



# King 20:1 Air-Powered Pump

- **Higher pressure ratio for higher flows, longer hose lengths and better atomization**
- **More durable than ever before with longer life packing design**
- **Improved serviceability with fewer parts for fast repairs and lower overall maintenance and ownership costs**

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

Graco's medium pressure King 20:1 air-powered pump is popular in the industry because of its high flow capability for supplying multi-gun airless and air-assisted systems.

The 20:1 pressure ratio produces sufficient pressure to atomize most medium viscosity paints and coatings, using airless or air-assisted applications. The 20:1 King is also commonly used for cleaning applications.

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**

- Solventborne paints and coatings
- Waterborne paints and coatings
- Water

#### **Typical Applications**

- Airless spray systems
- Air assisted airless spray systems
- Cleaning systems



222-832

COMPONENTS

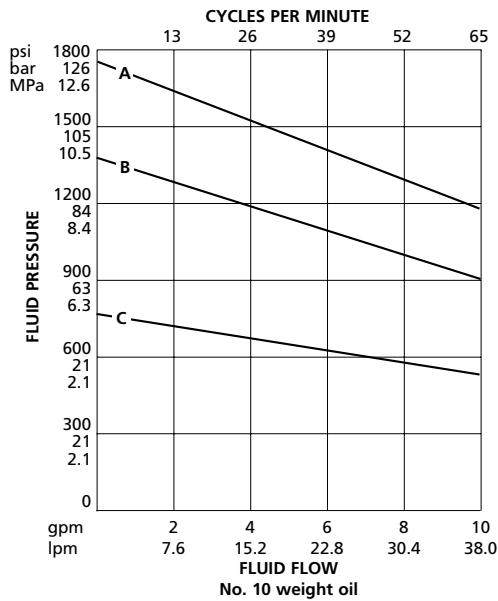
# Technical Specifications

**Maximum fluid pressure** . . . 1800 psi (12.6 MPa, 126 bar)  
**Maximum air input pressure** . . . . 90 psi (0.6 MPa, 6 bar)  
**Fluid Flow at 60 cpm** . . . . . 7.7 gpm (29.1 lpm)  
**Volume per cycle** . . . . . 19.7 oz (582.5 cc)  
**Air inlet size** . . . . . 3/4 npsm(f)  
**Fluid inlet size** . . . . . 2 npt(f)

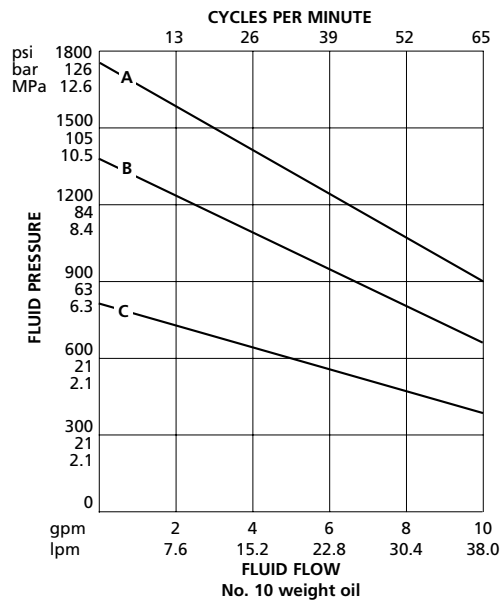
**Fluid outlet size** . . . . . 1-1/2 npt(m)  
**Weight** . . . . . 152 lb (69 kg)  
**Instruction manuals**  
**Carbon steel** . . . . . 308-151  
**Stainless steel** . . . . . 308-152

