Mobile Hydraulic Pumps
T6DCM, T6DCP, T6DCMW
Denison Vane Technology, fixed displacement
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!
**Ordering Code**

Catalogue HY29-0002/UK

**Hydraulic Pumps, Fixed**

Series T6DC*, Denison Vane Pumps

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**Model No.**

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

**Use for severe duty shaft only**

Cam ring for "P1":
- B14 = 71.4 l/min
- B17 = 87.3 l/min
- B20 = 99.0 l/min
- B24 = 119.3 l/min
- B28 = 134.5 l/min
- B31 = 147.4 l/min

Cam ring for "P2":
- B03 = 16.2 l/min
- B05 = 25.8 l/min
- B06 = 31.9 l/min
- B08 = 39.6 l/min
- B10 = 51.1 l/min
- B12 = 55.6 l/min
- B14 = 69.0 l/min

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**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.

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**NOISE LEVEL (TYPICAL)**

Double pump noise level is given with each section discharging at the pressure noted on the curve.

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**PERMISSIBLE RADIAL LOAD**

Maximum permissible axial load Fa = 1200 N

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**Modification**

- **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)
  - 00 = standard

- **Direct. of rotation (view on shaft end)**
  - R = clockwise
  - L = counter-clockwise

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**Type of shaft**

- **P version**
  - 3 = splined (no SAЕ)

- **M version**
  - 1 = keyed (SAE C)
  - 2 = keyed (no SAЕ)
  - 3 = splined (SAE C)
  - 4 = splined (no SAЕ)

*5 = keyed (no SAЕ)
*T = splined (SAE J718c)

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**Series M = Mobile 1 shaft seal**

**Series P = Mobile 2 shaft seals**

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**B14 = 71.4 l/min**

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**Power loss Ps [kW]**

Total hydrodynamic power loss is the sum of each section at its operating conditions.
Hydraulic Pumps, Fixed
Series T6DC*, Denison Vane Pumps

Dimensions and Characteristics

### 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>
<th>Input power P [kW] &amp; n = 1500 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>p = 0 bar</td>
<td>p = 140 bar</td>
</tr>
<tr>
<td>P1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B14</td>
<td>47,6 ml/rev</td>
<td>71,4</td>
<td>62,1</td>
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<tr>
<td></td>
<td>B17</td>
<td>58,2 ml/rev</td>
<td>90,0</td>
<td>80,0</td>
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<tr>
<td></td>
<td>B20</td>
<td>79,5 ml/rev</td>
<td>119,3</td>
<td>110,0</td>
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<tr>
<td></td>
<td>B28</td>
<td>89,7 ml/rev</td>
<td>134,5</td>
<td>125,2</td>
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<td>B31</td>
<td>111,5 ml/rev</td>
<td>147,4</td>
<td>136,1</td>
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<tr>
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<td>120,3 ml/rev</td>
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<td>B50</td>
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<td>21,3 ml/rev</td>
<td>31,9</td>
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<td>39,6</td>
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<td>51,1</td>
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<td>B12</td>
<td>37,1 ml/rev</td>
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<td>B14</td>
<td>46,0 ml/rev</td>
<td>69,0</td>
<td>63,5</td>
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<tr>
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<td>B17</td>
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<td>B22</td>
<td>70,3 ml/rev</td>
<td>105,4</td>
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<td>B25</td>
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<td>118,9</td>
<td>113,5</td>
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<td>B28</td>
<td>88,8 ml/rev</td>
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<td>127,7</td>
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<tr>
<td></td>
<td>B31</td>
<td>100,0 ml/rev</td>
<td>150,0</td>
<td>144,5</td>
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</tbody>
</table>

1) B28 - B31 - B50 = 210 bar max. int. 2) B42 - B45 - B50 = 2200 R.P.M. max
- Not to use because internal leakage greater than 50% theoretical flow Port connection can be furnished with metric threads.

Additional T6DCM shaft code T: see page 33
Additional T6DCP version shaft see page 33
ANY PART TIME WHERE
we are doing our parts to keep you moving!

Damen Technical Agencies B.V.
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