Specifications Model GP8045-5100

	U.S.	(Metric)				
Volume	. Up to 48.9 GPM	.(185 LPM)				
Discharge Pressure	. Up to 4350 PSI	.(300 bar)				
Power Consumption						
Speed						
Inlet Pressure						
Plunger Diameter	. 1.77"	.(45mm)				
Plunger Stroke	. 2.83"	.(72mm)				
Crankshaft Diameter						
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						
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						

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.

GP8045-5100						
Horsepower Requirements						
RPM	GPM	1000 PSI	2000 PSI	3000 PSI	4350 PSI	
300	25.3	17.4	34.9	52.3	75.9	
400	33.7	23.2	46.5	69.7	101.1	
500	42.2	29.1	58.2	87.3	126.6	
580	48.9	33.7	67.5	101.2	146.7	

SPECIAL NOTE:

be increased to 145 PSI (10 bar).

The theoretical gallons per revolution (gal/rev) is 0.0843. To find specific outputs at various RPM, use the formula:

 $GPM = 0.0843 \times RPM$

HORSEPOWER RATINGS:

The rating shown are the power requirements for the <u>pump</u>. 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:

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