Hydraulic Power Units
D, H and V-Pak Series

Catalog 2600-500-1/USA
**Quick Reference Data Chart**

<table>
<thead>
<tr>
<th>Pump Model No.</th>
<th>Tank Size Gallon (Liters)</th>
<th>Pump Flow GPM (LPM) @ 1725 RPM</th>
<th>Electrical Motors</th>
<th>Maximum * PSI (Bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-Paks</td>
<td>5 (18.9)</td>
<td>0.9 - 2.7 (2.2 - 10.2)</td>
<td>.5 H.P. - 3 H.P.</td>
<td>3000 (207)</td>
</tr>
<tr>
<td>H-Paks</td>
<td>10 (37.9), 20 (75.7), 30 (113.6), 40 (151.4)</td>
<td>0.9-12.7 (2.2 - 48.0)</td>
<td>.5 H.P. - 20 H.P.</td>
<td>3000 (207)</td>
</tr>
<tr>
<td>V-Paks</td>
<td>10 (37.9), 20 (75.7), 30 (113.6), 40 (151.4)</td>
<td>2.0 - 15.6 (7.6 - 59.1)</td>
<td>2 H.P. - 20 H.P.</td>
<td>3000 (207)</td>
</tr>
</tbody>
</table>

* See pump/motor combination, maximum pressure charts.
**Warranty**

The hydraulic components on these Parker Power Units are warranted for one year. This warranty may be extended to two years by using and properly maintaining Parker filters.

**Installation Data:**

See Installation/Maintenance Manual for specific recommendations pertaining to start-up, system cleanliness, fluids, temperature and other important factors relative to proper installation and use of these power units.

**Standard Features**

- Vertical Design
- Submerged Pump
- Spare Return Ports
- Precision Pump Mounting Adapters
- Suction Strainer
- Glycerine Filled Pressure Gage with Shut Off
- Oil Level Gage with Thermometer
- Relief Valve
- Breather and Fill Cap
- SAE Drain Plug
- Parker Connector Technology

**Schematic Symbol**

(Hydraulic Schematic - Basic Unit)

**Benefits**

- Saves Floor Space
- Quieter Operation, Elimination of Potential Leak Point
- Longer Pump Life
- Protects Pump from Contamination
- Improved Diagnostics
- Helps to Maintain Trouble-Free Performance
- Protects Against System Shock
- Easy To Fill Reservoir
- Prevents Leaks
Dimensions - Basic D-Pak (5 Gallon Tank)
Millimeter equivalents for inch dimensions are shown in (**).

<table>
<thead>
<tr>
<th>Motor Code</th>
<th>Motor Description HP-RPM-Frame-Phase</th>
<th>Dimension “A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1</td>
<td>.5 -1725-145TCZ-1</td>
<td>10.62 (269.75)</td>
</tr>
<tr>
<td>C1</td>
<td>.75 -1725-145TCZ-1</td>
<td>11.62 (295.15)</td>
</tr>
<tr>
<td>T1</td>
<td>1 -1725-145TCZ-1</td>
<td>11.62 (295.15)</td>
</tr>
<tr>
<td>T3</td>
<td>1 -1725-145TCZ-3</td>
<td>10.18 (258.57)</td>
</tr>
<tr>
<td>F</td>
<td>1.5 -1725-145TCZ-3</td>
<td>11.18 (283.97)</td>
</tr>
<tr>
<td>G</td>
<td>2 -1725-145TCZ-3</td>
<td>12.06 (306.32)</td>
</tr>
<tr>
<td>K</td>
<td>3 -1725-145TCZ-3</td>
<td>13.44 (341.38)</td>
</tr>
</tbody>
</table>

Filter Option Reference

“O” & “S3” OPTION MANIFOLD
(P & T BLOCK & D03 SINGLE STATION)
SHOWN WITH OPTION “O” RETURN FILTER

“M3” OPTION MANIFOLD
(MULTI-STATION D03 MANIFOLD)
SHOWN WITH OPTION “O” RETURN FILTER
Dimensions - Basic H1 & V1
(10 Gallon Tank)
Millimeter equivalents for inch dimensions are shown in (**).
**Dimensions - Basic H2, 3, 4 & V2, 3, 4**

(20, 30, 40 Gallon Tank)

Millimeter equivalents for inch dimensions are shown in (**).

<table>
<thead>
<tr>
<th>Motor Code</th>
<th>Motor Description</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HP-RPM-Frame-Phase</td>
<td>“A”</td>
</tr>
<tr>
<td>U1</td>
<td>.5 -1725-56C-1</td>
<td>10.50 (266.70)</td>
</tr>
<tr>
<td>C1</td>
<td>.75 -1725-56C-1</td>
<td>11.00 (279.40)</td>
</tr>
<tr>
<td>T1</td>
<td>1 -1725-56C-1</td>
<td>11.75 (298.45)</td>
</tr>
<tr>
<td>T3</td>
<td>1 -1725-56C-3</td>
<td>10.50 (266.70)</td>
</tr>
<tr>
<td>F</td>
<td>1.5 -1725-56C-3</td>
<td>10.75 (273.05)</td>
</tr>
<tr>
<td>G</td>
<td>2 -1725-56C-3</td>
<td>11.75 (298.45)</td>
</tr>
<tr>
<td>K</td>
<td>3 -1725-56C-3</td>
<td>12.62 (320.55)</td>
</tr>
<tr>
<td>L</td>
<td>5 -1725-184TC-3</td>
<td>14.38 (365.25)</td>
</tr>
<tr>
<td>M</td>
<td>7.5 -1725-213TC-3</td>
<td>16.00 (406.40)</td>
</tr>
<tr>
<td>N</td>
<td>10 -1725-215TC-3</td>
<td>16.28 (413.51)</td>
</tr>
<tr>
<td>P</td>
<td>15 -1725-254TC-3</td>
<td>17.63 (447.80)</td>
</tr>
<tr>
<td>S</td>
<td>20 -1725-256TC-3</td>
<td>19.38 (492.25)</td>
</tr>
</tbody>
</table>

**Reservoir Reference**

<table>
<thead>
<tr>
<th>Reservoir Code</th>
<th>Reservoir Size</th>
<th>Dimension “C”</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2 or V2</td>
<td>20 Gallon</td>
<td>19.36 (491.74)</td>
</tr>
<tr>
<td>H3 or V3</td>
<td>30 Gallon</td>
<td>23.62 (599.95)</td>
</tr>
<tr>
<td>H4 or V4</td>
<td>40 Gallon</td>
<td>28.86 (733.04)</td>
</tr>
</tbody>
</table>

---

**Filter Option Reference**

- **“O” & “SS” OPTION MANIFOLD**
  (P & T BLOCK & D05 SINGLE STATION)
  SHOWN WITH OPTION “N” RETURN FILTER

- **“M5” OPTION MANIFOLD**
  (MULTI-STATION D05 MANIFOLD)
  SHOWN WITH OPTION “N” RETURN FILTER
Manifold Options
Millimeter equivalents for inch dimensions are shown in (**).

O MANIFOLD OPTION
FOR SUPPLY & RETURN CONNECTIONS
(5 GAL. RESERVOIR UNITS)

S3 SUBPLATE OPTION
FOR USE WITH D1VW VALVE
(NFPA D03)

O MANIFOLD OPTION
FOR SUPPLY & RETURN CONNECTIONS
(10, 20, 30, 40 GAL. RESERVOIR UNITS)

S5 SUBPLATE OPTION
FOR USE WITH D3W VALVE
(NFPA D05)
Manifold Options

Millimeter equivalents for inch dimensions are shown in (**).

