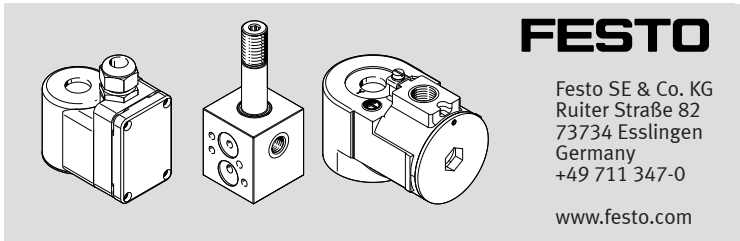


VOFD

Solenoid valve



Assembly instructions

8196581
2023-07b
[8196583]



Translation of the original instructions

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1 Applicable documents

All available documents for the product → www.festo.com/sp.

2 Safety

2.1 Safety instructions

- Only mount the product on components that are in a condition to be safely operated.
- Clean connecting cables and screw fittings thoroughly before assembly.
- Do not use anti-friction coating or lubricant.
- Do not use additional sealing material such as PTFE sealing band or hemp.
- Prevent accumulation of condensate in the valve.

For outside applications

- Duct exhaust air.
- Use exhaust protection VABD-D3-....

With solenoid coil VACC-S13/-18 (DC variants)

- Take suitable measures for protective circuit to limit peak disconnection voltages.

2.2 Intended use

A solenoid valve is made by combining basic valve [1] and the solenoid coil [2].

3 Additional information

- Accessories → www.festo.com/catalogue.

4 Product Range Overview

4.1 Scope of delivery

4.1.1 VOFD-L35T/-L50T/-L100T

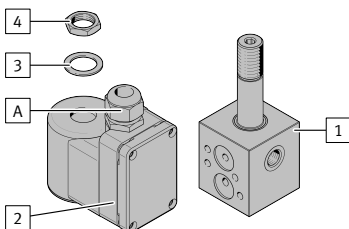


Fig. 1: VOFD-L35T/-L50T/-L100T

- [1] Basic valve (1x)
VOFD
- [2] optional solenoid coil (1x)
VACC-S18
- [3] Retaining washer (1x)
- [4] Nut (1x)
- [A] Cable fitting (1x)
M20x1.5

4.1.2 VOFD-...-EX...D

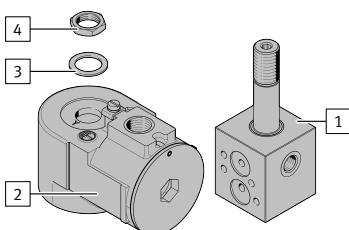
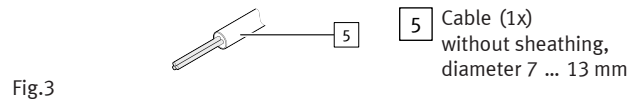


Fig. 2: VOFD-...-EX...D

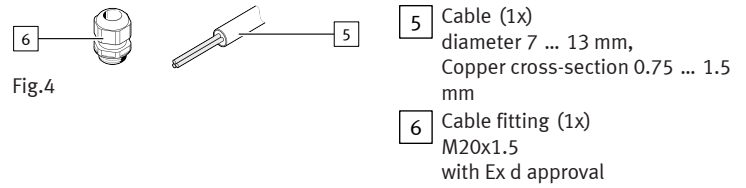
- [1] Basic valve (1x)
VOFD
- [2] optional solenoid coil (1x)
VACC-S18
- [3] Retaining washer (1x)
- [4] Nut (1x)

