 70 psi (0.48 MPa, 4.8 bar)
 - D = 40 psi (0.28 MPa, 2.8 bar)

Ordering Information for President 30:1 Pump

Order number includes motor and pump lower assembly

Order Nos.	221-075	223-586	223-843
Pump Lower			
Part No.	223-587	223-587	223-842
Construction	CS	CS	SST
Standard Seal Repair Kits	235-635	235-635	223-675
Construction	Teflon®/Leather	Teflon/Leather	UHMWPE/Leather
Optional Seal Repair Kits	223-675	223-675	NA
Construction	UHMWPE/Leather	UHMWPE/Leather	
Motor			
Repair Kit	207-385	207-385	206-728

SERVICE PARTS INFORMATION

Pump Lower Part Nos.	223-587	223-587	223-842
Displacement Rod	223-589	223-589	223-589
Construction	SST	SST	SST
Cylinder	178-902	178-902	178-902
Construction	SST	SST	SST
Intake Valve (order separate part numbers)			
Intake Ball	112-721	112-721	101-750
Intake Valve Seat	223-593	223-593	223-593
Piston Valve (order separate part numbers)			
Piston Ball	112-722	112-722	102-119
Seat	223-565	223-565	223-565

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COMPONENTS

Accessories

237-569 Grounding Clamp & Wire

Length: 25 ft (7.6 m), 12 gauge (1.5 mm²)

107-142 Bleed-type Master Air Valve

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

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

106-149 Air Line Filter

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

Inlet and outlet: 1/2 npt(f).

214-848 Air Line Lubricator

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

Bowl capacity: 8 oz. (0.24 liter).

Inlet and outlet: 1/2 npt(f).

202-858 Air Regulator

Maximum 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)
205-273	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)

Fluid Drain Valve

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)

223-160 Fluid Filter

Maximum working pressure: 5000 psi (35 MPa, 350

bar). Screen: 60 mesh (250 micron), SST.

Replacement Fluid Filter Screens

For fluid filter 223-160. Three per pack.

238-443 30 mesh

238-445 60 mesh

238-447 100 mesh

Grounded Nylon Fluid Hose

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

Part No.	ID	Length	Thread, CS
214-914	1/4 in. (6.3 mm)	25 ft. (7.6 m)	1/4 npt(f)
214-915	1/4 in. (6.3 mm)	50 ft. (15.2 m)	1/4 npt(f)
215-244	3/8 in. (9.5 mm)	25 ft. (7.6 m)	3/8 npt(m)
215-245	3/8 in. (9.5 mm)	50 ft. (15.2 m)	3/8 npt(m)
215-246	3/8 in. (9.5 mm)	100 ft. (30.4 m)	3/8 npt(m)

Graco Throat Seal Liquid

206-995 1 quart (0.95 liter)

206-996 1 gallon (3.8 liter)

207-365 Wall Bracket

214-961 Suction Hose, Neoprene

Maximum working pressure: 500 psi (3.5 MPa, 35 bar).

Length: 6 ft. (1.8 m). Coupled 3/4 npt (mbe).

206-266 55 Gallon (200 liter) Suction Tube

231-414 SST Drum Agitator Package

Includes heavy duty agitator, cover, siphon kit and elevator.