**S6**
SUBPLATE OPTION
FOR USE WITH D31VW VALVE
(NFPA D05H(E) WITH “X” & “Y” PORTS)

**M3**
MULTISTATION MANIFOLD OPTION
FOR USE WITH D1VW VALVE
(NFPA D03)

**M5**
MULTISTATION MANIFOLD OPTION
FOR USE WITH D3W VALVES
(NFPA D05)

**M6**
MULTISTATION MANIFOLD OPTION
FOR USE WITH D31VW VALVES
(NFPA D05H, NO “X” & “Y” PORTS)
(20, 30, 40 GALLON UNITS)
V-Pak – Compensator Options

**“Omit” Option**

Single Pressure Remote Compensator

- **AUX. VENT PORT (SAE-6)**
- **PUMP COMPRESSOR CONTROL ADJUSTMENT**

**“B” Option**

Single Pressure Remote Compensator W/Low Press. Standby

- **Solenoid is 120 VAC (Low Watt)**
- **With Din. 43650 Connector and Manual Override**

**“C” Option**

Bi-Pressure Remote Compensator

- **Solenoid is 120 VAC (Low Watt)**
- **With Din. 43650 Connector and Manual Override**

**“D” Option**

Bi-Pressure Remote Compensator W/Low Press. Standby

- **Solenoid is 120 VAC (Low Watt)**
- **With Din. 43650 Connector and Manual Override**

**“E” Option**

Electrohydraulic Pressure Control

- **Driver Card Attach Point**
- **Solenoid requires 24 VDC, 30 Watt Power Supply (DIN 43650 Connector)**

**“F” Option**

Provision for Customer Supplied Remote Compensator

- **Pump Compensator Pressure (Inlet) Port**
- **Pump Compensator Tank (Return) Port**
- **SAE-6 37 Flare “P” & “T” Ports Attach Points for Customer Supplied Remote Compensator**
Accessory Options
D & H-PAKS

Option B  Return Line Air/Oil Heat Exchanger (B1 or B2)
Option C  Return Line Water/Oil Heat Exchanger
Option D  Return Line Water/Oil Heat Exchanger
Option E  Water Line Temperature Control Valve
Option H  Pressure Filter
Option J  Immersion Heater
Option K  Check Valve – Pump Outlet

Option L  Check Valve – Return Line Bypass
Option M  Return Line Filter
Option N  Return Line Filter
Option O  Return Line Filter
Option R  Combination Temp/Level Switch (R1 or R2)
Option V  Return Line Filter
Option W  Pressure Switch (W1 or W2)
Option Z  Temperature Switch

V-PAKS

Option A  Pump Case Heat Exchanger
Option B  Return Line Air/Oil Heat Exchanger (B1 or B2)
Option C  Return Line Water/Oil Heat Exchanger
Option D  Return Line Water/Oil Heat Exchanger
Option E  Water Line Temperature Control Valve
Option H  Pressure Filter
Option J  Immersion Heater
Option K  Check Valve – Pump Outlet

Option L  Check Valve – Return Line Bypass
Option M  Return Line Filter
Option N  Return Line Filter
Option O  Return Line Filter
Option R  Combination Temp/Level Switch (R1 or R2)
Option V  Return Line Filter
Option W  Pressure Switch (W1 or W2)
Option Z  Temperature Switch

CONNECT TO RETURN LINE WITH OPTION ‘B’
Dimensions - D-Pak (5 Gallon Tank) Accessories

Millimeter equivalents for inch dimensions are shown in (**).
Dimensions - H1 & V1 (10 Gallon Tank) Accessories

Millimeter equivalents for inch dimensions are shown in (**).
Dimensions - H2, 3, 4 & V2, 3, 4 (20, 30, 40 Gallon Tank) Accessories

Millimeter equivalents for inch dimensions are shown in (**).
### Performance Data – Maximum Working Pressures

- **★★★★** Represents maximum operating pressure with pump/motor combination. This will be the maximum relief valve or compensator setting.
- **★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★
NOTE: The efficiencies and data in the graph are good only for pumps running at 1800 RPM and stroked to maximum. To calculate approximate horsepower for the other conditions, use the following formula:

\[ HP = Q \times (\text{PSI}) \times \left( \frac{\text{N}}{1800} \right) + (\text{CHp}) \times \frac{\text{N}}{1800} \]

Actual GPM is directly proportional to drive speed and maximum volume setting. Flow loss, however, is a function of pressure only.

WHERE:
- \( Q \) = Actual Output Flow in GPM
- PSI = Pressure At Pump Outlet
- \( \text{CHp} \) = Input Horsepower @Full compensation @ 1800 RPM (from graph read at operating pressure)
- \( \text{N} \) = Drive Speed in RPM
Performance Data – Heat Exchangers

Air/Oil Heat Exchangers
“A”, “B1” & “B2” used with 1800 RPM TEFC Motors

```
Oil Flow - GPM

Horsepower Removed
By Cooler

A
B1
B2

Oil Pressure Drop
at 100 SSU
- 5 PSI
- 10 PSI
- 20 PSI
```

“A” - Pump Case HT. EX. with 56C-256TC Motors
“B1” - Return Line HT. EX. (D5 Power Units Only)
“B1” - Return Line HT. EX. with 56C-184TC Motors
“B2” - Return Line HT. EX. with 213TC-256TC Motors

Heat removal is based on 40 F differential between transfer medium.

Water/Oil Heat Exchangers
“C” (1:1 Oil/Water Ratio)     “D” (2:1 Oil/Water Ratio)

```
Oil Flow - GPM

Horsepower Removed
By Cooler

C
D

Oil Pressure Drop
at 100 SSU
- 5 PSI
- 10 PSI
```

“C” - Return Line HT. EX. (9 GPM Max.)
“D” - Return Line HT. EX. (4.5 GPM Min.)

Heat removal is based on 40 F differential between transfer medium, using 85 F cooling water.

The Oil/Water ratio of 2:1 means that for every 2 gallons of oil through the cooler, a minimum of 1 gallon of 85 F water must be circulated to achieve curve results.

Horsepower Removed
By Reservoir

<table>
<thead>
<tr>
<th>RESERVOIR SIZE (GALLONS)</th>
<th>HP REMOVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.2</td>
</tr>
<tr>
<td>10</td>
<td>0.38</td>
</tr>
<tr>
<td>20</td>
<td>0.58</td>
</tr>
<tr>
<td>30</td>
<td>0.68</td>
</tr>
<tr>
<td>40</td>
<td>0.81</td>
</tr>
</tbody>
</table>

Heat removal is based on static ambient air at 85 F and max. oil temperature of 135 F.
D-Paks

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>Pressure Control</th>
<th>Pump Flow</th>
<th>Electric Motor</th>
<th>Manifold</th>
</tr>
</thead>
</table>

Ordering Code | Reservoir Size (Gallons)
---|---
D5 | 5

**Note:** Two and three pressure control options with unloading valve available, consult factory.

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Pressure Control Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omit</td>
<td>System Pressure Relief Valve Only</td>
</tr>
<tr>
<td>B</td>
<td>System Pressure Relief Valve with Unloading Valve (2-Way 120VAC) N.O. (Energize coil to close)</td>
</tr>
</tbody>
</table>

**Motor Description**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Motor Description (HP-RPM-Frame-Phase)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1</td>
<td>.5 - 1725 - 145TCZ - 1</td>
</tr>
<tr>
<td>C1</td>
<td>.75 - 1725 - 145TCZ - 1</td>
</tr>
<tr>
<td>T1</td>
<td>1 - 1725 - 145TCZ - 1</td>
</tr>
<tr>
<td>T3</td>
<td>1 - 1725 - 145TCZ - 3</td>
</tr>
<tr>
<td>F</td>
<td>1.5 - 1725 - 145TCZ - 3</td>
</tr>
<tr>
<td>G</td>
<td>2 - 1725 - 145TCZ - 3</td>
</tr>
<tr>
<td>K</td>
<td>3 - 1725 - 145TCZ - 3</td>
</tr>
</tbody>
</table>

Single phase electric motors are rated as follows:
115/200V, 1PH, TEFC - 60 Hertz 1800 RPM
Three phase electric motors are rated as follows:
200-230/460V, 3PH, TEFC - 60 Hertz 1800 RPM
190-220/380-440V, 3PH, TEFC - 50 Hertz 1500 RPM
Consult factory for other motor speeds (RPM) and voltages.

