Specifications Model GP8045-3100

	U.S.	(Metric)				
Volume	Up to 48.9 GPM	.(185 LPM)				
Discharge Pressure	Up to 4350 PSI	.(300 bar)				
Power Consumption	143 BHP	.(107 kW)				
Speed		.Up to 580 RPM				
Inlet Pressure						
Plunger Diameter	1.77"	(45mm)				
Plunger Stroke						
Crankshaft Diameter		,				
Key Width		,				
Crankshaft Mounting						
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		` '				
Crankcase Oil Capacity		` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `				
Fluid End Material						
*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.

GP8045-3100						
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:

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:

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