CP16 Specifications

Specifications for CP16 Series

| Description |
|---|
| Flow Range To 38 GPM (143.8 LTR) |
| Displacements To 3.904 C.I.R. (63.74 CC's/REV.) |
| Maximum Pressure to |
| Maximum Speed to |
| Rotation A or C |
| BearingsJournal |
| Construction Cast Iron Gear Plates with Aluminum Flange and Cover Plate |



Performance Data

| | | | | Displace | ement/Re | volution | Maximum Pressure | | | | | | | | Max. |
|---------------|-----------------|---------------|-----------------|----------|-------------|---------------------|------------------|-----|-----------|-----|-----------|-----|-------------------|-----|-------|
| | | | (Theoretical) | | | | 'V' Belt Drive | | | | | | Flat Ribbed Drive | | Speed |
| | | | | | | | Clutch #1 | | Clutch #2 | | Clutch #3 | | Clutch #4 | | |
| Pump Model | Section Size | US Gallons | Cubic Inches | Liters | Cubic CM | Imperial Gallons | PSI | BAR | PSI | BAR | PSI | BAR | PSI | BAR | RPM |
| P16 | 45 | .0038 | .878 | .0144 | 14.39 | .0031 | 3000 | 207 | 3000 | 207 | 3000 | 207 | 3000 | 207 | 3600 |
| P16 | 65 | .0055 | 1.270 | .0208 | 20.83 | .0045 | 3000 | 207 | 3000 | 207 | 3000 | 207 | 3000 | 207 | 3600 |
| P16 | 85 | .0072 | 1.663 | .0273 | 27.27 | .0060 | 2800 | 193 | 3000 | 207 | 3000 | 207 | 3000 | 207 | 3400 |
| P16 | 100 | .0085 | 1.964 | .0321 | 32.21 | .0070 | 2400 | 165 | 3000 | 207 | 3000 | 207 | 3000 | 207 | 3300 |
| P16 | 115 | .0097 | 2.241 | .0367 | 36.75 | .0080 | 2000 | 138 | 2900 | 200 | 3000 | 207 | 2900 | 200 | 3100 |
| P16 | 150 | .0127 | 2.934 | .0481 | 48.11 | .0105 | 1500 | 103 | 2600 | 179 | 3000 | 207 | 2600 | 179 | 2800 |
| P16 | 180 | .0152 | 3.511 | .0575 | 57.57 | .0125 | 1200 | 83 | 2100 | 145 | 2200 | 152 | 2100 | 145 | 2500 |
| P16 | 200 | .0169 | 3.904 | .0639 | 63.94 | .0140 | 1100 | 76 | 1900 | 131 | 2000 | 138 | 1900 | 131 | 2200 |

All data based on SAE 10W oil at 150°F. Available with Viton® Seals.



CAUTION: "Inlet vacuum" should not exceed 5" Hg at normal operating speed and temperature. Operation of pumps in excess of 5" Hg requires factory approval.

Operating Notes

 Detailed installation and operating instructions are included in each clutchpump package. Consult those instructions before installation and/or operation.
 Clutch Data:

Clutch No. 1 — 12 V.D.C.; 4.26 amps; 2.82 ohms @ 20°C; 75 Lb. Ft.
Clutch No. 2 — 12 V.D.C.; 4.36 amps; 2.75 ohms @ 20°C; 125 Lb. Ft.
Clutch No. 3 — 12 V.D.C.; 4.58 amps; 2.62 ohms @ 20°C; 200 Lb. Ft.
Clutch No. 4 — 12 V.D.C.; 4.36 amps; 2.75 ohms @ 20°C; 125 Lb. Ft.

3.Burnishing: If full rated torque (or system pressure) is required at start-up, burnishing or cycling of the clutch will be necessary. Burnishing of the clutch can be accomplished by running the engine between 2500 and 3000 RPM and cycling the clutch on and off against the system relief valve. The relief valve should be set at 75% of the maximum pressure rating as shown in the chart above. The clutch should be cycled 50 times at a rate of 10 to 15 cycles per minute.

- 4.Voltage: The torque capability of the clutch varies with the actual voltage measured at the clutch. Do not operate at less than 11.5 volts.
- 5.For maximum clutch life: #1 #2 & #4 should be mounted to run in 'C' rotation. #3 should be mounted to run in 'A' rotation, (looking at the front of the clutch).

Electric Clutch Switch: Order Kit No. 33520



P16 Series Cover Plates

Cover Plates Available for P16 / CP16

Inch equivalents for millimeter dimensions are shown in (**).