**Use “W” prefix when no motor is required on unit. When ordering, “W” must be followed by motor model code equivalent. Motor coupling will have interface for a 56C frame motor.**

Ordering Code | Pump Used | Comments
---|---|---
0.9 | PGP505A0020 | Available With .5HP
1.3 | PGP505A0020 | Thru 3 HP Motors Only
1.8 | PGP505A0040 | 2.3 | PGP505A0050 |
2.7 | PGP505A0060 | |

Ordering Code | Porting Block/Subplate or Manifold Type | Supply/Return Port or Actuator Port Size | Other
---|---|---|---
O | Pressure and Return Port Block with Safety Relief Valve | “P” & “T” Ports SAE-10 Str. Thr’d | Convertible to S3 Option
S3 | D03 Single Station Subplate with Safety Relief Valve | “A” & “B” Ports SAE-8 Str. Thr’d | Spare “P” & “T” SAE-10 Ports
M3 ** | D03 Multistation Parallel Circuit Manifold with Safety Relief Valve | “A” & “B” Ports SAE-8 Str. Thr’d | Spare “G” Port SAE-6

**When ordering Multi-Station Manifolds, the number of stations must be specified. If more than 5 stations required, consult factory. If valves are to be mounted, specify the valves and sequence. If the model code exceeds 25 digits, utilize the special ordering code X.**

Example: D5 1.2 T1 M33X

**NOTE:**
X= 3 Station Manifold
Station #1: A
Station #2: B
Station #3: C4

Manifolds are mounted vertically. Bottom station is number 1.
### Ordering Information

#### D-Paks

<table>
<thead>
<tr>
<th>Directional Control Valve</th>
<th>Manapak Control Valves</th>
<th>Accessories</th>
<th>Design Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omit If Not Required</td>
<td>Omit If Not Required</td>
<td>P</td>
<td>Omit If Not Required</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X</td>
<td>Not Required When Ordering</td>
</tr>
</tbody>
</table>

#### Vertical Power Units

**Series D-Paks**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Function</th>
<th>Valve Model Number</th>
<th>NFPA Mounting Pad</th>
<th>Nominal Flow (GPM)</th>
<th>Circuit Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Flow Control</td>
<td>FM20DKN</td>
<td>D03</td>
<td>7</td>
<td><img src="image" alt="Flow Control" /></td>
</tr>
<tr>
<td>3</td>
<td>Pilot Operator Check</td>
<td>CP02M2DDN</td>
<td>D03</td>
<td>7</td>
<td><img src="image" alt="Pilot Operator Check" /></td>
</tr>
<tr>
<td>5</td>
<td>&quot;P&quot; Port Check</td>
<td>CM2PPN</td>
<td>D03</td>
<td>7</td>
<td><img src="image" alt="&quot;P&quot; Port Check" /></td>
</tr>
<tr>
<td>7</td>
<td>&quot;P&quot; Port Pressure Reducing</td>
<td>PRM2PP25KN (150-3000)</td>
<td>D03</td>
<td>6</td>
<td><img src="image" alt="&quot;P&quot; Port Pressure Reducing" /></td>
</tr>
</tbody>
</table>

#### Ordering Information

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Function</th>
<th>Model Number</th>
<th>Technical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1*</td>
<td>Return Heat Exchanger</td>
<td>RM-08-2-2</td>
<td>Air/Oil: 7HP Rejection @ 3 GPM (5 PSI Diff. @ 3 GPM)</td>
</tr>
<tr>
<td>C*</td>
<td>Return Heat Exchanger</td>
<td>N401A40</td>
<td>Oil/Water (1:1): 3HP Rej. @ 3 GPM (9 GPM Max.) (5 PSI Diff. @ 3 GPM)</td>
</tr>
<tr>
<td>E</td>
<td>Water Temp. Modulating</td>
<td>V47AC-6 Valve</td>
<td>75°F to 135°F Adj. Range Cross Ambient Sensing 3/4&quot; NPT Inlet</td>
</tr>
<tr>
<td>H</td>
<td>Pressure Filter</td>
<td>15P110BXR</td>
<td>Microglass Element Vis. Ind. - 50 PSI Bypass (2 PSI Diff. @ 3 GPM)</td>
</tr>
<tr>
<td>J</td>
<td>Immersion Heater</td>
<td>ET2-251-LB</td>
<td>250 Watt, 120 V, 1PH, 120°F Fixed Thermostat NEMA 4 (2.1 Amps)</td>
</tr>
<tr>
<td>K</td>
<td>Check Valve Pump Outlet</td>
<td>DT370MOMF05</td>
<td>5 PSI Cracking Pressure (7 PSI Diff. @ 3 GPM)</td>
</tr>
<tr>
<td>L</td>
<td>Bypass Check (On Heat Exch.)</td>
<td>C1020S65</td>
<td>65 PSI Cracking Pressure</td>
</tr>
<tr>
<td>M</td>
<td>Return Filter</td>
<td>15CN110B (3 PSI Diff. @ 3 GPM)</td>
<td>Microglass Element Visual 25 PSI Indicator</td>
</tr>
<tr>
<td>O</td>
<td>Return Filter</td>
<td>12AT10C (12 GPM Ind. Gage - 15 PSI Bypass Max. Oil Flow)</td>
<td>Cellulose Element Ind. Gage - 15 PSI Bypass (Max. Oil Flow)</td>
</tr>
<tr>
<td>R1</td>
<td>Combination Float Temp. SW N.O. Float Up</td>
<td>876782-01</td>
<td>Fixed Temp at 149°F Close @ Low Level And/Or 149°F (N.O.)</td>
</tr>
<tr>
<td>R2</td>
<td>Combination Float Temp. SW N.O. Float Up</td>
<td>876782-02</td>
<td>Fixed Temp at 150°F Open @ Low Level And/Or 150°F (N.C.)</td>
</tr>
<tr>
<td>W1</td>
<td>Pressure Switch 90-700 PSI</td>
<td>876731-01</td>
<td>N.O. &amp; N.C. Contacts (SPDT Switch) DIN 43650 Connector 5A @ 125/250VAC Induct 7A @ 12/25 VDC Induct</td>
</tr>
<tr>
<td>W2</td>
<td>Pressure Switch 700-3000 PSI</td>
<td>876731-02</td>
<td>N.O. &amp; N.C. Contacts (SPDT Switch) DIN 43650 Connector 5A @ 125/250VAC Induct 7A @ 12/25 VDC Induct</td>
</tr>
</tbody>
</table>

* Heat rejection based on flow given with a 40°F differential between transfer medium.

† Units less valves will be supplied with station cover plates installed.
Ordering Information
Series H-Paks

H-Paks

Reservoir
Pressure Control
Pump Flow
Manifold

Omit If Not Required
Omit If Not Required

Ordering Code
Reservoir Size (Gallons)

H1*
10
H2
20
H3
30
H4
40

* Available up to 10HP motor only.

System Pressure Relief Valve Only
System Pressure Relief Valve with Unloading Valve (2-Way 120VAC) N.O. (Energize coil to close)

Ordering Code
Pressure Control Description
Omit
System Pressure Relief Valve Only
B
System Pressure Relief Valve with Unloading Valve (2-Way 120VAC) N.O. (Energize coil to close)

Note: Two and three pressure control options with unloading valve available, consult factory.