4.2 Not in scope of delivery

4.2.1 VOFD-L35T/-L50T/-L100T



4.2.2 VOFD-...-EX...D



5 Assembly

5.1 VOFD-L35T/-L50T/-L100T

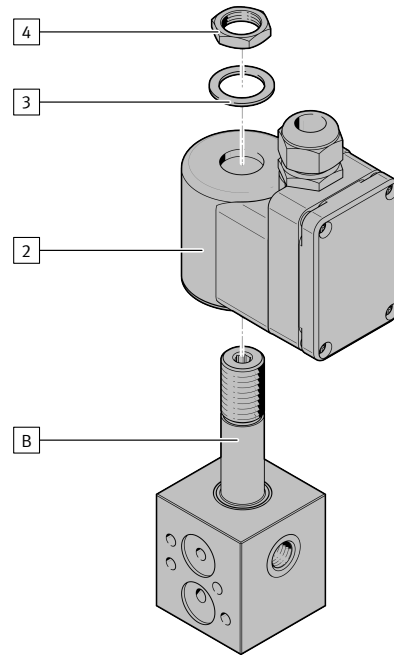


Fig.5

1. Slide solenoid coil [2] onto the armature guide tube [B].
2. Slide retaining washer [3] onto the armature guide tube [B].

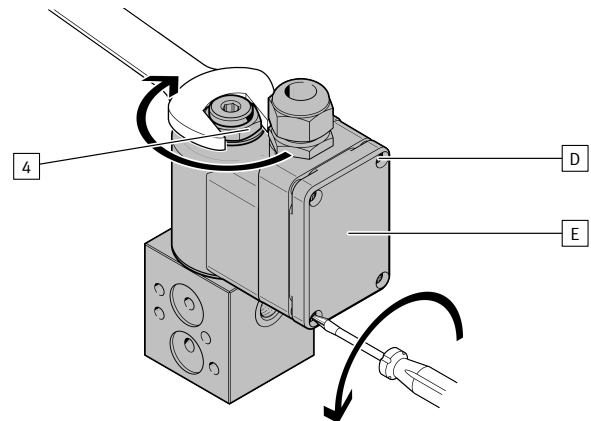
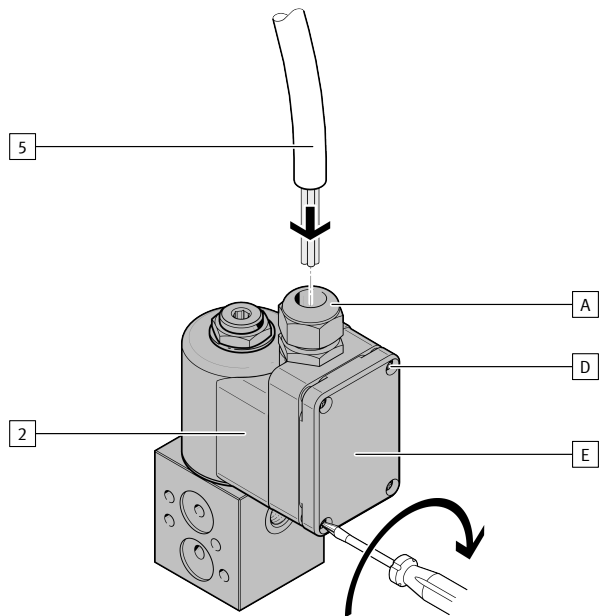


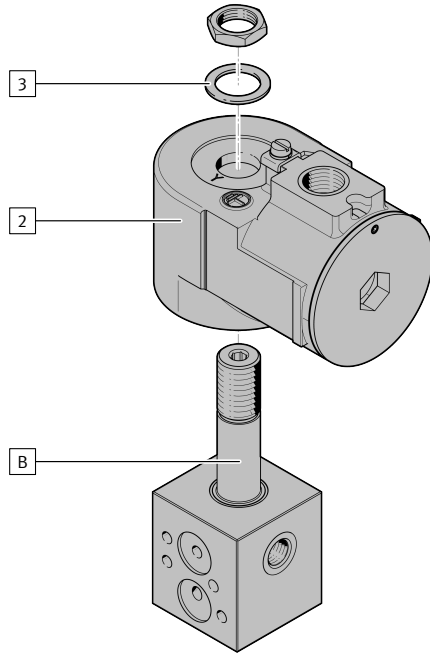
Fig.6

1. Tighten the nut [4].
 - Spanner size: ≈ 22
 - Tightening torque: 17.5 Nm ± 10 %
2. Unfasten the screws [D] on the terminal housing.
3. Open the cover [E] of the terminal housing.

