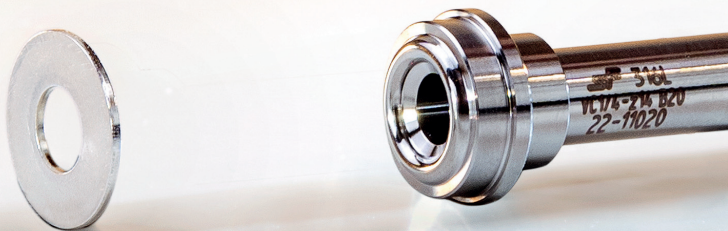


ASSEMBLY INSTRUCTION

VC-Couplings with Metal Sealing Disc



MA-VC
10.2024 Rev. 1

Focus in details®

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VC-Couplings with Metal Sealing Disc

Information

VC connectors are high-quality precision connectors in which the compression of a metal sealing disc creates a connecting element for a wide range of high-tech applications. Typical areas of use are laboratories, analysis, high-purity gases, semiconductors, the chemical industry, ultra-high vacuum and high-pressure applications. The fitting is characterised by its small space requirement, as it can be installed with almost no axial play. This allows for very compact systems with few elements.

By using only metallic components and dispensing with elastomer seals, they are also suitable for critical media and for the high and low temperature range.

The screw fittings can be reused many times and helium-tight systems can be done without any problems.

Components



Nut – The nut is silver-coated in the thread, which prevents cold welding and enables easy disassembly. Leakage tests can also be carried out via the test connection (side hole).



Gland – The surface quality meets an Ra of $<0.4 \mu\text{m}$.



Sealing disc – 1.4404, soft annealed and silver-plated.



Body – The compressed face contour guarantees that only the sealing disc is deformed and the body can be used many times without signs of wear.



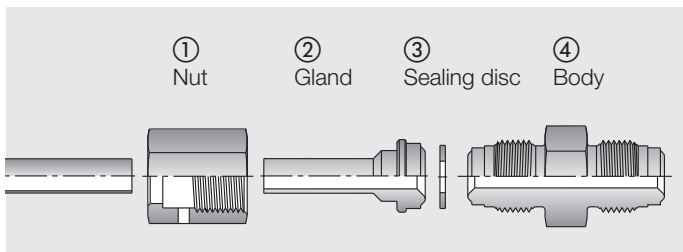
VC-Couplings with Metal Sealing Disc

■ Assembly

1. Before installing the components (1-4), make sure that they are free of damage and dirt.
2. The nut (1) is then pushed over the Gland (2) in the direction of the VC connection side.
3. The sealing disc (3) is placed on the VC connection side of the Gland (2) inside the nut (1).
4. The body (4) is now connected to the Gland (2). To do this, first tighten the connection finger-tight and then finish assembly with 1/8 to 1/4 turns. It is important to ensure that the body is held in position while the nut is tightened. This prevents possible scoring within the screw connection.
5. A leak test is recommended after assembly.

Note:

A new sealing disc (3) must be used for each repeat assembly to prevent leakage due to deformation. All sealing surfaces must be free of dirt or damage.



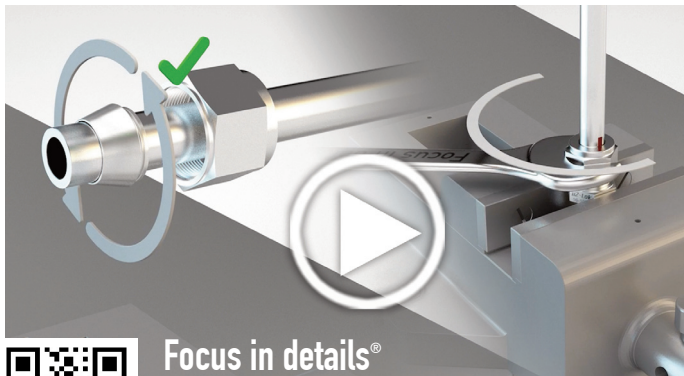


Installation Videos

■ Installation Videos

Our installation videos can be found at:

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