High Pressure Adapter for PICO® Pulse™ Valves

Instructions

Introduction
The high pressure adapter kit can be installed on a PICO Pulse valve for applications that require a material supply pressure greater than 7.0 bar (100 psi).

⚠️ WARNING
Do not exceed a fluid pressure of 48 bar (700 psi).

Illustrations of Assembled Kits
The following images show the high pressure adapter kit options installed on a Pulse valve. Continue to the next page for assembly instructions.

High pressure adapter kit, straight fitting
P/N 7362459

High pressure adapter kit, 90° fitting
P/N 7362543
Assembly — Straight High Pressure Adapter

1. Loosely install the M2 x 8 screws 7 into the base bracket 2 on the valve. Tighten to 0.37 N•m (3.3 in.-lb).

2. Use the M2 x 6 screws 6 to install the slider bracket 5. Do not tighten the screws at this time.

3. Install the O-ring 8 in the receiving groove of the M5 adapter fitting 1.

4. Install the M5 adapter fitting 1 and O-ring 8 in the M5 inlet port of the fluid body 10. Tighten to 1.5 N•m (1.1 ft-lb).

5. Assemble the hose 9 and then loosely assemble its compression nut on the M8 thread of the M5 adapter fitting 1.

6. Loosely install the M2 x 10 screws 4 into the cap bracket 3 and slider bracket 5, capturing the hose assembly. Do not tighten the screws at this time.

7. While holding the M5 adapter fitting 1 to keep it from turning (and thus over-tightening the M5 thread for the valve inlet), tighten the compression nut on the hose assembly 9 (two 10-mm wrenches).

8. Tighten the M2 x 10 screws 4 to 0.37 N•m (3.3 in.-lb).

9. Being sure not to twist or move the fluid body assembly, tighten the M2 x 6 screws 6 to 0.37 N•m (3.3 in.-lb).

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<table>
<thead>
<tr>
<th>Item #</th>
<th>Component</th>
<th>Torque Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M5 adapter fitting</td>
<td>1.5 N•m (1.1 ft-lb)</td>
</tr>
<tr>
<td>4</td>
<td>M2 x 10 screws</td>
<td>0.37 N•m (3.3 in.-lb)</td>
</tr>
<tr>
<td>6</td>
<td>M2 x 6 screw</td>
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<tr>
<td>7</td>
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**NOTE:** Items 4 and 6 are tightened to these specifications at the end of assembly.
Assembly – 90° High Pressure Adapter

1. Use the M2 x 8 screws 7 to install the base bracket 2 on the valve. Tighten to 0.37 N•m (3.3 in.-lb).

2. Loosely install the M2 x 6 screws 6 into the slider bracket 5. Do not tighten the screws at this time.

3. Install the O-ring 1 in the receiving groove of the M5 adapter fitting 1.

4. Install the M5 adapter fitting 1 and O-ring 8 in the M5 inlet port of the fluid body 10. Tighten to 1.5 N•m (1.1 ft-lb)

5. Thread the straight tube fitting 11 into the 90° adapter fitting 9 (11-mm and 12-mm wrenches). Tighten to 4 N•m (3 ft-lb).

6. Loosely install the compression nut 13 onto the M5 adapter fitting 1.

7. Insert the 4-mm OD tube 12 into the compression nut 13 until the tube bottoms out inside the nut.

8. Install the straight tube fitting 11 and 90° adapter fitting 9 assembly onto the top of the 4-mm OD tube 12.

9. Loosely install the M2 x 10 screws 4 into the cap bracket 3 and slider bracket 5, capturing the 90° adapter fitting assembly. Do not tighten the screws at this time.

10. While holding the M5 adapter fitting 1 to keep it from turning (and thus over-tightening the M5 thread for the valve inlet), tighten the compression nut 13 (two 10-mm wrenches).

11. Align the 90° adapter fitting 9 to the desired orientation while simultaneously tightening the compression nut on the straight tube fitting 11 (12-mm and 10-mm wrenches).

12. Tighten the M2 x 10 screws 4 to 0.37 N•m (3.3 in.-lb).

13. Being sure not to twist or move the fluid body assembly, tighten the M2 x 6 screws 6 to 0.37 N•m (3.3 in.-lb).

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**Item #** | **Component** | **Torque Specification**
--- | --- | ---
1 | M5 adapter fitting | 1.5 N•m (1.1 ft-lb)
4 | M2 x 10 screws | 0.37 N•m (3.3 in.-lb)
6 | M2 x 6 screw | 0.37 N•m (3.3 in.-lb)
7 | M2 x 8 screws | 0.37 N•m (3.3 in.-lb)
11 | Straight tube fitting | 4 N•m (3 ft-lb)

**NOTE:** Items 4 and 6 are tightened to these specifications at the end of assembly.
## Replacement Parts

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>7362459</td>
<td>High pressure adapter kit, straight fitting</td>
</tr>
<tr>
<td></td>
<td>7362543</td>
<td>High pressure adapter kit, 90° elbow</td>
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