Disc Brake Caliper - Type T2 Air Or Hydraulically Applied

Performance Data

Maximum Braking Force = 2kN @ 20 bar air or oil pressure. Braking Force is defined as the Tangential Force acting at the Effective Disc Radius. Braking Torque (Nm) = Braking Force (N) x Effective Disc Radius (m) where Effective Disc Radius (m) = Actual Disc Radius (m) - 0.019.

The ratings shown on the above graph are based on fully bedded-in pads.

Technical Data

Weight - 0.75kg (excluding mounting bolts)
Pad dimensions - 35 x 50 x 8mm thick (when new)
Pad friction coefficient - \( \mu = 0.4 \) (asbestos free material)
Pad wear allowance - 4mm
Total pad area - 34cm²
Hydraulic fluid (mineral) - Shell Tellus 37, Castrol Hyspin AWS 32 or equivalent
Initial Oil filling varies from 2ml (new) to 12ml when pads are fully worn
Oil displacement per 1mm stroke is 3ml per two caliper halves
**General Description**
The Twiflex Type T2 disc brake unit is a split caliper design and is adaptable for use on a wide range of disc sizes, varying in thickness from 5mm and over, and in diameter from 120mm and above.

The caliper will normally be mounted on a central mounting plate of the same thickness as the disc; the mounting plate is sandwiched between the caliper halves which are clamped to it by two cap screws M8 grade 12.9, tightened to 23Nm (17 lbf-ft) torque.

Alternatively, the caliper may be secured to a side mounting plate, in which case a spacer of the same thicknesses as the disc is used between the caliper halves.

Standard calipers are available with suitable fixings and transfer tubes to suit various disc thicknesses as follows:

<table>
<thead>
<tr>
<th>Disc Thickness mm</th>
<th>Standard Caliper Part No. Centre Mounting</th>
<th>Standard Caliper Part No. Side Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 6</td>
<td>6780872/AJ63</td>
<td>6780858/AK49</td>
</tr>
<tr>
<td>7 to 8</td>
<td>6780872/AH30</td>
<td>6780858/AH31</td>
</tr>
<tr>
<td>9 to 10</td>
<td>6780872/AJ62</td>
<td>6780858/AK35</td>
</tr>
<tr>
<td>11.7 to 12.7</td>
<td>6780872</td>
<td>6780858</td>
</tr>
<tr>
<td>19 to 20</td>
<td>6780872/AH33</td>
<td>6780858/AH32</td>
</tr>
<tr>
<td>24.4 to 25.4</td>
<td>6780872/AH34</td>
<td>6780858/AH21</td>
</tr>
</tbody>
</table>

The basic caliper comprises: 2 caliper halves with brake pads fitted, 1 transfer tube with seals, 1 blanking plug, 2 cap screws, and 2 nuts. A spacer is also supplied for side mounting versions. These units are suitable for use with air or mineral oil based hydraulic fluids.

Calipers for non standard disc thicknesses will be supplied to special order.

Calipers can also be supplied with seals suitable for use with automotive type brake fluids (vegetable oil based) and for extreme temperature applications.

**Spares**
- Friction Pad Kit: Part No. 7080130
- Spare Seal Kit (Mineral Oil): Part No. 6000352
  Kit comprising two piston seals and two O-rings.
- Spare Seal Kit (Vegetable Oil): Part No. 6000353
  Kit comprising two piston seals and two O-rings.
- Pipe Fitting Kit (North America): Part No. 7300856
  Comprising 1 adapter 1/8” BSP (male) to 1/8” NPT (female) and 1 sealing washer

**Service**
Addresses all enquiries regarding this equipment to your Twiflex agent or directed to Twiflex.