

# CP465-0023/CP465-4023 Pump Specifications

	<u>U.S.</u>	<u>Metric</u>
Volume.....	3.3 GPM*	12.4 L/min*
Discharge Pressure.....	5800 PSI	400 Bar
Inlet Pressure.....	14-870 PSI	1-60 Bar
Stroke.....	0.98"	24 mm
Speed.....		150 to 750 RPM
Plunger Diameter.....	0.71"	18 mm
Temperature of Pumped Fluids.....	-40 °F to 160 °F	-40 °C to 70 °C
Inlet Ports.....		(2) x 1/2" BSP
Discharge Ports.....		(2) x 3/8" BSP
Shaft Rotation.....		Top of pulley towards fluid end
Crankshaft Diameter.....	1.10"	28 mm
Key Width.....	0.31"	8 mm
Shaft Mounting.....		Either side <sup>1</sup>
Weight.....	42 lbs.	19 KG
Crankcase Capacity.....	27 fl.oz.	0.8 Liter
Manifold Material (CP465-0023).....		Brass
Manifold Material (CP465-4023).....		303 Stainless Steel

\*Based on 90% volumetric efficiency. Inlet conditions will dictate actual performance.

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.

## <sup>1</sup>NOTES:

In order to drive the pump from the side opposite the present shaft extension, simply remove the valve casing from the crankcase and rotate the pumps 180 degrees to the desired position. Be certain to rotate the seal case (item #20) as well, so that the weep holes are down at the six o'clock position. Exchange the oil fill and the oil drain plugs, also. Refer to the repair instructions as necessary for the proper assembly sequence.

## 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 horse power requirements, use the following formula:

$$HP = (GPM \times PSI) / 1450$$

CP465-0023 and CP465-4023 Horsepower Requirements					
RPM	GPM	3000 PSI	4000 PSI	5000 PSI	5800 PSI
150	0.67	1.4	1.9	2.3	2.7
250	1.1	2.3	3.0	3.8	4.4
350	1.5	3.1	4.1	5.2	6.0
450	2.0	4.1	5.5	6.9	8.0
550	2.4	5.0	6.6	8.3	9.6
650	2.9	6.0	8.0	10.0	11.6
750	3.3	6.8	9.1	11.4	13.2