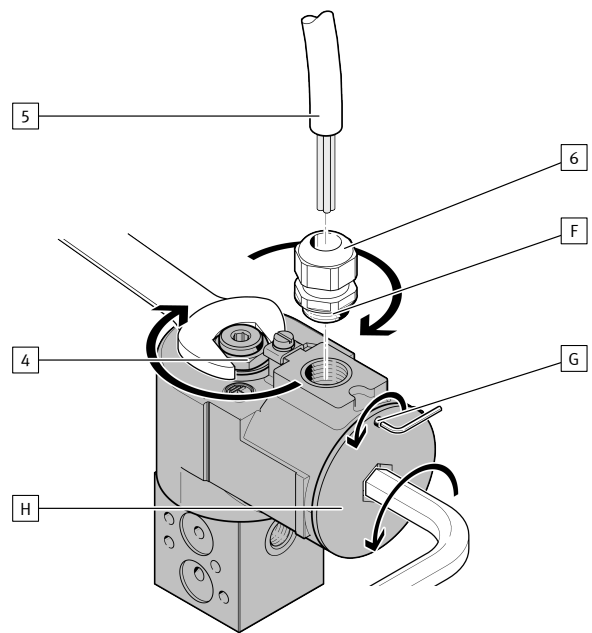


- Fig.7
1. Unscrew the cable fitting [A].
 2. Guide the cable [5] through the cable fitting (A).
 3. Wire the cable [5] to the terminals.
 4. Connect the solenoid coil [2] to the local equipotential bonding via the inner or outer protective earth connection.
 5. Tighten the cable fitting [A]. Tightening torque: $1.5 \text{ Nm} \pm 10 \%$
 6. Close the cover [E] of the terminal housing.
 7. Tighten the screws [D]. Tightening torque: $1.5 \text{ Nm} \pm 10 \%$
 8. After assembly, actuate the solenoid valve a few times.

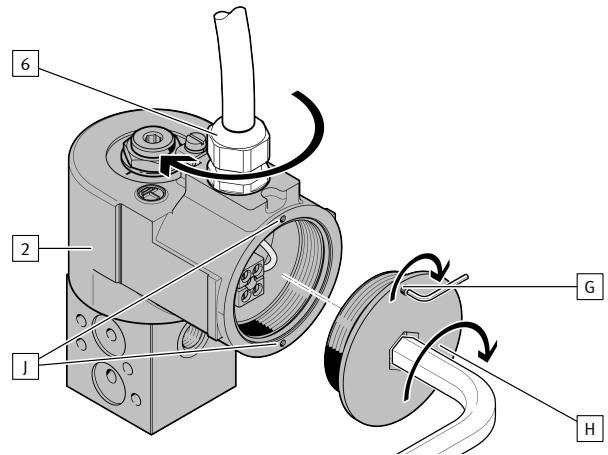
5.2 VOFD-...-EX...D



- Fig.8
1. Slide solenoid coil [2] onto the armature guide tube [B].
 2. Slide retaining washer [3] onto the armature guide tube [B].



- Fig.9
1. Tighten the nut [4].
 - Spanner size: ≈ 22
 - Tightening torque: $17.5 \text{ Nm} \pm 10 \%$
 2. Unscrew the threaded pin [G] 3 mm.
 3. Open the cover [H] of the terminal housing.
 4. Tighten the screw (F) of the cable fitting [6].
 5. Guide the cable [5] through the cable fitting [6].



- Fig.10
1. Connect the solenoid coil [2] to the local equipotential bonding via the inner or outer protective earth connection.
 2. Unscrew the cable fitting [6].
 3. Tighten the cover [H] of the terminal housing to the stop.
 4. Slacken the cover [H] until the threaded pin [G] is positioned above the nearest locking hole [J].
 5. Tighten the threaded pin [G] to the stop.
 6. After assembly, actuate the solenoid valve a few times.

6 Technical data

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The degree of protection of the product may be influenced by using accessories with a lower degree of protection.

VOFD

Degree of protection in mounted state	IP65
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Tab. 1: Technical data