Ordering Code
Pump Used

0.9
PGP505A0020
1.3
PGP505A0030
1.8
PGP505A0040
2.3
PGP505A0050
2.7
PGP505A0060
3.2
PGP511A0070
4.5
PGP511A0100
5.1
PGP511A0110
6.3
PGP511A0140
8.1
PGP511A0180
9.4†
PGP511A0210
12.3†
PGP511A0280

† Available with H2, H3, H4 Tanks Only.

Ordering Code
Motor Description (HP-RPM-Frame-Phase)

U1
.5 - 1725 - 56C-1
C1
.75 - 1725 - 56C - 1
T1
1 - 1725 - 56C - 1
T3
1 - 1725 - 56C - 3
F
1.5 - 1725 - 56C - 3
G
2 - 1725 - 56C - 3
K
3 - 1725 - 56C - 3
L
5 - 1725 - 184TC - 3
M
7.5 - 1725 - 213TC - 3
N
10 - 1725 - 215TC - 3
P †
15 - 1725 - 254TC - 3
S †
20 - 1725 - 256TC - 3

† Available with H2, H3, H4 Tanks Only.

Ordering Code
Porting Block/Subplate or Manifold Type

O
Pressure and Return Port Block with Safety Relief Valve
S3
D03 Single Station Subplate with Safety Relief Valve
S5
D05 Single Station Subplate with Safety Relief Valve
S6
D05H/D05HE Single Station Subplate with Safety Relief Valve
M3 *
D03 Multistation Parallel Circuit Manifold with Safety Relief Valve
M5 †
D05 Multistation Parallel Circuit Manifold with Safety Relief Valve
M6 †
D05H Multistation Parallel Circuit Manifold with Safety Relief Valve

† Available with H2, H3, H4 only.

Ordering Code
Supply/Return Port Actuator Port Size

P” & “T” Ports SAE-12 Str. Thr’d Convertible to S3, S5, S6 Option
“A” & “B” Ports SAE-10 Str. Thr’d Spare “P” & “T” SAE-10 Ports
“A” & “B” Ports SAE-10 Str. Thr’d Spare “P” & “T” SAE-12 Ports
“A” & “B” Ports SAE-10 Str. Thr’d “X” & “Y” Ports SAE-4 (H & HE)
“A” & “B” Ports SAE-8 Str. Thr’d Spare “G” Port SAE-6
“A” & “B” Ports SAE-8 Str. Thr’d Spare “G” Port SAE-6
“A” & “B” Ports SAE-12 Str. Thr’d “No “X” & “Y” Ports SAE-6

* When ordering Multi-Station Manifolds, the number of stations must be specified. If more than 5 stations required, consult factory. If valves are to be mounted, specify the valves and sequence. If the model code exceeds 25 digits, utilize the special ordering code X.

Example: H2 6.3 N M53X
X = 3 Station Manifold
Station #1: E
Station #2: F
Station #3: G4

** Single phase electric motors are rated as follows: 115/230V, 1PH, TEFC-60 Hertz 1800 RPM.
Three phase electric motors are rated as follows: 208-230/460V, 3PH, TEFC-60 Hertz 1800 RPM.
Consult factory for other motor speeds (RPM) and voltages.
** Use “W” prefix when no motor is required on unit. When ordering, “W” must be followed by motor model code equivalent to frame size of motor to be used.
† Available with H2, H3, H4 Tanks Only.

† Available with H2, H3, H4 only.

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee
**H-Paks**

Omit If Not Required

<table>
<thead>
<tr>
<th>Directional Control Valve</th>
<th>Manapak Control Valves</th>
<th>Accessories</th>
<th>Special Modifications Indicates Special Modification Has Been Specified</th>
<th>Design Series</th>
</tr>
</thead>
</table>

**Ordering Information**

Series H-Paks

**Ordering Code** | **Function** | **Valve Model Number** | **NFPA Mounting Pad** | **Nominal Flow** | **Solenoide Operator** | **Circuit Symbol** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Flow Control</td>
<td>FM2DDKN</td>
<td>D03</td>
<td>7</td>
<td>Single (Spr. Ret)</td>
<td>X</td>
</tr>
<tr>
<td>2</td>
<td>Flow Control</td>
<td>FM3DDKN</td>
<td>D05</td>
<td>12</td>
<td>Double (Spr. Ctr)</td>
<td>D</td>
</tr>
<tr>
<td>3</td>
<td>Pilot Operator Check</td>
<td>CPOM2DDN</td>
<td>D03</td>
<td>7</td>
<td>Double (Spr. Ctr)</td>
<td>D</td>
</tr>
<tr>
<td>4</td>
<td>Pilot Operator Check</td>
<td>CPOM3DDN</td>
<td>D05</td>
<td>12</td>
<td>Double (Spr. Ctr)</td>
<td>D</td>
</tr>
<tr>
<td>5</td>
<td>&quot;P&quot; Port Check</td>
<td>CM2PPN</td>
<td>D03</td>
<td>7</td>
<td>Double (Detent)</td>
<td>D</td>
</tr>
<tr>
<td>6</td>
<td>&quot;P&quot; Port Check</td>
<td>CM3PPN</td>
<td>D05</td>
<td>12</td>
<td>Double (Detent)</td>
<td>D</td>
</tr>
<tr>
<td>7</td>
<td>&quot;P&quot; Port Pressure Reducing</td>
<td>PRM2PP25KN (150-300)</td>
<td>D03</td>
<td>6</td>
<td>Double (Detent)</td>
<td>D</td>
</tr>
<tr>
<td>8</td>
<td>&quot;P&quot; Port Pressure Reducing</td>
<td>PRM3PP25KN</td>
<td>D05</td>
<td>12</td>
<td>Double (Detent)</td>
<td>D</td>
</tr>
</tbody>
</table>

**Ordering Code** | **Function** | **Model Number** | **Technical Data** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Return Heat Exchanger</td>
<td>RM-08-1-2</td>
<td>75°F to 135°F Adj. Range Cross Ambient Sensing 3/4&quot; NPT Inlet</td>
</tr>
<tr>
<td>B2</td>
<td>Return Heat Exchanger</td>
<td>RM-190-1-2</td>
<td>75°F to 135°F Adj. Range Cross Ambient Sensing 3/4&quot; NPT Inlet</td>
</tr>
<tr>
<td>C</td>
<td>Return Heat Exchanger</td>
<td>N401A40</td>
<td>Oil/Water (1:1): 7 HP Rej. @ 7 GPM (9 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>D</td>
<td>Return Heat Exchanger</td>
<td>N701B6F</td>
<td>Oil/Water (2:1): 7 HP Rej. @ 7 GPM (9 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>E</td>
<td>Water Temp. Modulating</td>
<td>V47AC-6 Valve</td>
<td>75°F to 135°F Adj. Range Cross Ambient Sensing 3/4&quot; NPT Inlet</td>
</tr>
<tr>
<td>H</td>
<td>Pressure Filter</td>
<td>15P110BXRS</td>
<td>Microglass Element Vis. Ind. - 50 PSI Bypass (4 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>J</td>
<td>Immersion Heater</td>
<td>BGS79J6-W1</td>
<td>1 KW, 120/240 V, 1PH, 30-110°F Thermostat NEMA 4 (23 W/Sq.In.)</td>
</tr>
<tr>
<td>K</td>
<td>Check Valve Pump Outlet</td>
<td>&quot;DT&quot; &amp; &quot;C&quot; Series</td>
<td>5 PSI Cracking Pressure (25 PSI Diff. @ 15 GPM)</td>
</tr>
<tr>
<td>L</td>
<td>Bypass Check (On Heat Exch.)</td>
<td>C1220S65</td>
<td>65 PSI Cracking Pressure</td>
</tr>
<tr>
<td>M</td>
<td>Return Filter</td>
<td>15CN110B</td>
<td>Microglass Element Visual 25 PSI Indicator (5 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>N</td>
<td>Return Filter</td>
<td>40CN110B</td>
<td>Microglass Element Visual 25 PSI Indicator (5 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>O</td>
<td>Return Filter</td>
<td>12AT10C</td>
<td>Cellulose Element Ind. Gage - 15 PSI Bypass Oil Flow</td>
</tr>
<tr>
<td>R1</td>
<td>Combination Float/Temp. SW N.O. Float Up</td>
<td>876782-01</td>
<td>Fixed Temp at 149°F Close @ Low Level AndOr 149°F (N.O.)</td>
</tr>
<tr>
<td>R2</td>
<td>Combination Float/Temp. SW N.O. Float Up</td>
<td>876782-02</td>
<td>Fixed Temp at 150°F Close @ Low Level AndOr 150°F (N.O.)</td>
</tr>
<tr>
<td>V</td>
<td>Return Filter</td>
<td>50AT10C</td>
<td>Cellulose Element Ind. Gage - 15 PSI Bypass Oil Flow</td>
</tr>
<tr>
<td>W1</td>
<td>Pressure Switch 90-700 PSI</td>
<td>876731-01</td>
<td>N.O. &amp; N.C. Contacts (SPOT Switch) DIN 43650 Connector 5A @ 125/250VAC Induct 7A @ 12/25VDC Induct</td>
</tr>
<tr>
<td>W2</td>
<td>Pressure Switch 700-3000 PSI</td>
<td>876731-02</td>
<td>N.O. &amp; N.C. Contacts (SPOT Switch) DIN 43650 Connector 5A @ 125/250VAC Induct 7A @ 12/25VDC Induct</td>
</tr>
<tr>
<td>Z</td>
<td>Temperature Switch</td>
<td>837-4AA NEMA 1</td>
<td>60°F-190°F Adjust. Differential N.O. &amp; N.C. Contacts</td>
</tr>
</tbody>
</table>

