

High Pressure Adapter for PICO® *Pμ*lse™ Valves

Instructions

Introduction

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

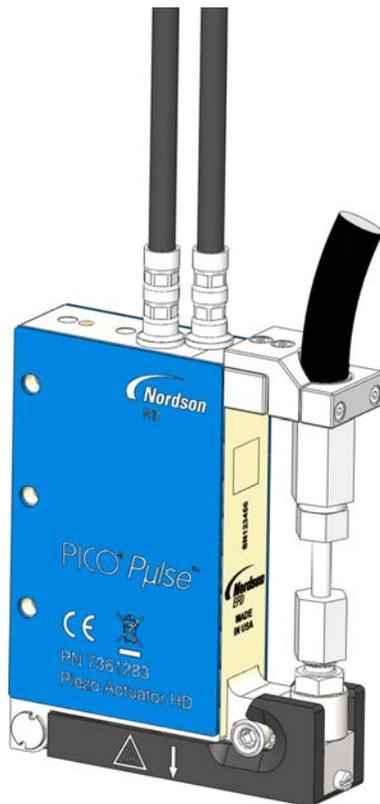


WARNING

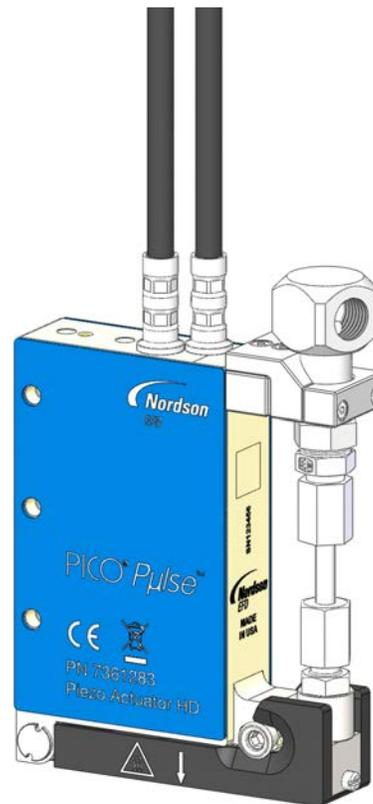
Do not exceed a fluid pressure of 48 bar (700 psi).

Illustrations of Assembled Kits

The following images show the high pressure adapter kit options installed on a *Pμ*lse valve. Continue to the next page for assembly instructions.



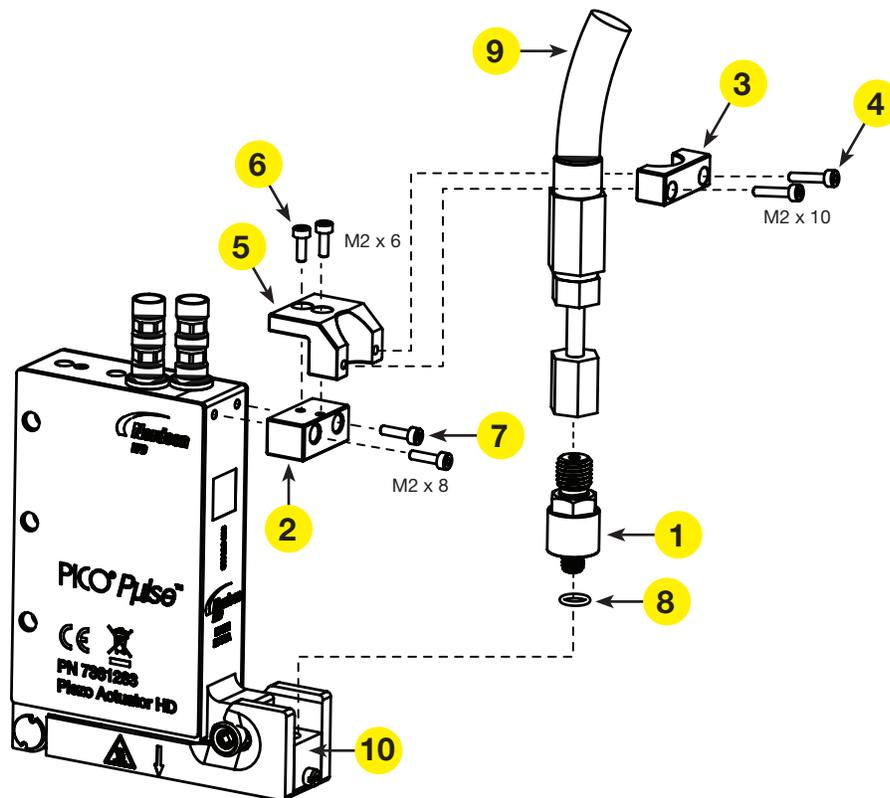
High pressure adapter kit, straight fitting
P/N 7362459



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).

