



# King 3:1 High-Flo<sup>®</sup> Pump

- **Pressure output capacity of 270 psi (1.8 MPa, 18 bar)**
- **Excellent abrasion and corrosion resistance using Graco SevereDuty™ wear parts**
- **Wetted parts of stainless steel and carbon steel to meet wide range of fluids**
- **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**

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

The best medium volume, low pressure performers for circulating supply of light to medium viscosity fluids. Driven by the reliable King air motor which is life tested to 10,000,000 cycles. These high volume circulating pumps will allow you to handle larger flow requirements while operating 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. These are all great reasons for choosing High-Flo pumps for your circulating and transfer applications.

### Typical Fluids Handled

#### Stainless Steel Models

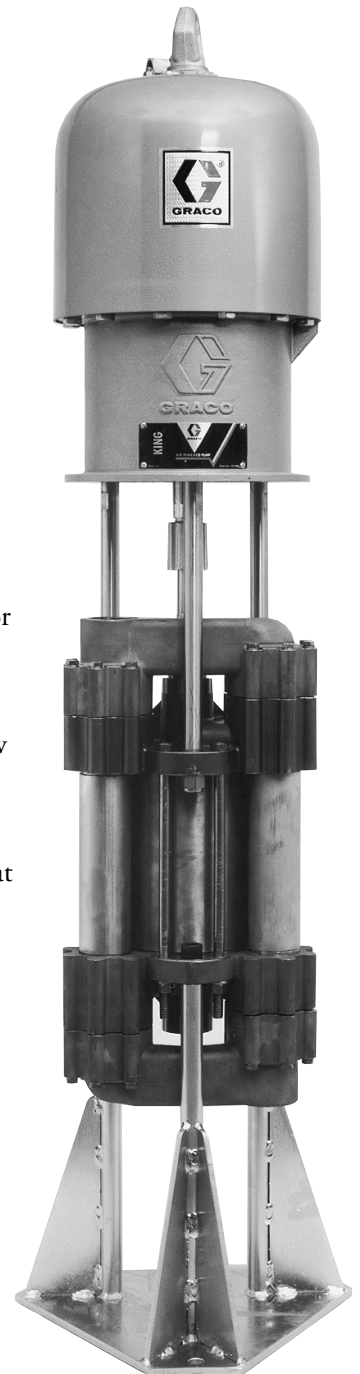
- Waterborne paints
- Acid catalyzed varnishes, enamels, and lacquers

#### Carbon Steel Models

- Solventborne paints

### Typical Applications

- Paint circulation, supply and transfer



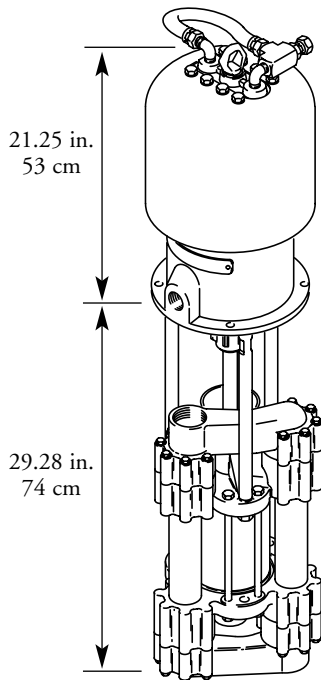
218-528  
shown with stand mount  
(218-742) not included

