

Specifications

Model P422A-5100

	U.S.	(Metric)
Volume	10 GPM	(38 lm)
Discharge Pressure	2500 PSI	(172 bar)
Inlet Pressure	140 PSI	(9.7 bar)
Stroke	0.94"	24mm
RPM		1450RPM
Plunger Diameter		22mm
Temperature of Pumped Fluids	Up to 160 °F	(71 °C)
Inlet Ports		(2) 3/4" BSP
Discharge Ports		(2) 3/4" BSP
Shaft Rotation		Top of pulley towards fluid end
Crankshaft Diameter		28mm
Key Width		8mm
Shaft Mounting		Either side ¹
Weight	36lbs. 11oz.	(0.52 kg)
Crankcase Capacity	30fl.oz.	(0.89 liters)
Volumetric Efficiency @ 1450		0.95
Mechanical Efficiency @ 1450		0.86

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.

PULLEY INFORMATION

Pulley selection and pump speed are based on a 1725 RPM motor and "B" section belts. When selecting desired GPM, allow for a ±5% tolerance on pumps output due to variations in pulleys, belts and motors among manufacturers.

1. Select GPM required, then select appropriate motor and pump pulley from the same line.
2. The desired pressure is achieved by selecting the correct nozzle size that corresponds with the pump GPM.

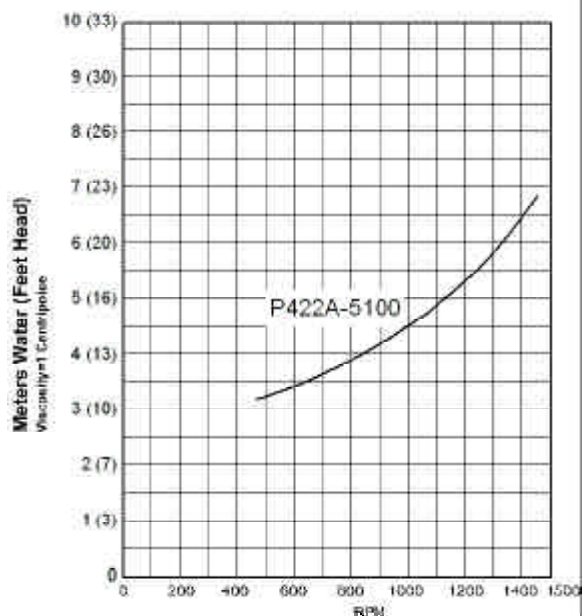
HORSEPOWER INFORMATION

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

We recommend that a 1.1 service factor be specified when selecting an electric motor as the power source. To compute specific pump horsepower requirements, use the following formula:

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

P422A-5100 NPSHR Chart



P422-5100 HORSEPOWER REQUIREMENTS						
RPM	GPM	1000 PSI	1500 PSI	2200 PSI	2500 PSI	3000 PSI
900	6.2	4.3	6.4	9.3	10.7	12.8
1050	7.2	5.0	7.4	10.8	12.4	14.9
1160	8.0	5.5	8.3	12.1	13.8	16.6
1300	8.9	6.1	9.2	13.4	15.3	18.4
1450	10.0	6.9	10.3	15.1	17.2	20.7