MU3 Disc Brake Caliper - Pneumatically applied Spring released

Nominal dimensions given
For caliper dimensions see DS1000

Braking Force is defined as the Tangential Force acting on the brake disc at the Effective Disc Radius.

\[
\text{Braking Torque (Nm)} = \text{Braking Force (N)} \times \text{Effective Disc Radius (m)}
\]

where Effective Disc Radius = Actual Disc Radius - 0.02.

Twiflex Disc Brakes must be used with Twiflex asbestos free brake pads. The use of any other brake pads will invalidate the warranty.

Twiflex reserves the right to modify or change the design without prior notice.

The ratings shown on the above graph are based on fully bedded and conditioned brake pads with nominal friction coefficient \( \mu = 0.4 \).

For bedding-in and conditioning procedures see Publication M1060.

Maximum Braking Force = 2.75kN @ 5 bar

Air Pressure - bar

Braking Torque - Nm

Disc Diameter mm

0 100 200 300 400 500 600 700

0 1 2 3 4 5

Maximum pressure 5 bar

Weight (caliper and thruster) - 1.9kg
(thruster only) - 1.15kg

Volume displacement of thruster at 13mm stroke is 300ml.
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Thruster Part Number 7201125

<table>
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<th>Item</th>
<th>Component</th>
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<tbody>
<tr>
<td>1</td>
<td>Diaphragm Kit</td>
<td>7902797</td>
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<tr>
<td>2</td>
<td>Piston Rod Assembly</td>
<td>7200919</td>
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This range of pneumatically operated brakes uses dry and filtered compressed air at pressures up to 7 bar. Pneumatic brakes require a control valve which may be operated either manually, or by pneumatic or electrical signal. Should it become necessary to replace a diaphragm, ensure air supply is disconnected, remove the M5 fixing screws and the rear cap of the thruster. Remove the worn diaphragm; clean-up the contactingsurfaces and re-assemble with the new diaphragm and fixing screws in position.

1. Offer thruster to caliper making sure that both lock nuts are removed before placing push rod through caliper arm
2. Fit Packing washer and spacer (see fig 1 and 2 below)
3. Fit lock nuts over the push rod
4. Tighten one lock nut to 50-60 Nm then tighten the second nut against the first

Fig 1. Assembly for 8mm disc
Fig 2. Assembly for 12.7mm disc

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