

VAVC-Q2-M22C
Seal cartridge

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8198768
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Assembly instructions
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Translation of the original instructions
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1 Applicable documents

Table with 3 columns: Document, Product, Content. Row 1: Operating instruction, Pinch valve VZQA-C-M22C, -. Row 2: Operating instruction, Pinch valve VZQH, -.

2 Safety

- 2.1 Safety instructions
- Before carrying out any work on the product: switch off the medium supply and secure it against being switched back on.
- 2.2 Intended use
The seal cartridge controls the media flow.
- 2.3 Training of qualified personnel
Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers.

3 Additional information

- Contact the regional Festo contact if you have technical problems -> www.festo.com.
- Accessories and spare parts -> www.festo.com/catalogue.

4 Product Range Overview

4.1 Scope of delivery

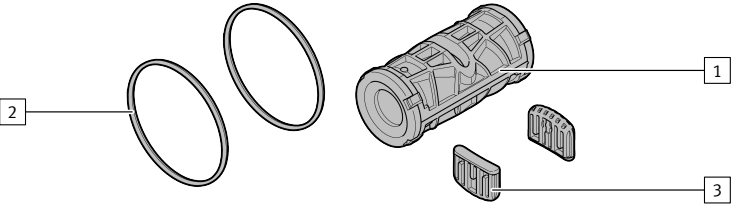


Fig.1
1 Seal cartridge (1x)
2 O-ring (2x)
3 Plunger (2x)

4.2 Not in scope of delivery

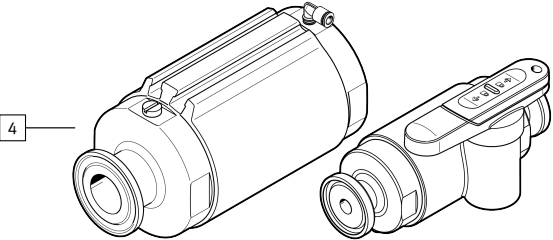


Fig.2
4 Pinch valve (1x)
VZQA-C-M22C, VZQH

5 Assembly

5.1 Preparation

WARNING
Risk of injury from media residues.
Wear personal protective equipment during assembly work.
1. Remove the pinch valve [4] from the piping system -> 1 Applicable documents.
WARNING
Risk of injury from flying components.
When the cover is opened, the spring inside the valve is suddenly released.
Secure the cover with a suitable holding device when loosening.

- 2. For VZQA-C-M22C-25: lock the cover [7] with a suitable holding device, e.g. a lever press.
- 3. Open the pinch valve [4] on the cover [7] with the plug screw.
- 4. Remove the old seal cartridge in reverse order of assembly.

5.2 Assembly

- 1. Replace the old seal cartridge with an identical seal cartridge [1].
- Check: identical characteristics of seal cartridge and valve [4].
- Example: size 15
- Seal cartridge -> VAVC-Q2-M22C-15-E
- Valve [4] -> VZQA-C-M22C-15-GG-V2V4E-6
- 2. Select the grease that is suitable for the installation situation and the media.
- 3. Select the cleaning agent that is suitable for the installation situation and the media.
- 4. Clean the pipe [5] with a lint-free cleaning cloth.

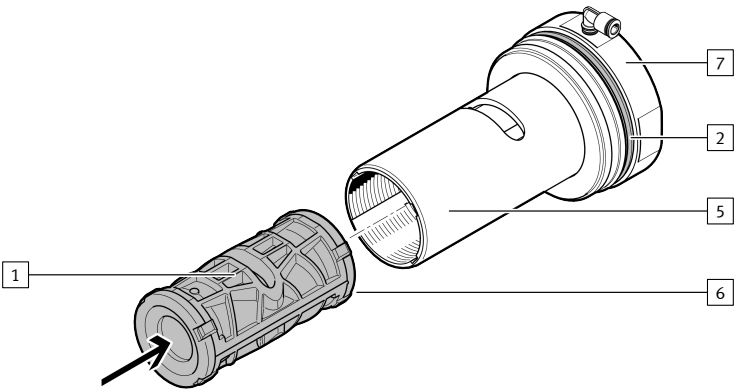


Fig. 3: Assembling seal cartridge

- 1. Grease the flange [6] of the seal cartridge [1].
- 2. Push the seal cartridge [1] into the pipe [5].
- 3. Mount the O-rings [2] on both covers [7].