# Performance Charts for King 20:1 Pump

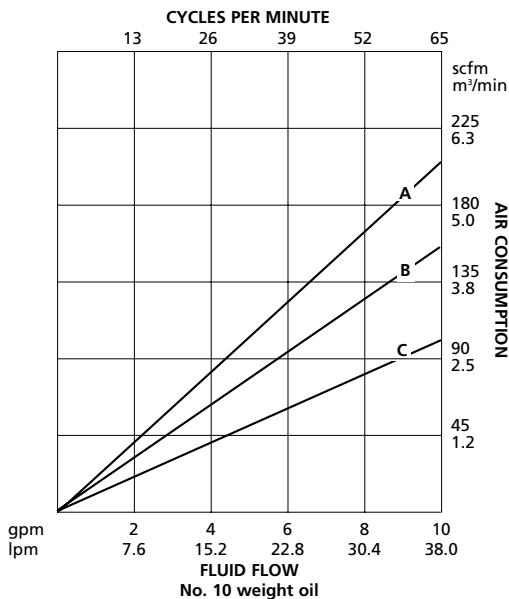
Standard Air Motor Fluid Pressure



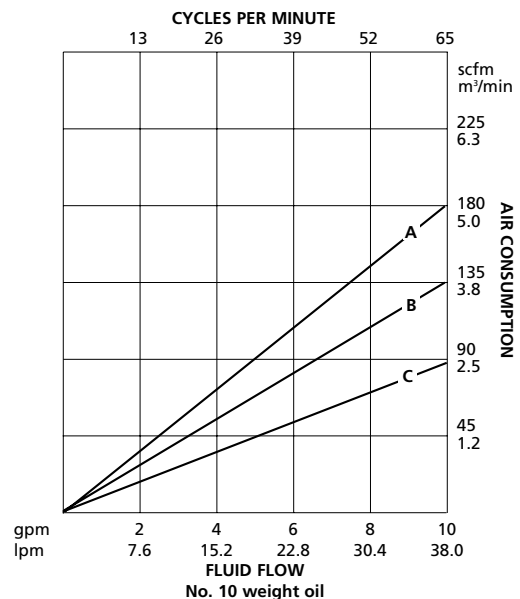
Quiet Air Motor Fluid Pressure



Standard Air Motor Air Consumption



Quiet Air Motor Air Consumption



# Ordering Information for King 20:1 Pump

Order number includes motor and pump lower assembly

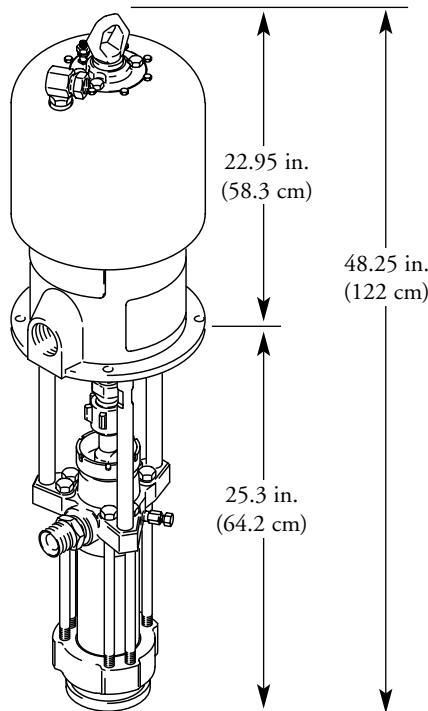
Order Nos.	222-832	222-833	222-898	222-899
<b>Pump Lower</b>				
Part No.	222-801	222-801	222-803	222-803
Construction	CS	CS	SST	SST
Standard Seal Repair Kit	222-879	222-879	222-875	222-875
Construction	Teflon®/Leather	Teflon/Leather	UHMWPE/Teflon	UHMWPE/Teflon
Optional Seal Repair Kits Available	222-875	222-875	222-880	222-880
Construction	UHMWPE/ Teflon	UHMWPE/ Teflon	UHMWPE/ Carbon-Filled Teflon	UHMWPE/ Carbon-Filled Teflon
<b>Motor</b>				
Repair Kit	207-730	220-153	220-153	207-730