† Units less valves will be supplied with station cover plates installed.

* Heat rejection based on flow given with a 40°F differential between transfer medium.

---

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee
V-Paks – 2 thru 7 GPM

**Omit If Not Required**

- Reservoir
- Remote Compensator Options
- Pump Control
- Pump Flow
- Reduced Flow
- No Motor (See Note)
- Electric Motor
- Manifold

### Ordering Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1*</td>
<td>Single Pressure Remote Compensator</td>
<td>10</td>
</tr>
<tr>
<td>V2</td>
<td>Single Pressure Remote Compensator With Low Pressure Standby</td>
<td>20</td>
</tr>
<tr>
<td>V3</td>
<td>Bi-Pressure Remote Compensator With Low Pressure Standby</td>
<td>30</td>
</tr>
<tr>
<td>V4</td>
<td>Electrohydraulic Pressure Control</td>
<td>40</td>
</tr>
</tbody>
</table>

* Available up to 10HP motor.

**Omit If Not Required**

- 7

**Ordering Flow**

- **7 OR Reduced Flow**
- W

**Ordering Information**

---

**Vertical Power Units**

Series V-Paks

### Ordering Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate</th>
<th>Pump Used and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>2 - 1725 - 56TC</td>
<td>7.8</td>
<td>PVP16 - Std. Remote Compensator</td>
</tr>
<tr>
<td>K</td>
<td>3 - 1725 - 56TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>5 - 1725 - 184TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>7.5 - 1725 - 213TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>10 - 1725 - 215TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>15 - 1725 - 254TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>20 - 1725 - 256TC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ordering Code**

<table>
<thead>
<tr>
<th>Code</th>
<th>Motor Description (HP-RPM-Frame)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>2 - 1725 - 56TC</td>
</tr>
<tr>
<td>K</td>
<td>3 - 1725 - 56TC</td>
</tr>
<tr>
<td>L</td>
<td>5 - 1725 - 184TC</td>
</tr>
<tr>
<td>M</td>
<td>7.5 - 1725 - 213TC</td>
</tr>
<tr>
<td>N</td>
<td>10 - 1725 - 215TC</td>
</tr>
<tr>
<td>P</td>
<td>15 - 1725 - 254TC</td>
</tr>
<tr>
<td>S</td>
<td>20 - 1725 - 256TC</td>
</tr>
</tbody>
</table>

**Ordering Code**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Supply/Return Port Actuator Port Size</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Pressure and Return Port Block with Safety Relief Valve</td>
<td>&quot;P&quot; &amp; &quot;T&quot; Port SAE-12 Str. Thr'd</td>
<td>Convertible to S3, S5, S6 Option</td>
</tr>
<tr>
<td>S3</td>
<td>D03 Single Station Subplate with Safety Relief Valve</td>
<td>&quot;A&quot; &amp; &quot;B&quot; Ports SAE-8 Str. Thr'd</td>
<td>Spare &quot;P&quot; &amp; &quot;T&quot; SAE-10 Ports</td>
</tr>
<tr>
<td>S5</td>
<td>D05 Single Station Subplate with Safety Relief Valve</td>
<td>&quot;A&quot; &amp; &quot;B&quot; Ports SAE-10 Str. Thr'd</td>
<td>Spare &quot;P&quot; &amp; &quot;T&quot; SAE-12 Ports</td>
</tr>
<tr>
<td>S6</td>
<td>D05H/D05HE Single Station Subplate with Safety Relief Valve</td>
<td>&quot;A&quot; &amp; &quot;B&quot; Ports SAE-10 Str. Thr'd</td>
<td>&quot;X&quot; &amp; &quot;Y&quot; Ports SAE-4 (H &amp; HE)</td>
</tr>
<tr>
<td>M3</td>
<td>D03 Multistation Parallel Circuit Manifold with Safety Relief Valve</td>
<td>&quot;A&quot; &amp; &quot;B&quot; Ports SAE-8 Str. Thr'd</td>
<td>Spare &quot;G&quot; Port SAE-6</td>
</tr>
<tr>
<td>M5</td>
<td>D05 Multistation Parallel Circuit Manifold with Safety Relief Valve</td>
<td>&quot;A&quot; &amp; &quot;B&quot; Ports SAE-8 Str. Thr'd</td>
<td>Spare &quot;G&quot; Port SAE-6</td>
</tr>
<tr>
<td>M6</td>
<td>D05H Multistation Parallel Circuit Manifold with Safety Relief Valve</td>
<td>&quot;A&quot; &amp; &quot;B&quot; Ports SAE-12 Str. Thr'd</td>
<td>Spare &quot;G&quot; SAE-6 No &quot;X&quot; &amp; &quot;Y&quot; Ports</td>
</tr>
</tbody>
</table>

* When ordering Multi-Station Manifolds, the number of stations must be specified. If more than 5 stations required, consult factory. If valves are to be mounted, specify the valves and sequence. If the model code exceeds 25 digits, utilize the special ordering code X.

Example: V2 7 N M33X

NOTES:
- X= 3 Station Manifold
- Station #1: A
- Station #2: B
- Station #3: C24

† Available with V2, V3, V4 only.