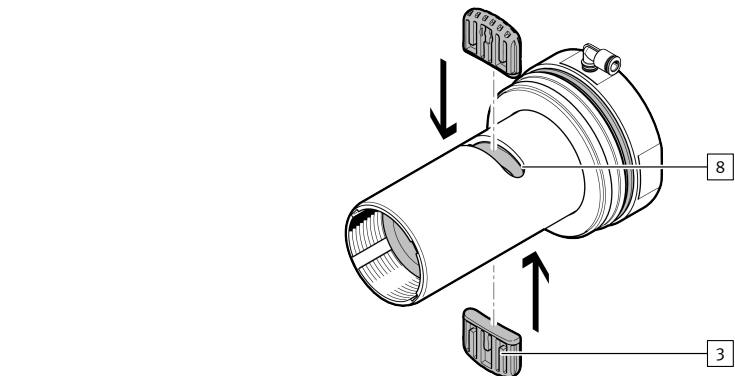


Fig. 4: Assembly of plungers

- 1. Grease the plungers [3].
- 2. Make sure the plungers [3] are aligned.

Table with 3 columns: VAVC-Q2-M22C-6, VAVC-Q2-M22C-15, VAVC-Q2-M22C-25. Each column shows a diagram of the plunger (3) being pushed into the port (8).

- 3. Push the plungers [3] into the ports [8].

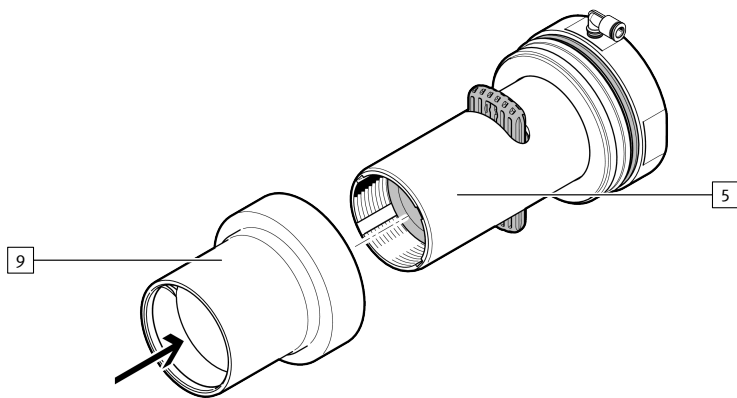


Fig. 5: Assembly of return piece

1. Grease the outside of the pipe [5].
2. Grease the inside of the return piece [9].
3. Slide the return piece [9] onto the pipe [5].

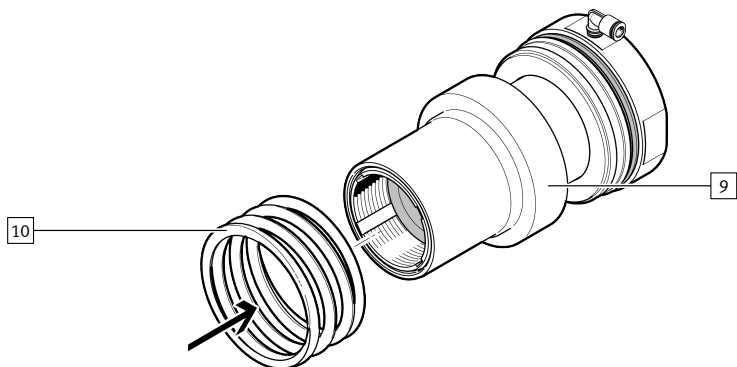


Fig. 6: Assembly of compression spring

1. Check the compression spring [10] for external damage. If necessary, replace the compression spring [10] → 3 Additional information.
2. Slide the compression spring [10] onto the return piece [9].