## SERVICE PARTS INFORMATION

Pump Lower Part Nos.	222-801	222-801	222-803	222-803
Displacement Rod	184-002	184-002	184-002	184-002
Construction	SST	SST	SST	SST
Cylinder	184-003	184-003	184-003	184-003
Construction	SST	SST	SST	SST
<b>Intake Valve (order separate part numbers)</b>				
Intake Ball	102-974	102-974	110-294	110-294
Intake Valve Seat	222-794	222-794	222-838	222-838
<b>Piston Valve (order separate part numbers)</b>				
Piston Ball	108-001	108-001	109-220	109-220
Seat	222-802	222-802	222-802	222-802
Ball Guide	184-297	184-297	184-297	184-297

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## Dimensions



## Accessories

### 224-040 Pump Runaway Valve

Maximum working pressure: 120 psi (0.8 MPa, 8.4 bar)

### 107-141 Bleed-Type Master Air Valve

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

### 106-150 Air Line Filter

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

### 214-849 Air Line Lubricator

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

### 207-651 Air Pressure Regulator 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)

Part No.	Length
208-610	6 ft (1.8 m)
205-548	15 ft (4.5 m)
208-611	25 ft (7.6 m)
208-612	50 ft (15.2 m)

### 237-569 Ground Wire and Clamp

Length: 25 ft. (7.6 m), 12 gauge (1.5 mm<sup>2</sup>)

### Fluid Drain Valve

Maximum working Pressure: 5000 (35 MPa, 350 bar). CS.

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

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

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

### 214-625 Fluid Filter

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

### Stainless Steel Filter Screens, 3 pack

**238-435** 30 mesh (595 micron)

**238-437** 60 mesh (250 micron)

**238-439** 100 mesh (149 micron)

**238-441** 200 mesh (75 micron)

### 238-890 SST Fluid Regulator

Maximum working pressure: 6000 (41 MPa, 408 bar)

Regulator Range: 500-3000 psi (3.4-21 MPa, 34-210 bar).

Maximum flow rate: 2 gpm (7.57 lpm). Includes fluid gauge.

### Grounded Nylon Fluid Hose

Maximum working pressure: 3000 psi (21 MPa, 210 bar)

Part No.	ID	Length	Thread
<b>214-700</b>	3/16 in (5 mm)	2 ft (0.6 m)	1/4 npsm(fbe)
<b>214-701</b>	3/16 in (5 mm)	3 ft (0.9 m)	1/4 npsm(f) x 1/4 npt(m)
<b>223-540</b>	1/4 in (6.3 mm)	25 ft (7.6 m)	1/4 npsm(fbe)
<b>223-541</b>	1/4 in (6.3 mm)	50 ft (15.2 m)	1/4 npsm(fbe)
<b>214-703</b>	3/8 in (9.5 mm)	25 ft (7.6 m)	3/8 npt(mbe)
<b>214-705</b>	3/8 in (9.5 mm)	50 ft (15.2 m)	3/8 npt(mbe)
<b>214-920</b>	3/8 in (9.5 mm)	100 ft (30.4 m)	3/8 npt(mbe)

### Airless Spray Guns

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

**235-462** For fine finish

**235-460** For medium viscosity fluids

**235-461** For medium viscosity fluids

**235-463** For medium viscosity fluids

### Gun Swivels

Maximum working pressure: 3600 psi (25 MPa, 250 bar)

Part No.	Packings	OD	ID
<b>239-663</b>	Leather	1/4 npsm(f)	1/4 npt(m)
<b>223-341</b>	Teflon	1/4 npsm(f)	1/4 npt(m)

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

**214-925** Leather 1/4 npsm(f) x 3/8 npt(f)

**214-926** Leather 1/2 npsm(f) x 3/8 npt(f)

### 239-394 Swivel with Built-in Filter

Maximum working pressure: 5800 psi (48 MPa, 406 bar)

### 206-221 Wall Mounting Bracket

### 224-043 Heavy Duty Portable Cart

### 222-699 Floor Stand Kit

### 222-916 Suction Kit

### 184-545 Pump Extension Tube

### 222-955 Anti-Seize Lubricant

### Graco Throat Seal Liquid

**206-995** 1 quart (0.95 liter)

**206-996** 1 gallon (3.8 liter)