COMPONENTS

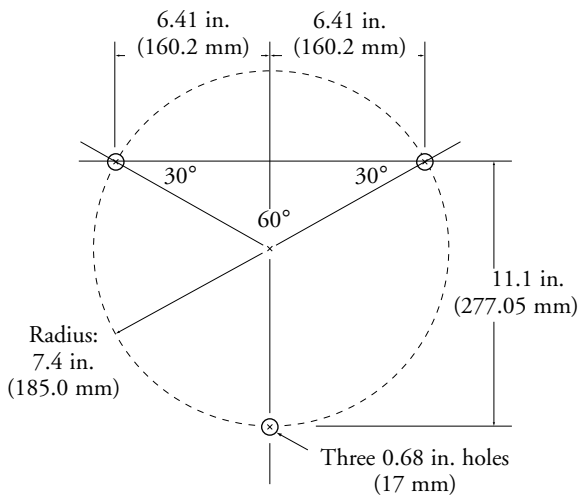
## Technical Specifications

**Maximum fluid pressure** . . . . . 270 psi (1.8 MPa, 18 bar)  
**Maximum air input pressure** . . . 90 psi (0.63 MPa, 6.3 bar)  
**Fluid Flow at 60 cpm** . . . . . 63 gpm (238 lpm)  
**Volume per cycle** . . . . . 1 gal. (3.8 liter)  
**Air inlet size** . . . . . 3/4 npsm(f)  
**Fluid inlet size** . . . . . 2 npt(f)  
**Fluid outlet size** . . . . . 2 npt(f)  
**Instruction manual** . . . . . 307-678

## Dimensions

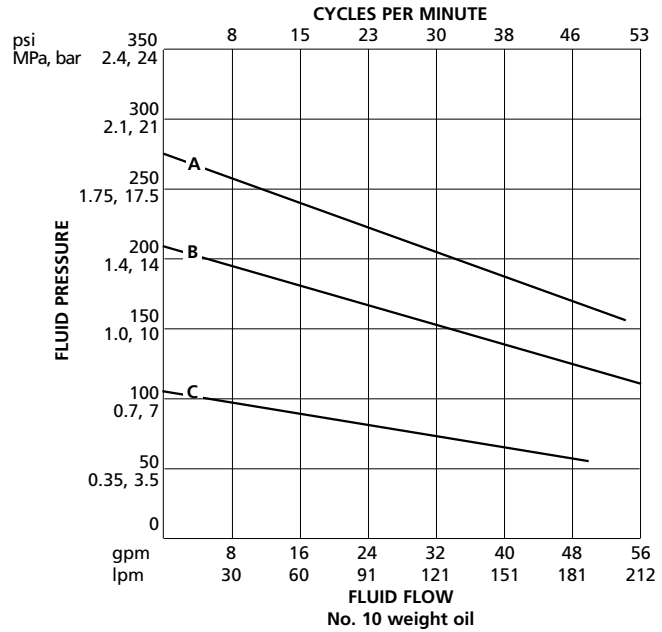


## Mounting Hole Layout

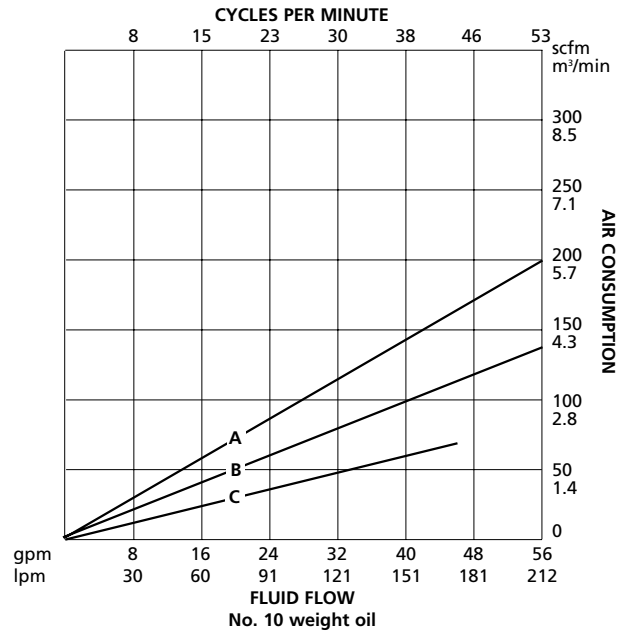


## Performance Chart for King 3:1 High-Flo Pump

### Fluid Pressure



### Air Consumption



### Air Pressures

A = 90 psi (0.6 MPa, 6.3 bar)  
 B = 70 psi (0.48 MPa, 4.8 bar)  
 C = 40 psi (0.28 MPa, 2.8 bar)  
 Fluid tested in no. 10 weight motor oil