---

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greenville, Tennessee
### V-Paks – 2 thru 7 GPM

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Function</th>
<th>Valve Model Number</th>
<th>NFPA Mounting Pad</th>
<th>Nominal Flow (GPM)</th>
<th>Solenoid Operator</th>
<th>Circuit Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Flow Control</td>
<td>FM2DDKN</td>
<td>D03</td>
<td>7</td>
<td>Single (Spr. Ret)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Flow Control</td>
<td>FM3DDKN</td>
<td>D05</td>
<td>12</td>
<td>Double (Spr. Ctr)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Pilot Operator Check</td>
<td>CPOM2DDN</td>
<td>D03</td>
<td>7</td>
<td>Single (Spr. Ret)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Pilot Operator Check</td>
<td>CPOM3DDN</td>
<td>D05</td>
<td>12</td>
<td>Double (Spr. Ctr)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>&quot;P&quot; Port Check</td>
<td>OM2PPN</td>
<td>D03</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>&quot;P&quot; Port Check</td>
<td>OM3PPN</td>
<td>D05</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>&quot;P&quot; Port Pressure Reducing</td>
<td>PRM2PP-25KN</td>
<td>D03</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>&quot;P&quot; Port Pressure Reducing</td>
<td>PRM3PP-25KN</td>
<td>D05</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9*</td>
<td>Shuttle Check (Load Sense)</td>
<td>–</td>
<td>D03</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0*</td>
<td>Shuttle Check (Load Sense)</td>
<td>–</td>
<td>D05</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Use in combination with load sense pump type (7A) and flow control valve option (1 or 3).

† Units less valves will be supplied with station cover plates installed.

---

### Ordering Information

#### Series V-Paks

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Function</th>
<th>Model Number</th>
<th>Technical Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Pump Case Heat Exchanger</td>
<td>RM-08-4-2</td>
<td>Air/Oil: 7HP Rejection @ 5 GPM (2-15HP Motors)</td>
</tr>
<tr>
<td>B</td>
<td>Return Heat Exchanger</td>
<td>RM-08-1-2</td>
<td>Air/Oil: 7HP Rejection @ 7 GPM (2-15HP Motors Only)</td>
</tr>
<tr>
<td>B2</td>
<td>Return Heat Exchanger</td>
<td>RM-190-1-2</td>
<td>Air/Oil: 1.5HP Rejection @ 7 GPM (7.5-15HP Motors Only)</td>
</tr>
<tr>
<td>C</td>
<td>Return Heat Exchanger</td>
<td>N401A40</td>
<td>Oil/Water (1:1): 5HP Oil/Water Rejection (2-15HP Motors)</td>
</tr>
<tr>
<td>D</td>
<td>Return Heat Exchanger</td>
<td>N701B6F</td>
<td>Oil/Water (2:1): 4HP Oil/Water Rejection (2-5HP Motors Only)</td>
</tr>
<tr>
<td>E</td>
<td>Water Temp. Modulating</td>
<td>V47AC-6 Valve</td>
<td>75°F to 135°F Adjust. Range Cross Ambient Sensing 3/4&quot; NPT Inlet</td>
</tr>
<tr>
<td>H</td>
<td>Pressure Filter</td>
<td>15P10BXRS</td>
<td>Microglass Element Vis. Ind. - 50 PSI Bypass (4 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>J</td>
<td>Immersion Heater</td>
<td>BGS796-J6-W1</td>
<td>1 KW, 120-240 V, 1PH, 30-110°F Thermostat NEMA 4 (23 W/Sq.In.)</td>
</tr>
<tr>
<td>K</td>
<td>Check Valve</td>
<td>DT750OMF05</td>
<td>5 PSI Cracking Pressure (8 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>L</td>
<td>Bypass Check</td>
<td>C1220565</td>
<td>65 PSI Cracking Pressure</td>
</tr>
<tr>
<td>M</td>
<td>Return Filter</td>
<td>15CN110B</td>
<td>Microglass Element Visual 25 PSI Indicator (5 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>N</td>
<td>Return Filter</td>
<td>40CN110B</td>
<td>Microglass Element Visual 25 PSI Indicator (3 PSI Diff. @ 7 GPM)</td>
</tr>
<tr>
<td>O</td>
<td>Return Filter</td>
<td>12AT10C</td>
<td>Cellulose Element Ind. Gage - 15 PSI Bypass Oil Flow</td>
</tr>
<tr>
<td>R1</td>
<td>Combination Float/Temp. SW N.O. Float Up</td>
<td>876782-01</td>
<td>Fixed Temp at 149°F Close @ Low Level And/or 149°F (N.O.)</td>
</tr>
<tr>
<td>R2</td>
<td>Combination Float/Temp. SW N.O. Float Up</td>
<td>876782-02</td>
<td>Fixed Temp at 150°F Open @ Low Level And/or 150°F (N.C.)</td>
</tr>
<tr>
<td>V</td>
<td>Return Filter</td>
<td>50AT10C</td>
<td>Cellulose Element Ind. Gage - 15 PSI Bypass Oil Flow</td>
</tr>
<tr>
<td>W1</td>
<td>Pressure Switch</td>
<td>876731-01</td>
<td>N.O. &amp; N.C. Contacts (SPDT Switch) DIN 43650 Connector 5A @ 125/250VAC Induct 7A @ 12/25VDC Induct</td>
</tr>
<tr>
<td>W2</td>
<td>Pressure Switch</td>
<td>876731-02</td>
<td>N.O. &amp; N.C. Contacts (SPDT Switch) DIN 43650 Connector 5A @ 125/250VAC Induct 7A @ 12/25VDC Induct</td>
</tr>
<tr>
<td>Z</td>
<td>Temperature Switch</td>
<td>837-44A</td>
<td>NEMA 1 60°F-190°F Adjust. Differential N.O. &amp; N.C. Contacts</td>
</tr>
</tbody>
</table>

* Heat rejection based on flow given with a 40°F differential between transfer medium.
Vertical Power Units
Series V-Paks

V-Paks – 8 thru 15 GPM

Ordering Information

Reservoir
Remote Compensator
Options
Pump Control
Pump Flow

Ordering Code Reservoir Size (Gallons)
V2 20
V3 30
V4 40

Ordering Code Pump Control Option
Omit
Std. Remote Compensator
A* Load Sense (Flow Control)
H** Horsepower Limiting

NOTE: For shaded options A & H, lead time is four weeks.
* Unless otherwise specified, a SAE-6 sense port line will be supplied in topplate.
When shuttle check option (9 or 0) is specified on D03 or D05 manifold, sense line will be plumbed to shuttle check.
** Unless otherwise specified, horsepower setting will be at max. flow & pressure obtainable with motor selected. Reference Pump HP curves on page B18.

Ordering Code Motor Description (HP-RPM-Frame)
L 5 - 1725 - 184TC
M 7.5 - 1725 - 213TC
N 10 - 1725 - 215TC
P 15 - 1725 - 254TC
S 20 - 1725 - 256TC

Electric motors are 208-230/460V, 60Hz, 3PH 1800 RPM. TEFC consult factory for other motor speeds (RPM) and voltages.
** Use “W” prefix when no motor is required on unit. When ordering, “W” must be followed by motor model code equivalent to frame size of motor to be used.

Ordering Code Pump Flow Rate @ 1800 RPM
15 15.6 PVP33 - Std. Remote Compensator
* Specify in GPM Destroked Max. Volume (8 GPM Min.)

