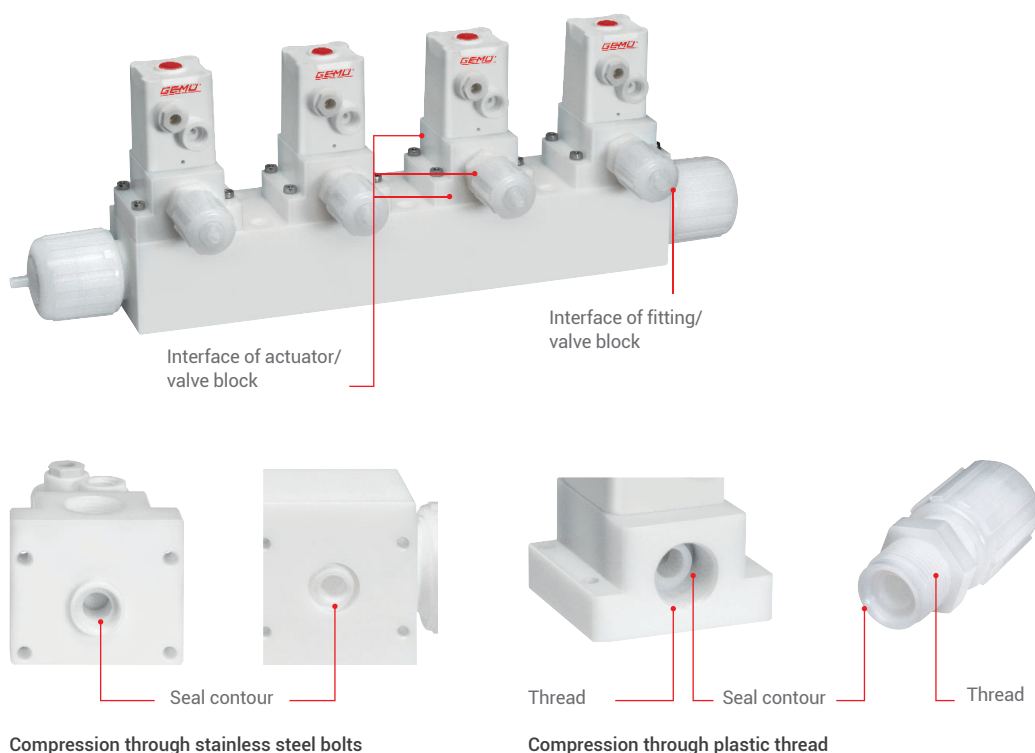


Self-sealing joint for GEMÜ PC50 iComLine valve block solutions

An essential component of the modular design of GEMÜ PC50 iComLine valve block solutions is self-sealing connection technology. This is increasingly being used at leading plant engineering companies in the semiconductor industry.

Why self-sealing joints?

In the presence of chemicals and additives as well as of elevated temperatures, elastomer seals can reach their limits of wear. The faulty O-rings can cause direct and indirect consequential costs through machine downtimes, recalls or environmental damage. Therefore, GEMÜ has developed an innovative sealing method without O-rings for its iComLine product range.



Diagrammatic view of sealing without O-rings

Features

- Sealing without additional elastomer seal
- Almost zero deadleg
- Two different connection variants

Technical specifications

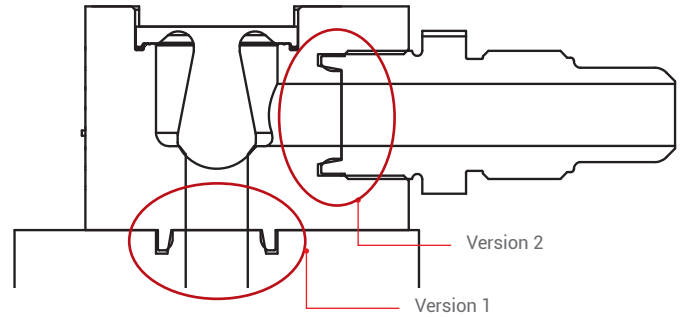
Nominal sizes: $\frac{3}{8}$ ", $\frac{1}{2}$ ", other nominal sizes on request

Media temperature: -10 to 150 °C

Connection types: Seal-free sealing

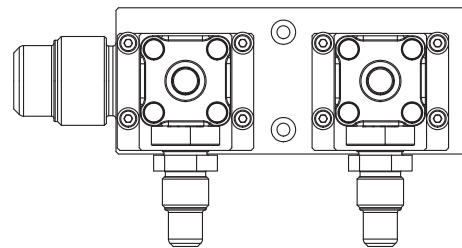
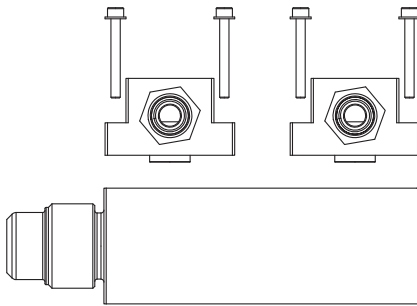
Body materials: PTFE

Operating pressure: 0 to 6 bar



Version 1

Here, the two contours are compressed only using the four screws arranged around the sealing contour. The contours are pressed against each other due to the tightening torque of the screws.



Version 2

In this version, the compression or pressure of the two seal contours is provided through a thread. The contours are pressed together through the rotary movement and the thread pitch.

