

Specifications

Model GP8040-5100

	U.S.	(Metric)
Flow	39.6 GPM	(150 LPM)
Discharge Pressure	5510 PSI	(380 bar)
Maximum Crankshaft Speed	580 RPM	
Power Consumption	146 BHP	109 kW
Inlet Pressure	Up to 29 PSI	(2.0 bar)*
Plunger Diameter.....	1.57"	40 mm
Plunger Stroke.....	2.83"	72 mm
Pinion Shaft Diameter.....	1.77"	45 mm
Fitting Key	14 mm x 70 mm	
Crankshaft Mounting	Either side	
Pinion Shaft Rotation.....	Towards Gear End of pump	
Temperature of Pumped Fluids	Up to 86 °F	(30 °C)**
Inlet Ports	(2) 2" NPT	
Discharge Ports	(2) 1" NPT	
Weight	767 lbs.	(349 kg)
Crankcase Oil Capacity	4.2 Gal.	(16.0 liters)
Fluid End Material.....	AISI 316 Stainless Steel	
NPSHR.....	24.6 ft.-head.....	7.5 mWs

(The specifications above are based on maximum pressure and maximum RPM for intermittent duty using cold water.)

Based on driver type, input speeds may vary.

* If a separate cooling circuit is installed, the maximum inlet pressure would be 145 PSI (10 Bar).

** If higher temperatures are needed, use a separate cooling circuit. Consult factory.

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.

GP8040-5100 HORSEPOWER REQUIREMENTS					
RPM	GPM	2000 PSI	3000 PSI	4000 PSI	5510 PSI
300	20.5	28.2	42.4	56.6	77.9
400	27.3	37.7	56.5	75.3	103.7
500	34.1	47.0	70.6	94.1	129.6
580	39.6	54.6	81.9	109.2	150.5

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 horsepower requirements, use the following formula:

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

SPECIAL NOTE:
 The theoretical gallons per revolution (gal/rev) is 0.0683.
 To find specific outputs at various RPM, use the formula:

$$\text{GPM} = 0.0683 \times \text{RPM}$$