* Unless otherwise specified, units are shipped at max. flow rate (15.6 GPM) at 1800 RPM. When reduced flow setting is required, specify pump setting in .5 GPM increments. Example: 11, 11.5, 12, 12.5 with a 8 GPM minimum flow.
If horsepower limiting pump (H) control is required to be destroked, utilize the special ordering code X.
Example: V*12** = Std. Pump Destroked to 12 GPM
V*A11.5** = Load Sense Pump Destroked to 11.5 GPM

Ordering Code Porting Block/Subplate or Manifold Type Supply/Return Port or Actuator Port Size Other
O Pressure and Return Port Block with Safety Relief Valve “P” & “T” Ports SAE-12 Str. Thr’d Convertible to S3, S5, S6 Option
S3 D03 Single Station Subplate with Safety Relief Valve “A” & “B” Ports SAE-8 Str. Thr’d Spare “P” & “T” SAE-10 Ports
S5 D05 Single Station Subplate with Safety Relief Valve “A” & “B” Ports SAE-10 Str. Thr’d Spare “P” & “T” SAE-12 Ports
S6 D05H/D05HE Single Station Subplate with Safety Relief Valve “A” & “B” Ports SAE-10 Str. Thr’d ”X” & “Y” Ports SAE-4 (H & HE)
M3 * D03 Multistation Parallel Circuit Manifold with Safety Relief Valve “A” & “B” Ports SAE-8 Str. Thr’d Spare “G” Port SAE-6
M5 * D05 Multistation Parallel Circuit Manifold with Safety Relief Valve “A” & “B” Ports SAE-8 Str. Thr’d Spare “G” Port SAE-6
M6 * D05H Multistation Parallel Circuit Manifold with Safety Relief Valve “A” & “B” Ports SAE-12 Str. Thr’d No “X” & “Y” Ports

* When ordering Multi-Station Manifolds, the number of stations must be specified. If more than 5 stations required, consult factory. If valves are to be mounted, specify the valves and sequence. If the model code exceeds 25 digits, utilize the special ordering code X.
Example: V3 11 N M3X NOTE:
X= 3 Station Manifold
Station #1: E
Station #2: F
Station #3: G4

Manifolds are mounted vertically.
Bottom station is number 1.
### V-Paks – 8 thru 15 GPM

**Ordering Information**

**Series V-Paks**

**Directional Control Valve**

**Manapak Control Valves**

**Accessories**

**Special Modifications Indicates Special Modification Has Been Specified**

**Design Series**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Function</th>
<th>Valve Model Number</th>
<th>NFPA Mounting Pad</th>
<th>Nominal Flow (GPM)</th>
<th>Circuit Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Flow Control</td>
<td>RM2DKN</td>
<td>D03</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Flow Control</td>
<td>RM3DKN</td>
<td>D05</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Pilot Operator Check</td>
<td>CPOM2DDN</td>
<td>D03</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Pilot Operator Check</td>
<td>CPOM3DDN</td>
<td>D05</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>“P” Port Check</td>
<td>CM2PPN</td>
<td>D03</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>“P” Port Check</td>
<td>CM3PPN</td>
<td>D05</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>“P” Port Pressure Reducing</td>
<td>RPM2PPS25KN</td>
<td>(150-3500)</td>
<td>D03</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>“P” Port Pressure Reducing</td>
<td>RPM3PP-25KN</td>
<td>D05</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Function</th>
<th>Valve Model Number</th>
<th>NFPA Mounting Pad</th>
<th>Nominal Flow (GPM)</th>
<th>Circuit Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Shuttle Check (Load Sense)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Shuttle Check (Load Sense)</td>
<td>–</td>
<td>D05</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

- Use in combination with load sense pump type (A15) and flow control valve option (1 or 3).

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Valve Model Number</th>
<th>NFPA Mounting Pad</th>
<th>Nominal Flow (GPM)</th>
<th>Solenoid Operator -110 VAC</th>
<th>Circuit Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>D1VW20BNYCF</td>
<td>D03</td>
<td>7</td>
<td>Single (Spr. Ret.)</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>D1W1CNYCF</td>
<td>D03</td>
<td>7</td>
<td>Double (Spr. Ctrl.)</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>D1W4CNYCF</td>
<td>D03</td>
<td>7</td>
<td>Double (Spr. Ctrl.)</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>D1W2DNYCF</td>
<td>D03</td>
<td>7</td>
<td>Double (Detent)</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>D9W1BNYCF</td>
<td>D05</td>
<td>12</td>
<td>Single (Spr. Ret.)</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>D9W1CNYCF</td>
<td>D05</td>
<td>12</td>
<td>Double (Spr. Ctrl.)</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>D9W4CNYCF</td>
<td>D05</td>
<td>12</td>
<td>Double (Spr. Ctrl.)</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>D9W1DNYCF</td>
<td>D05</td>
<td>12</td>
<td>Double (Detent)</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>D3W1B4NYCF</td>
<td>D05H</td>
<td>20</td>
<td>Single (Spr. Ret.)</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>D3W1C4NYCF</td>
<td>D05H</td>
<td>20</td>
<td>Double (Spr. Ctrl.)</td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>D3V4C4NYCF</td>
<td>D05H</td>
<td>20</td>
<td>Double (Spr. Ctrl.)</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>D3V2D4NYCF</td>
<td>D05H</td>
<td>20</td>
<td>Double (Detent)</td>
<td></td>
</tr>
</tbody>
</table>

† Units less valves will be supplied with station cover plates installed.

* Heat rejection based on flow given with a 40°F differential between transfer medium.

---

**Technical Data**

- **A** Pump Case Heat Exchanger
  - RM-08-4-2
  - Air/Oil: .7HP
  - Rejection @ .5 GPM (2-20HP Motors)

- **B1** Return Heat Exchanger
  - RM-08-1-2
  - Air/Oil: .7HP
  - Rejection @ 15 GPM (2-5HP Motors Only)

- **B2** Return Heat Exchanger
  - RM-190-1-2
  - Air/Oil: 1.7HP
  - Rejection @ 15 GPM (7.5-20HP Motors Only)

- **D** Return Heat Exchanger
  - N018BF
  - Oil/Water: (2:1) 8.5HP
  - Rejection (2-5HP Motors)

- **E** Water Temp. Modulating Valve
  - V47AC-6
  - 75°F to 135°F Adj. Range

- **H** Pressure Filter
  - 15P10BXR
  - Microglass Element
  - Vis. Ind. - 50 PSI Bypass

- **J** Immersion Heaters
  - BGS79J6-W1
  - 1 KW, 120/240 V
  - 30-110°F Thermostat

- **K** Check Valve
  - DT750MOMF05
  - 5 PSI Cracking Pressure

- **L** Bypass Check Valve
  - DT750MOMF05
  - 65 PSI Cracking Pressure

- **M** Return Filter
  - 15CN110B
  - Microglass Element
  - Visual 25 PSI Indicator

- **N** Return Filter
  - 40CN110B
  - Microglass Element
  - Visual 25 PSI Indicator

- **O** Return Filter
  - 12AT10C
  - Cellulose Element

- **R1** Combination Float/Temp. SW
  - N.O. Float Up
  - 876782-01
  - Fixed Temp at 149°F

- **R2** Combination Float/Temp. SW
  - N.C. Float Up
  - 876782-02
  - Fixed Temp at 150°F

- **V** Return Filter
  - 50AT10C
  - Cellulose Element

- **W1** Pressure Switch
  - 90-700 PSI
  - 876731-01
  - N.O. & N.C. Contacts

- **W2** Pressure Switch
  - 700-3000 PSI
  - 876731-02
  - N.O. & N.C. Contacts

- **Z** Temperature Switch
  - 35 GPM Ind. Gage
  - 837-A4A
  - 60°F-190°F

---

**Catalog HY13-1552-001/NA,EU**

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee
Jog the electric motor once and verify that the electric motor is rotating in the same direction as the arrow on the electric motor housing. If direction is incorrect, reverse two of the three leads on a 3-phase electric motor.

D & H-Pak power units are tested and relief valve is set at maximum pressure of the pump/motor combination.

V-Pak power units are tested and pressure control valves are factory preset. If adjustments are needed, follow the procedure below: Begin adjusting relief valve and pump compensator control valve to increase pressure gradually. (NOTE: Always set relief valve 250 PSI higher than pump compensator pressure control valve or severe overheating will occur.)

If pump fails to prime, vent pump discharge to atmosphere to establish fluid flow.

Reservoir temperature should not exceed 150°F. System reliability and component service life will be reduced when system is operated at higher temperature.

Clean fluid = improved system reliability and longer component service life, change filter elements whenever filter indicators indicate a dirty element condition.

It is recommended that every 4,000 operating hours or once a year, whichever occurs first, the filler/breather cap and suction strainer should be replaced.

