Mobile Hydraulic Pumps
T6CCM, T6CCP, T6CCMW
Denison Vane Technology, fixed displacement

We are doing our parts to keep you moving!
DTA your 1 Stop Shop for Hydraulics, Pneumatics and Power Transmissions.
DECLARATION OF CONFORMITY

DTA Hydraulics is a tradename of Damen Technical Agencies BV, supplying hydraulic parts to various industries since 1990. As a Certified Distributor Hydraulics by Parker Hannifin and Authorized Denison Vane Pump Assembler, we guarantee the use of original parts and components. As such we provide you with vane pumps of the same level of quality and warranty conditions as the factory does.

We highly recommend to use genuine Denison Hydraulics spare parts only in order to ensure smooth operation and longer service life. Spare parts that we have on stock include pump cartridge kits, shaft and bearing assemblies, seal kits and non-wearing parts of both the T6 and T7 series vane pumps.

ALL VANE PUMPS SUPPLIED OR REPAIRED BY DTA HYDRAULICS HAVE BEEN ASSEMBLED ACCORDING TO THE LATEST FACTORY SPECIFICATIONS WITH BRAND NEW AND GENUINE DENISON HYDRAULICS PARTS

We are able to provide you a large variety of options of the original Parker Denison single, double, and triple vane pumps. We can build any customized vane pump from our stock of genuine parts. You can now easily configure that vane pump yourself with the Denison Hydraulics Vane Pump Configurator.

vanepump.eu/vanepumps

Use advanced search to filter results based on configurable options and select any of the 25,000 vane pumps that are listed in our online catalogue. Most of the models are available from stock and ready for shipment to any place in the world instantly. We can supply Any part, Anytime, Anywhere!
Hydraulic Pumps, Fixed
Series T6CC*, Denison Vane Pumps

Model No.

| Series M = Mobile 1 shaft seal |
| Series P = Mobile 2 shaft seals |

Use for severe duty shaft only

Cam ring for “P1” & “P2”:
(Delivery at 0 bar & 1500 r.p.m.)

<table>
<thead>
<tr>
<th>Code</th>
<th>P1 = 1”</th>
<th>S = 3”</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>3/4”</td>
<td>1”</td>
</tr>
<tr>
<td>01</td>
<td>1”</td>
<td>3/4”</td>
</tr>
<tr>
<td>02</td>
<td>1”</td>
<td>2.1/2”</td>
</tr>
<tr>
<td>03</td>
<td>1”</td>
<td>2.1/2”</td>
</tr>
</tbody>
</table>

Modification
Mounting W/connection variables

Seal Class
1 = S1 (for mineral oil)
4 = S4 (for the resistant fluids)
5 = S5 (for mineral oil and fire resistant fluids)

Design letter
Porting combination (see page 34)

Direct. of rotation (view on shaft end)

INTERNAL LEAKAGE (TYPICAL)

Do not operate the pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

POWER LOSS HYDROMECHANICAL (TYPICAL)

Total hydrodynamic power loss is the sum of each section at its operating conditions.

PERMISSIBLE RADIAL LOAD

Maximum permissible axial load Fa = 800 N
Catalogue HY29-0002/UK

Hydraulic Pumps, Fixed
Series T6CC*, Denison Vane Pumps

Dimensions and Characteristics

**Shaft Code 1**
- SAE B Splined shaft
- Class 1 - J498b
- 16/32 d.p. - 13 teeth
- 30° pressure angle
- flat root side fit

**Shaft Code 3**
- SAE B Splined shaft
- Class 1 - J498b
- 16/32 d.p. - 15 teeth
- 30° pressure angle
- flat root side fit

**Shaft Code 5**
- SAE B Splined shaft
- Class 1 - J498b
- 16/32 d.p. - 13 teeth
- 30° pressure angle
- flat root side fit

**Shaft Code 2**
- Keyed no SAE

**Shaft Code 1**
- SAE B-B Splined shaft
- Class 1 - J498b
- 16/32 d.p. - 15 teeth
- 30° pressure angle
- flat root side fit

**Shaft Code 5**
- SAE B Splined shaft
- Class 1 - J498b
- 16/32 d.p. - 13 teeth
- 30° pressure angle
- flat root side fit

**Shaft Code 2**
- Keyed SAE B-B

**Shaft Code 1**
- (Keyed no SAE)

**Shaft Code 3**
- (Keyed SAE B-B)

**Shaft Code 5**
- (Keyed no SAE)

**T6CCMW**
- Shaft Code 2
- SAE B-B Splined shaft
- Class 1 - J498b
- 16/32 d.p. - 13 teeth
- 30° pressure angle
- flat root side fit

**T6CCM**
- Shaft Code 1
- SAE B Splined shaft
- Class 1 - J498b
- 16/32 d.p. - 15 teeth
- 30° pressure angle
- flat root side fit

