

# Specifications Model BP8176

	U.S.	(Metric)
Flow .....	132 GPM .....	(500 LPM)
Maximum Discharge Pressure.....	1500 PSI .....	(100 bar)
Maximum Inlet Pressure .....	Up to 90 PSIG .....	6.2 Bar
Power Required .....	129 HP .....	96 kW
Pump Speed .....		520 RPM
Plunger Diameter .....	2.99" .....	76mm
Stroke .....	2.83" .....	72mm
Pinion Shaft Diameter .....	1.77" .....	(45 mm)
Key Width .....		14mm x 9mm x 70mm
Crankshaft Mounting.....		Either Side
Shaft Rotation .....	Top of pulley towards manifold	
Temperature of Pumped Fluids.....	Up to 104 °F .....	(40 °C)
Inlet Port .....	2 x 3" BSP	
Discharge Port .....	2 x 1-1/2" BSP	
Weight.....	738 lbs .....	(335 Kg)
Crankcase Oil Capacity .....	4.2 Gal .....	16 Liters
Fluid End Material .....	Spheroidal Cast Iron	

Consult the factory for special requirements that must be met if the pump is to operate beyond one or more of the limits specified above.

<b>BP8176 HORSEPOWER</b>					
RPM	GPM	500 PSI	1000 PSI	1250 PSI	1500 PSI
100	25.4	8.8	17.5	21.9	26.3
200	50.8	17.5	35.0	43.8	52.5
300	76.2	26.3	52.5	65.6	78.8
400	101.5	35.0	70.0	87.5	105.0
520	132.0	45.5	91.0	113.8	136.6

**HORSEPOWER RATINGS:**

The rating shown are the power requirements for the pump. Gas engine power outputs must be approximately twice the pump power requirements shown above.

We recommend a 1.15 service factor be specified when selecting an electric motor as the power source. To compute specific pump horse power requirements, use the following formula:

$$\frac{\text{GPM} \times \text{PSI}}{1450} = \text{HP}$$

**SPECIAL NOTE:**  
 The theoretical gallons per revolution (gal/rev) is 0.25.  
 To find specific outputs at various RPM, use the formula:

GPM = 0.25 x RPM

# BP8176 Dimension (mm)

