

Specifications

Model GP8048-5100

	U.S.	(Metric)
Volume	Up to 56.3 GPM	(213 LPM)
Discharge Pressure	Up to 3770 PSI	(260 bar)
Power Consumption	142 BHP	106 kW
Speed	Up to 580 RPM	580 RPM
Inlet Pressure.....	Up to 29 PSI*	(2.0 bar)*
Plunger Diameter.....	1.89".....	48mm
Plunger Stroke	2.83".....	72mm
Crankshaft Diameter.....	2.76".....	70mm
Key Width	0.55".....	14mm
Crankshaft Mounting.....		Either side
Shaft Rotation		Top of pulley towards manifold
Temperature of Pumped Fluids.....	Up to 86 °F	(30 °C)
Inlet Ports.....		(2) 3" BSP
Discharge Ports		(2) 1-1/4" BSP
Weight.....	771 lbs.	(350kg)
Crankcase Oil Capacity	3.3 Gal.	(12.5 liters)
Fluid End Material.....		AISI 316 Stainless Steel

*If operating the pump below 100 HP (75 kW) the oil cooler system can be removed and the inlet pressure can be increased to 145 PSI (10 bar).

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.

GP8048-5100					
Horsepower Requirements					
RPM	GPM	1000 PSI	2000 PSI	3000 PSI	3770 PSI
300	29.1	20.1	40.1	60.2	75.7
400	38.8	26.8	53.5	80.3	100.9
500	48.5	33.5	66.9	100.4	126.1
580	56.3	38.8	77.7	116.5	146.4

SPECIAL NOTE:
 The theoretical gallons per revolution (gal/rev) is 0.0979. To find specific outputs at various RPM, use the formula:

$$\text{GPM} = 0.0979 \times \text{RPM}$$

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:

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