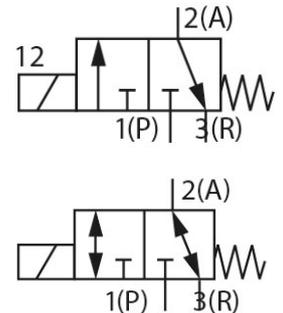


Media-separated solenoid valves are an important component in the control of fluids in systems. With these direct or pilot operated valves only the fluid housing and the separating diaphragm come into contact with the medium. </p>
 <p>Thus, these valves can withstand many different media (see resistance chart).

In addition, the brass housing meets all the conventional potable water requirements. The direct controlled valve in the 3/2-way design can be used either as a mixing valve or for any desired flow direction.
The pilot operated valve is normally closed in the basic position. By simply turning the 3/2-way pilot valve, the basic position can be changed to normally open.

| | |
|-----------------------|--|
| Housing | Brass |
| Valve seat | Brass |
| Internal parts | Brass |
| Medium | Neutral medium such as compressed air, town gas, water, hydraulic oil, oils and fats without additives, oxygen (NBR) |
| | Oxydizing acids and substances, hot oils with additives, salt solutions, waste gases, oxygen (FKM) |
| Medium temperature | 0 °C to 80 °C (NBR) 0 °C to 90 °C (FKM) |
| Viscosity | Max. 37 mm ² /s |
| Installation position | Any, preferably actuator face up |



| | |
|------------------------|--|
| Electrical connection | Pin terminal acc. to DIN EN 175301-803 |
| Voltage tolerance | ±10 % |
| Nominal operating mode | Continuous operation 100 % duty cycle |
| Protection IP | IP 65 (with connector socket fitted) |
| Switching times AC | Opening: 8...15 ms Closing: 8...15 ms |
| Switching times DC | Opening: 10...20 ms Closing: 10...20 ms |
| Insulation class | H |

P 3-536 e

3/2-way solenoid valve

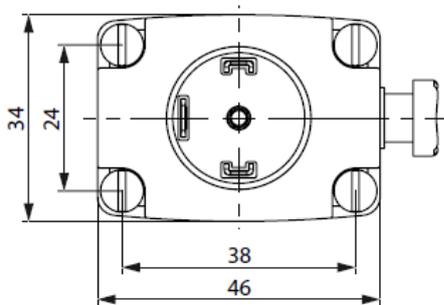
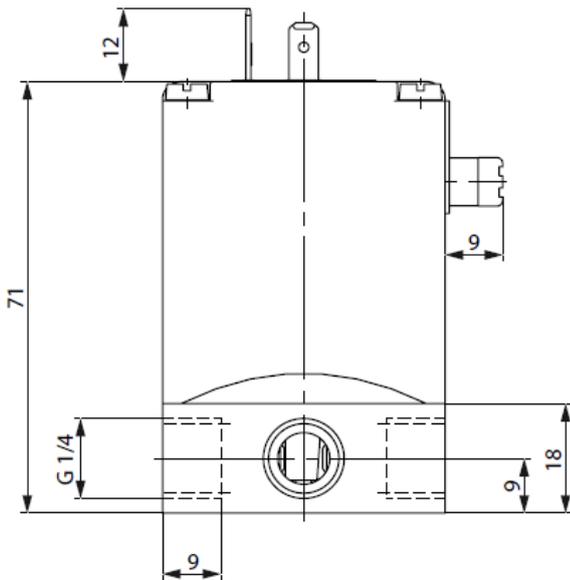
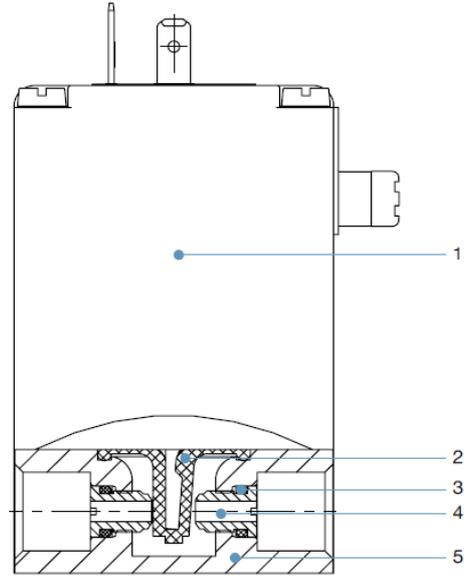
directly operated, media-separated

Art. No. 125807 to 125817



Materials

| No. | Element | Material |
|-----|------------|--|
| 1 | Coil | Epoxy |
| 2 | Diaphragm | NBR / FKM Optional: EPDM / FFKM |
| 3 | O-ring | NBR / FKM Optional: EPDM / FFKM |
| 4 | Seat | Brass Optional: Stainless steel (1.4401) / PP (Polypropylene) / PVDF (Polyvinylidene fluoride) |
| 5 | Valve body | Brass Optional: Stainless steel (1.4401) / PP (Polypropylene) / PVDF (Polyvinylidene fluoride) |



