

Service guide

Non-return valve

VCM 10 / VCM 13

Disassembling and Assembling



The Service guide covers the instruction for disassembling and assembling the VCM 10 and VCM 13 Non-return valve.

IMPORTANT:

It is essential that the VCM 10 and VCM 13 are serviced in conditions of absolute cleanliness.

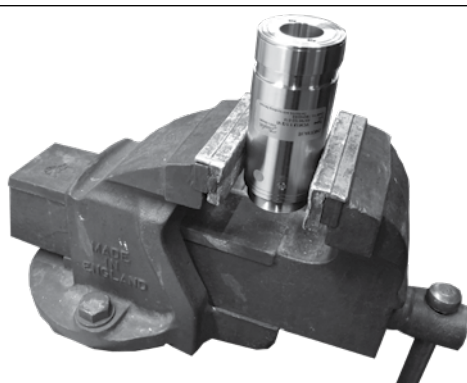
WARNING:

Do not use silicone when assembling the VCM 10 and VCM 13. Do not reuse disassembled O-rings; they might be damaged. Always use new O-rings.

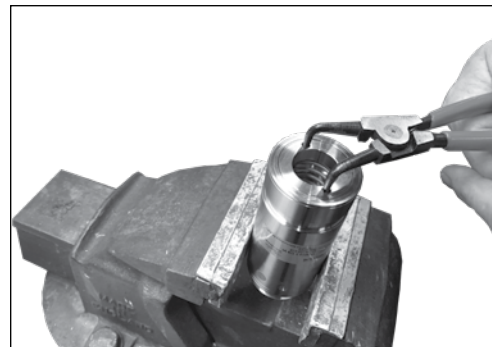
For a better understanding of the VCM 10 and VCM 13, please see the sectional view.

Tools needed:

- Snap ring pliers
- Screwdriver

Disassembling

1. Mount the VCM10 / VCM 13 into a vice with aluminum trays.



2. Turn the nut CCW with snap ring pliers.



3. Remove the nut.



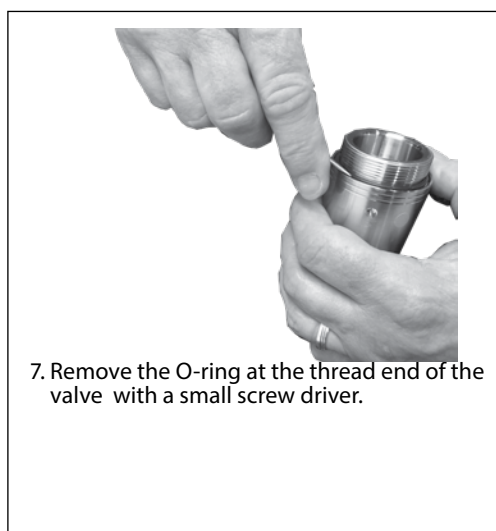
4. Remove the spring.



5. Remove the valve cone.



6. Remove the O-ring at the cone with a small screw driver.



7. Remove the O-ring at the thread end of the valve with a small screw driver.

Assembling

1. Lubrication:

- To prevent seizing-up, lubricate threads with PTFE lubrication type.
- O-ring inside VCM 10 / VCM 13 may be lubricated only with clean filtered water.
- O-rings at the thread end must be lubricated.
- It is important to lubricate ALL parts to be assembled with clean filtered water.



2. Mount the lubricated O-ring at the thread end of the valve.



3. Mount the water lubricated O-ring on the cone. Ensure the O-ring is pushed fully into the O-ring groove.



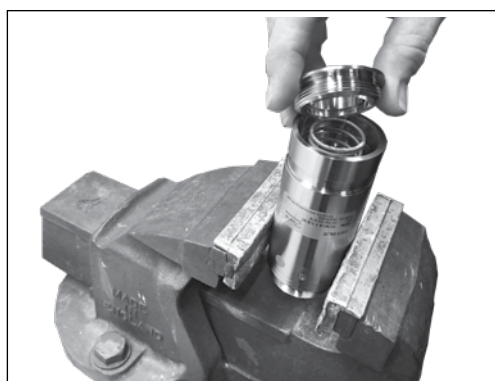
4. Mount the cone.



5. Mount the spring onto the cone.



6. Lubricate the threads of the nut.



7. Screw in the nut.



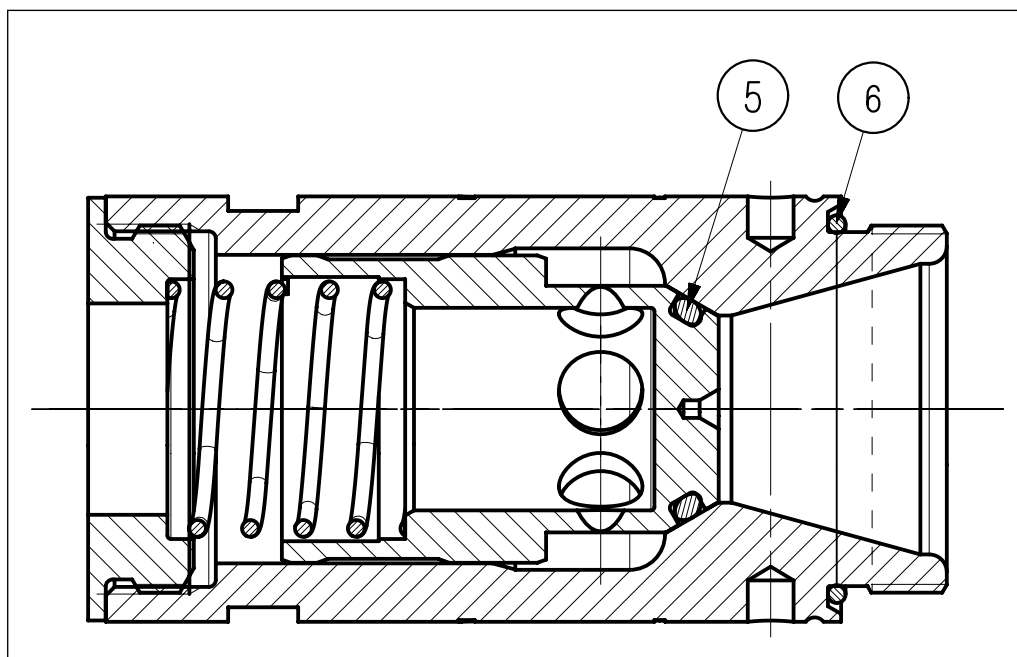
8. Tighten the nut with a snap ring pliers.



9. Lubricate the threads at the valve end.

Testing valve function:

Verify free movement of valve cone.

**Spare part list and
sectional drawing****Spare part list**

Pos.	Qty.	Designation	Material	Seal set 180H4003
5	1	O-ring 19.20 x 3.00	NBR	x
6	1	O-ring 40.00 x 2.00	NBR	x

Service interval

4 years for inspection and exchanging O-rings as needed.

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