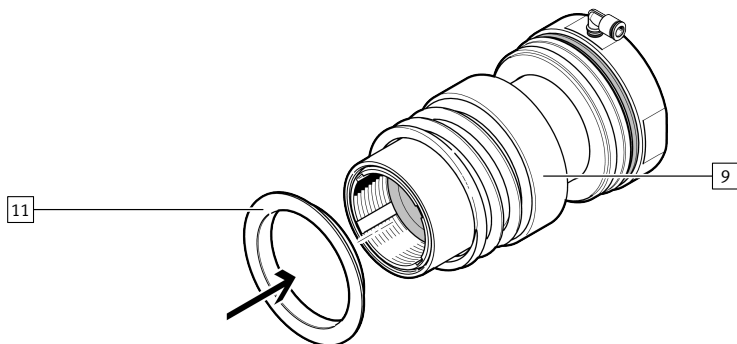


Fig. 7: Assembly of sleeve

For VAVC-Q2-M22C-15 only:

1. Check the sleeve [11] for external damage. If necessary, replace the sleeve [11] → 3 Additional information.
2. Make sure the sleeve [11] is aligned.
3. Slide the sleeve [11] onto the return piece [9].

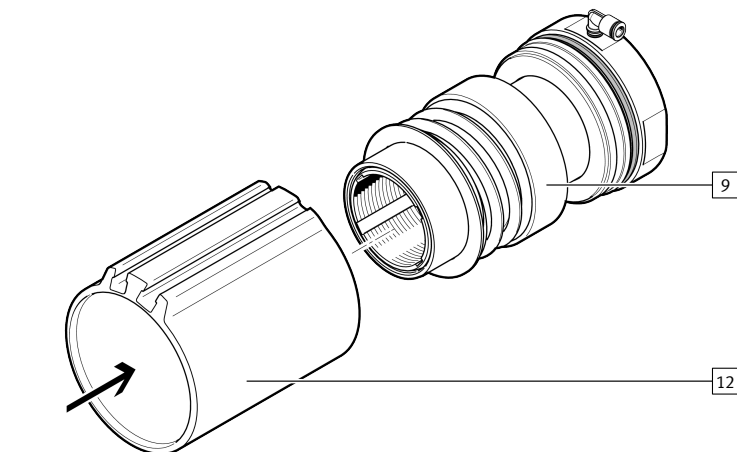


Fig. 8: Assembly of housing

1. Clean the inside of the housing [12] with a lint-free cleaning cloth.
2. Grease the inside of the housing [12].
3. Slide the housing [12] to the stop.

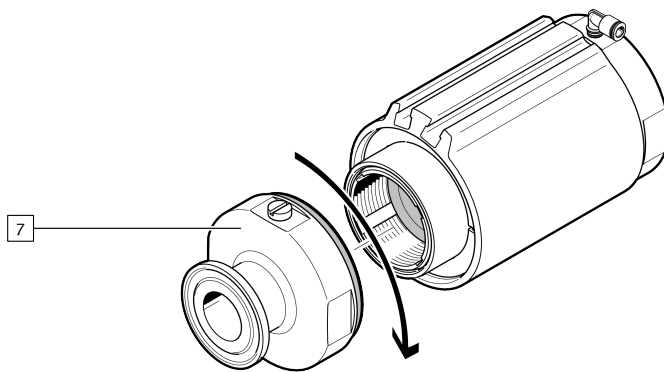


Fig. 9: Mounting cover

1. Grease the male thread of the cover [7].
2. Tighten the cover [7].

|                 |           | Cover [7]      |                |           |
|-----------------|-----------|----------------|----------------|-----------|
|                 |           | VZQA-...-...V4 | VZQA-...-...AL | VZQH      |
| VAVC-Q2-M22C-6  | ≈ 32 [Nm] | 15 ± 10 %      | 5 ± 10 %       | 15 ± 10 % |
| VAVC-Q2-M22C-15 | ≈ 50 [Nm] | 40 ± 10 %      | 40 ± 10 %      | –         |
| VAVC-Q2-M22C-25 | ≈ 85 [Nm] | 40 ± 10 %      | 40 ± 10 %      | –         |

3. Check that the valve [4] is leak-proof.
4. Install the valve [4] in the piping system → 1 Applicable documents.