**Operating Characteristics - Typical [24 cSt]**

<table>
<thead>
<tr>
<th>Pressure port</th>
<th>Series</th>
<th>Volumetric Displacement Vi</th>
<th>Flow Q [l/min] &amp; n = 1500 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>p = 0 bar</td>
</tr>
<tr>
<td>B03</td>
<td>10.8 ml/rev</td>
<td>16.2</td>
<td>10.7</td>
</tr>
<tr>
<td>B05</td>
<td>17.2 ml/rev</td>
<td>25.8</td>
<td>20.3</td>
</tr>
<tr>
<td>B06</td>
<td>21.3 ml/rev</td>
<td>31.9</td>
<td>26.5</td>
</tr>
<tr>
<td>B08</td>
<td>26.4 ml/rev</td>
<td>39.6</td>
<td>34.1</td>
</tr>
<tr>
<td>B10</td>
<td>34.1 ml/rev</td>
<td>51.1</td>
<td>45.7</td>
</tr>
<tr>
<td>B12</td>
<td>37.1 ml/rev</td>
<td>55.6</td>
<td>50.2</td>
</tr>
<tr>
<td>B14</td>
<td>46.6 ml/rev</td>
<td>69.0</td>
<td>63.5</td>
</tr>
<tr>
<td>B17</td>
<td>58.3 ml/rev</td>
<td>87.4</td>
<td>82.0</td>
</tr>
<tr>
<td>B20</td>
<td>63.8 ml/rev</td>
<td>95.7</td>
<td>90.2</td>
</tr>
<tr>
<td>B22</td>
<td>70.3 ml/rev</td>
<td>105.4</td>
<td>100.0</td>
</tr>
<tr>
<td>B25</td>
<td>79.3 ml/rev</td>
<td>118.9</td>
<td>113.5</td>
</tr>
<tr>
<td>B26</td>
<td>88.8 ml/rev</td>
<td>133.2</td>
<td>127.7</td>
</tr>
<tr>
<td>B31</td>
<td>100.0 ml/rev</td>
<td>15.0</td>
<td>144.5</td>
</tr>
</tbody>
</table>

**Shaft Torque Limits [ml/rev x bar]**

<table>
<thead>
<tr>
<th>Pump</th>
<th>Shaft Vi x p max. P1 + P2</th>
</tr>
</thead>
<tbody>
<tr>
<td>T6CCM</td>
<td>1</td>
</tr>
<tr>
<td>T6CCMW</td>
<td>2</td>
</tr>
<tr>
<td>T6CCM</td>
<td>3</td>
</tr>
<tr>
<td>T6CCM</td>
<td>5</td>
</tr>
</tbody>
</table>

**Additional special shafts:** see page 33
**Additional T6CCMW shaft code T:** see page 33
**Additional T6CCP version shaft see page 33**

**Port Code A B C D E**

<table>
<thead>
<tr>
<th>Port</th>
<th>Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>3&quot;</td>
<td>106.4</td>
<td>61.9</td>
<td>76.2</td>
<td>5/8&quot;-11 x 28.4 deep</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>2&quot;1/2</td>
<td>88.9</td>
<td>50.8</td>
<td>63.5</td>
<td>1/2&quot;-13 x 23.9 deep</td>
<td></td>
</tr>
<tr>
<td>P1</td>
<td>1&quot;</td>
<td>52.4</td>
<td>26.2</td>
<td>25.4</td>
<td>76.2</td>
<td></td>
</tr>
<tr>
<td>P2</td>
<td>3/4&quot;</td>
<td>47.7</td>
<td>22.2</td>
<td>19.0</td>
<td>76.2</td>
<td></td>
</tr>
<tr>
<td>P2</td>
<td>1&quot;</td>
<td>52.4</td>
<td>26.2</td>
<td>25.4</td>
<td>74.7</td>
<td></td>
</tr>
</tbody>
</table>

**Pressure ø C Suction ø C Pressure ø 25.4**

<table>
<thead>
<tr>
<th>SUCTION ø C</th>
<th>PRESSURE ø C</th>
</tr>
</thead>
<tbody>
<tr>
<td>24,53 MAX</td>
<td>28,22 MAX</td>
</tr>
</tbody>
</table>

**Key**

M8 X 16 DEEP - 4 HOLES3/8"-16UNC x 19 DEEP - 4 HOLESE - 4 HOLES

**Mounting Torque**

- 61 Nm
- 159 Nm

**Additional T6CCP version shaft see page 33**

**1 B25 - B28 - B31 = 2500 R.P.M. max.**
**B28 - B31 = 210 bar max. int.**

- Not to use because internal leakage greater than 50% theoretical flow.

**Port connection can be furnished with metric threads.**

19 Parker Hannifin SAS
VPDE, Denison Vane Pumps
Vierzon - France
ANY PART TIME WHERE
we are doing our parts to keep you moving!