# Ordering Information for King 3:1 High-Flo Pump

**Order number includes motor and pump lower assembly**

<b>Order Nos.</b>	<b>218-528</b>	<b>218-529</b>
<b>Pump Lower</b>		
Part No.	218-530	218-531
Construction	CS	SST
<b>Standard Piston Seal Repair Kit</b>		
Construction	UHMWPE	UHMWPE
<b>Piston Seal Conversion Kit</b>		
Construction	Teflon®	Teflon
<b>Throat Packing Kits</b>		
<b>All Models</b>		
	218-774 UHMWPE (3 packings)	
	218-733 Teflon (3 packings)	
	218-734 Leather (3 packings)	
	237-566 UHMWPE/Leather conversion (7 packings)	
	237-605 Teflon/Leather conversion (7 packings)	
<b>Motor</b>		
220-153: Repair Kit		

## SERVICE PARTS INFORMATION

<b>Pump Lower Part Nos.</b>	<b>218-530</b>	<b>218-531</b>
<b>Cylinder</b>		
Construction	SST	SST
<b>Intake Valve (order separate part numbers)</b>		
Intake Ball	102-974	110-294
Relief Valve Seat	237-744	237-744
<b>Check Valve (order separate part numbers)</b>		
Check Ball	102-974	110-294
Seat	180-529	180-529

Teflon® is a registered trademark of Du Pont

COMPONENTS

## Accessories

### 220-581 Pump Floor Stand

### 218-742 Mounting Stand Kit

For pump and High-Flo surge tanks, below.

### High-Flo Surge Tank

Reduces fluid pulsations in the fluid line. Rated 60 gpm (228 lpm)

**218-509** CS. Inlet/outlet: 2 npt(f).

**238-983** SST. Inlet/outlet: 2 npt(f).

**238-984** SST. Inlet/outlet: 2 in. Tri-clamp® compatible.

**238-985** SST. Inlet/outlet: 1.5 in. Tri-clamp compatible.

### Gun Drop Regulator

**214-706** Maximum working pressure: 250 psi (1.7 MPa, 17 bar). Maximum flow: 3 gpm (11.3 lpm). SST. Range: 5-100 psi (0.034-0.7 MPa, 0.34-7 bar).

**217-314** Maximum working pressure: 250 psi (1.7 MPa, 17 bar). Maximum flow: 3 gpm (11.3 lpm). SST. Range: 20-160 psi (0.136-1.08 MPa, 1.36-10.8 bar).

### Back Pressure Valve

**224-486** For shear-sensitive materials. 1-1/2 npt(fbe). Maximum working pressure: 200 psi (1.36 MPa, 13.6 bar). Maximum flow: 20 gpm (75.7 lpm). SST. Range: 0.5-200 psi (0.0034-1.36 MPa, 0.034-13.6 bar).

**208-997** For non-shear-sensitive materials. Maximum working pressure: 200 psi (1.36 MPa, 13.6 bar). Maximum flow: 15 gpm (56.7 lpm). SST. Range: 5-180 psi (0.034-1.22 MPa, 0.34-12.24 bar).

### 220-965 Fluid Pressure Relief Valve

300 psi (2.1 MPa, 21 bar).

### 224-040 Pump Runaway Valve

Maximum working pressure: 120 psi (0.8 MPa, 8.4 bar). Inlet and outlet: 3/4 npt(f).

### 915-700 Fluid Drop Line Filter

Maximum working pressure: 500 psi. (3.4 MPa, 34 bar). SST. Maximum flow: 3 gpm (11.3 lpm).

### 217-073 Filter Regulator Lubricator

### 238-157 Heavy Duty SST Agitator

Drum length. Add extensions, below, for tanks.

### Extensions for Agitator

**191-920** For total shaft length of 39 in. (990 mm).

**191-606** For total shaft length of 48 in. (1218 mm).

### Throat Seal Liquid (TSL)

Non-evaporating liquid for wetcups

**206-995** 1 qt. (0.95 liter)

**206-996** 1 gal. (3.8 liter)

### 110-183 90° Street Elbow

For pump inlet and outlet. 2 npt(mxf).

### 222-955 Anti-Seize Thread Lubricant

Use when repairing SST pumps

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