Fluid Recommendations
Premium quality hydraulic oil with a viscosity range between 150-250 SSU (30-50 cst.) at 100°F (38°C). Normal operating viscosity range between 80-1000 SSU (17-180 cst.). Maximum start-up viscosity is 4000 SSU (1000 cst.).

NOTE: Consult Parker when exceeding 160°F (71°C) operation. Oil should have maximum anti-wear properties, rust and oxidation treatment.

Filtration
For maximum pump and system component life, the system should be protected from contamination at a level not to exceed 125 particles greater than 10 microns per milliliter of fluid. (SAE Class 4 / ISO 16/13.) Due to the nature of variable displacement pumps, variations in pump inlet conditions, fluid acceleration losses, system aeration, and duty cycle must be carefully considered before specifying suction line filtration. Contact your Parker representative for assistance.

NOTE: For additional information refer to Bulletin No. IG-2600-550-001M1.
The totally enclosed pump mounting bracket offers precision shaft alignment and safety from the rotating shafts and coupling. The bracket is designed to mount on the motor face with the motor coupling half secure to the shaft. Then the pump, with its coupling half secure on the pump shaft, is mounted and the coupling halves are engaged. This will require proper spacing of the coupling prior to installation and a coupling with an outside diameter less than “P” dimension. If the coupling selected cannot be assembled this way, both coupling halves must be installed on the motor shaft. Next, mount the adapter on the motor. Then the pump can be mounted and the coupling secured to the pump by using the access slot to tighten the pump shaft coupling set screw.

**Dimensions**
Pump Mounting Adapter

* *All dimensions are in inches.*

**NOTE:** It is the responsibility of the user to check the listed dimensions to ensure suitability of mounting adapter with pump/coupling/motor combination.

---

### Vertical Power Units

**Pump Mounting Adapters**

---

**Dimensions**
Pump Mounting Adapter

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Motor Mounting</th>
<th>Motor Mounting</th>
<th>A</th>
<th>B</th>
<th>C1</th>
<th>C2</th>
<th>D</th>
<th>Face to Face</th>
<th>G</th>
<th>H</th>
<th>M</th>
<th>P</th>
<th>Vertical Mounting</th>
<th>Horizontal Mounting</th>
<th>Style</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>876631</td>
<td>SAE AA</td>
<td>56C</td>
<td>6.7</td>
<td>5.0</td>
<td>5.88</td>
<td>N/A</td>
<td>4.50</td>
<td>3.50</td>
<td>1.63</td>
<td>1.63</td>
<td>0.44</td>
<td>2.00</td>
<td>YES</td>
<td>YES</td>
<td>1</td>
<td>3 lb.</td>
</tr>
<tr>
<td>876632</td>
<td>SAE AA</td>
<td>182TC/256TC</td>
<td>9.0</td>
<td>5.3</td>
<td>7.25</td>
<td>N/A</td>
<td>8.50</td>
<td>5.00</td>
<td>1.63</td>
<td>3/8-16</td>
<td>2.00</td>
<td>0.56</td>
<td>YES</td>
<td>YES</td>
<td>1</td>
<td>4 lb.</td>
</tr>
<tr>
<td>876633</td>
<td>SAE A</td>
<td>56C</td>
<td>6.7</td>
<td>5.0</td>
<td>5.88</td>
<td>N/A</td>
<td>4.50</td>
<td>4.25</td>
<td>2.10</td>
<td>3/8-16</td>
<td>0.44</td>
<td>3.25</td>
<td>YES</td>
<td>YES</td>
<td>1</td>
<td>4 lb.</td>
</tr>
<tr>
<td>876634</td>
<td>SAE A</td>
<td>182TC/256TC</td>
<td>9.0</td>
<td>5.3</td>
<td>7.25</td>
<td>N/A</td>
<td>8.50</td>
<td>5.00</td>
<td>2.10</td>
<td>3/8-16</td>
<td>0.56</td>
<td>3.25</td>
<td>YES</td>
<td>YES</td>
<td>1</td>
<td>4 lb.</td>
</tr>
<tr>
<td>876635</td>
<td>SAE A</td>
<td>182TC/256TC</td>
<td>9.0</td>
<td>5.3</td>
<td>7.25</td>
<td>N/A</td>
<td>8.50</td>
<td>5.88</td>
<td>2.10</td>
<td>3/8-16</td>
<td>0.56</td>
<td>3.25</td>
<td>YES</td>
<td>YES</td>
<td>1</td>
<td>5 lb.</td>
</tr>
<tr>
<td>875343</td>
<td>SAE B</td>
<td>182TC/256TC</td>
<td>11.4</td>
<td>9.0</td>
<td>7.25</td>
<td>10.25</td>
<td>8.50</td>
<td>5.75</td>
<td>2.88</td>
<td>1/2-13</td>
<td>0.53</td>
<td>4.00</td>
<td>YES</td>
<td>NO</td>
<td>2</td>
<td>7 lb.</td>
</tr>
<tr>
<td>875344</td>
<td>SAE B</td>
<td>182TC/256TC</td>
<td>11.4</td>
<td>9.0</td>
<td>7.25</td>
<td>10.25</td>
<td>8.50</td>
<td>6.81</td>
<td>2.88</td>
<td>1/2-13</td>
<td>0.53</td>
<td>4.00</td>
<td>YES</td>
<td>NO</td>
<td>2</td>
<td>8 lb.</td>
</tr>
<tr>
<td>876683</td>
<td>SAE B</td>
<td>182TC/256TC</td>
<td>9.0</td>
<td>8.8</td>
<td>7.25</td>
<td>N/A</td>
<td>8.50</td>
<td>6.38</td>
<td>2.88</td>
<td>1/2-13</td>
<td>0.53</td>
<td>4.00</td>
<td>YES</td>
<td>NO</td>
<td>1</td>
<td>7 lb.</td>
</tr>
<tr>
<td>876684</td>
<td>SAE C</td>
<td>182TC/256TC</td>
<td>9.0</td>
<td>9.3</td>
<td>7.25</td>
<td>N/A</td>
<td>8.50</td>
<td>6.69</td>
<td>3.56</td>
<td>5/8-11</td>
<td>0.53</td>
<td>5.00</td>
<td>NO</td>
<td>YES</td>
<td>1</td>
<td>20 lb.</td>
</tr>
</tbody>
</table>

* All dimensions are in inches.

**NOTE:** It is the responsibility of the user to check the listed dimensions to ensure suitability of mounting adapter with pump/coupling/motor combination.
**Application Formulas**

- 1 GPM at 1500 PSI = 1 HP (General Rule)
- 1 Gallon = 231 Cubic Inches (3.7854 Liters)
- 1 Gallon Oil = 7.08 Lbs.
- 1 bar = 14.5 PSI
- 25.4mm = 1 Inch

- 1 HP = 42.4 BTU/Min.
- 1 Gallon = 3.7854 Liters

\[
\text{HP} = \frac{\text{GPM} \times \text{PSI}}{1714 \times \text{Pump Efficiency}}
\]

\[
\text{PSI} = \frac{1714 \times \text{Pump Efficiency} \times \text{HP}}{\text{GPM}}
\]

\[
\text{GPM} = \frac{1714 \times \text{Pump Efficiency} \times \text{HP}}{\text{PSI}}
\]

\[
\text{HP} = \frac{\text{Torque (in.-lbs.)} \times \text{RPM}}{63025}
\]

\[
\text{Torque} = \frac{\text{HP} \times 63025}{\text{RPM}}
\]

\[
\text{RPM} = \frac{\text{HP} \times 63025}{\text{Torque}}
\]

**Motor Information**

At 440V — 3-Phase Motor Draws 1.25 AMP/HP
At 220V — 3-Phase Motor Draws 2.5 AMP/HP
At 110V — Single Phase Motor Draws 10 AMP/HP