Media-separated 3/2-way solenoid valve, normally closed, directly operated, alternating current

| Art. No. | Type No. | Thread | DN | Voltage | Sealant | Operating pressure bar |
|----------|----------------------|--------|----|---------|---------|------------------------|
| 125807 | MVC.14.MS.230.N.BD.3 | G 1/4 | 3 | 230V AC | NBR | 0 - 10 |
| 125808 | MVC.14.MS.230.N.BD.4 | G 1/4 | 4 | 230V AC | NBR | 0 - 5 |
| 125803 | MVC.14.MS.110.N.BD.3 | G 1/4 | 3 | 110V AC | NBR | 0 - 10 |
| 125804 | MVC.14.MS.110.N.BD.4 | G 1/4 | 4 | 110V AC | NBR | 0 - 5 |
| 125809 | MVC.14.MS.24A.N.BD.3 | G 1/4 | 3 | 24V AC | NBR | 0 - 10 |
| 125810 | MVC.14.MS.24A.N.BD.4 | G 1/4 | 4 | 24V AC | NBR | 0 - 5 |

Media-separated 3/2-way solenoid valve, normally closed, directly operated, direct current

| Art. No. | Type No. | Thread | DN | Voltage | Sealant | Operating pressure bar |
|----------|----------------------|--------|----|---------|---------|------------------------|
| 125811 | MVC.14.MS.24D.N.BD.3 | G 1/4 | 3 | 24V DC | NBR | 0 - 10 |
| 125812 | MVC.14.MS.24D.N.BD.4 | G 1/4 | 4 | 24V DC | NBR | 0 - 5 |
| 125805 | MVC.14.MS.12.N.BD.3 | G 1/4 | 3 | 12V DC | NBR | 0 - 10 |
| 125806 | MVC.14.MS.12.N.BD.4 | G 1/4 | 4 | 12V DC | NBR | 0 - 5 |

Media-separated 3/2-way solenoid valve, normally open, directly operated, alternating current

| Art. No. | Type No. | Thread | DN | Voltage | Sealant | Operating pressure bar |
|----------|----------------------|--------|----|---------|---------|------------------------|
| 129857 | MVD.14.MS.24A.N.BD.3 | G 1/4 | 3 | 24V AC | NBR | 0 - 10 |

Media-separated 3/2-way solenoid valve, normally open, directly operated, direct current

| Art. No. | Type No. | Thread | DN | Voltage | Sealant | Operating pressure bar |
|----------|----------------------|--------|----|---------|---------|------------------------|
| 129856 | MVD.14.MS.24D.N.BD.3 | G 1/4 | 3 | 24V DC | NBR | 0 - 10 |

Media-separated 3/2-way solenoid valve, flow direction optional, directly operated, alternating current

| Art. No. | Type No. | Thread | DN | Voltage | Sealant | Operating pressure bar |
|----------|----------------------|--------|----|---------|---------|------------------------|
| 125818 | MVW.14.MS.230.F.BD.2 | G 1/4 | 2 | 230V AC | FKM | 0 - 12 |
| 125819 | MVW.14.MS.230.F.BD.3 | G 1/4 | 3 | 230V AC | FKM | 0 - 8 |
| 125813 | MVW.14.MS.110.F.BD.2 | G 1/4 | 2 | 110V AC | FKM | 0 - 12 |
| 125815 | MVW.14.MS.110.F.BD.3 | G 1/4 | 3 | 110V AC | FKM | 0 - 8 |
| 125820 | MVW.14.MS.24A.F.BD.2 | G 1/4 | 2 | 24V AC | FKM | 0 - 12 |
| 125821 | MVW.14.MS.24A.F.BD.3 | G 1/4 | 3 | 24V AC | FKM | 0 - 8 |

Media-separated 3/2-way solenoid valve, flow direction optional, directly operated, direct current

| Art. No. | Type No. | Thread | DN | Voltage | Sealant | Operating pressure bar |
|----------|----------------------|--------|----|---------|---------|------------------------|
| 125822 | MVW.14.MS.24D.F.BD.2 | G 1/4 | 2 | 24V DC | FKM | 0 - 12 |
| 125823 | MVW.14.MS.24D.F.BD.3 | G 1/4 | 3 | 24V DC | FKM | 0 - 8 |
| 125816 | MVW.14.MS.12.F.BD.2 | G 1/4 | 2 | 12V DC | FKM | 0 - 12 |
| 125817 | MVW.14.MS.12.F.BD.3 | G 1/4 | 3 | 12V DC | FKM | 0 - 8 |

➔ Solenoid valves are supplied without a connector socket as standard. The connector socket must be ordered separately if required.