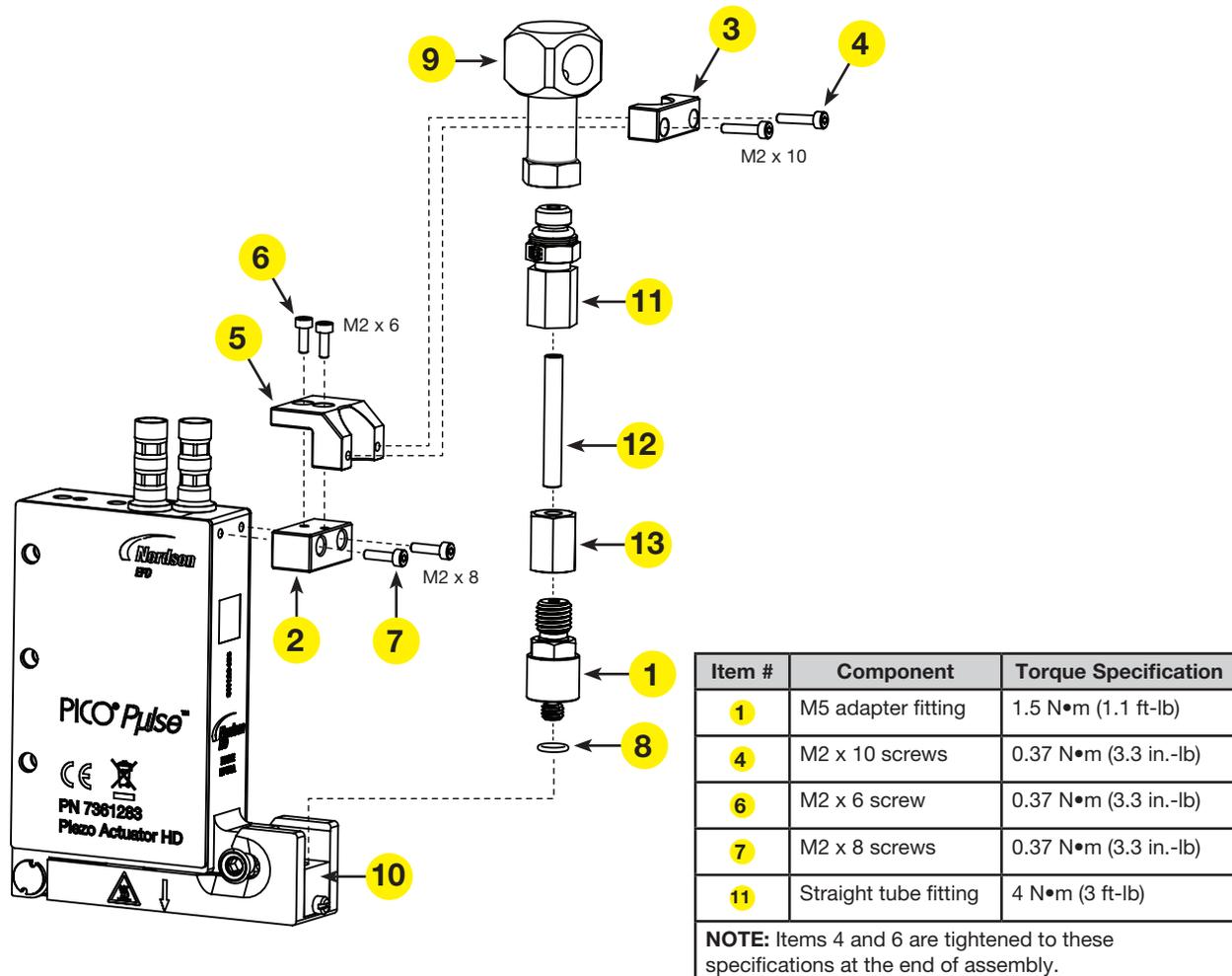


Item #	Component	Torque Specification
1	M5 adapter fitting	1.5 N•m (1.1 ft-lb)
4	M2 x 10 screws	0.37 N•m (3.3 in.-lb)
6	M2 x 6 screw	0.37 N•m (3.3 in.-lb)
7	M2 x 8 screws	0.37 N•m (3.3 in.-lb)

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

Assembly – 90° High Pressure Adapter

- 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).
- Loosely install the M2 x 6 screws **6** into the slider bracket **5**. Do not tighten the screws at this time.
- Install the O-ring **8** in the receiving groove of the M5 adapter fitting **1**.
- 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)
- 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).
- Loosely install the compression nut **13** onto the M5 adapter fitting **1**.
- Insert the 4-mm OD tube **12** into the compression nut **13** until the tube bottoms out inside the nut.
- Install the straight tube fitting **11** and 90° adapter fitting **9** assembly onto the top of the 4-mm OD tube **12**.
- 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.
- 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).
- 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).
- Tighten the M2 x 10 screws **4** to 0.37 N•m (3.3 in.-lb).
- 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).



Replacement Parts

Item	Part #	Description
	7362459	High pressure adapter kit, straight fitting
	7362543	High pressure adapter kit, 90° elbow



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