Characteristics valve body /electrical data

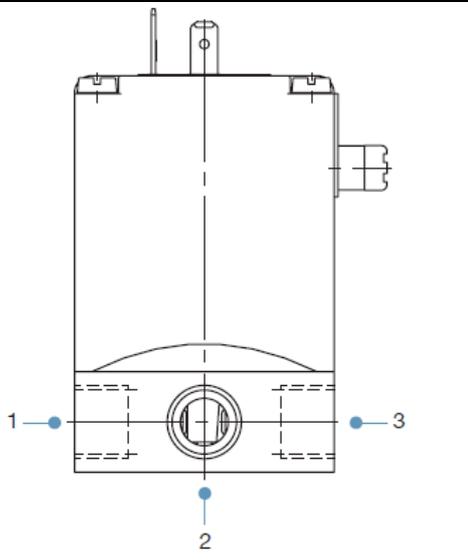
| Type | Function | DN | Flow coefficient (Kv) water* m ³ /h | Pickup ~ VA | Holding ~ VA / W | hot / cold = W | Ambient temperature °C | Surface temperature coil housing °C ** | Coil Insulation class H °C ** |
|------|----------|----|---|----------------|---------------------|-------------------|------------------------|--|-------------------------------|
| MVC | AC | 3 | 0.18 | 30 | 15 / 8 | 8 / 11 | 0 to 55 | max. 100 | max. 180 |
| | | 4 | 0.23 | | | | | | |
| | DC | 3 | 0.14 | 30 | 15 / 8 | 8 / 11 | | | |
| | | 4 | 0.17 | | | | | | |
| MVW | AC | 2 | 0.11 | 30 | 15 / 8 | 8 / 11 | | | |
| | | 3 | 0.18 | | | | | | |
| | DC | 2 | 0.08 | 30 | 15 / 8 | 8 / 11 | | | |
| | | 3 | 0.14 | | | | | | |
| MVD | AC | 3 | 0.18 | 30 | 15/8 | - | | | |
| | DC | 3 | 0.14 | - | - | 8/11 | | | |

* Measurement at + 20 °C, 1 bar pressure at the valve inlet and free outlet, a pressure difference of 0.5 bar is required to open the full cross-section.

** It must be ensured that the temperature of the coil can be dissipated to the ambient air.

All temperature specifications are designed for 100% duty cycle.

Process connections

| Circuit function | Connection 1 | Connection 2 | Connection 3 | 3 way |
|------------------|--------------|---------------------|--------------|--|
| C | P* | A** | R*** |  |
| W | NC | I _N /OUT | NO | |
| D | R | B**** | P | |

P* = Pressure side connection

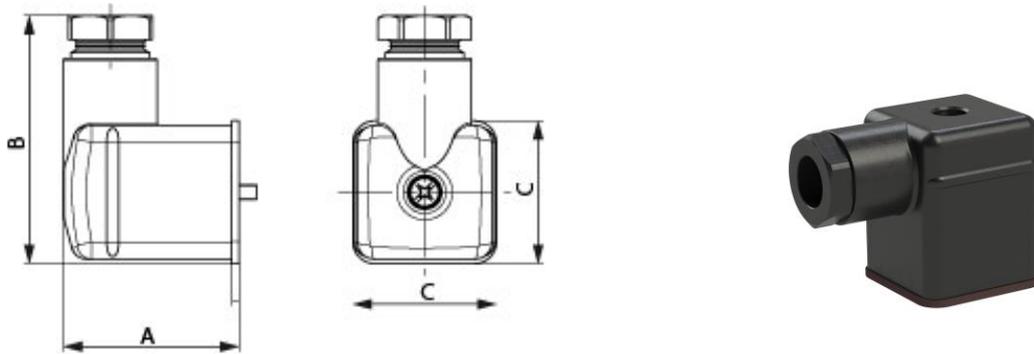
A** = Working connection to the output

R*** = Backflow

B**** = Output pressurized in rest position

Connector socket

| | |
|--------------------------------|--|
| Cover | Polyamide |
| Contact | Brass |
| Sealant | NBR |
| Cable outlet | Can be rotated through 4x90° |
| Cable gland | M16x1.5 |
| Continuous maximum temperature | -40 °C to 125 °C (connector socket) -30 °C to 90 °C (NBR sealant) |
| Electrical connection | Acc. to DIN EN 175301-803 |



Connector socket for media-separated solenoid valve

| Art. No. | Type No. | Protection IP | Voltage | Version | A mm | B mm | C mm |
|----------|----------------|---------------|-----------------|-------------------|---------|---------|---------|
| 124691 | GS.MV.0-250V | IP65/IP67 | 0-250 V AC/DC | without circuitry | 35.7 | 51.0 | 29.2 |
| 124702 | GS.MV.12-24V | IP65 | 12-24 V AC/DC | with LED | 35.7 | 51.0 | 29.2 |
| 129205 | GS.MV.LED.240V | IP65 | 200-240 V AC/DC | with LED | 35.7 | 51.0 | 29.2 |