FMV8552

2/2-WAY SOLENOID VALVE WITH FLANGES, FORCE PILOT OPERATED FOR STEAM APPLICATIONS

Type:

Errors and changes excepted. Revision: 11/2018-004

Strong Basis. Individual Solutions.

SYSTEM VALVES

FMV8552

Range of application:
- viscosity 80 mm²/s
- medium temperature 0°C up to +200°C
- ambient temperature: 0°C up to +60°C
- working pressure from 0 bar, no pressure difference required
- IP65 (with a professionally installed connector socket) according to DIN 40050 --> DIN EN 60529
- for hot water and steam

Description:
- 2/2-way valve
- piston design
- force pilot operated
- flange acc. to EN 1092-1, PN 40
- duty cycle 100% (VDE 0580)
- any installation position, bottom solenoid preferred (up to +150°C vertically to the top)
- close muting
- high flow rate

Comments:

Please note the flow direction (marked with arrow on the body) during installation. Voltage tolerance +10% / -10% at maximum pressure and standard ambient temperature.

Other voltage, coil power or sealing on request! Included is a connector socket. Further connector sockets can be found in the catalog under "spare parts and accessories". Higher protection class than IP65 with special coils and connector sockets is possible on request.

Higher working pressure up to 25 bar on request.

Flanges acc. to ANSI 150 lbs and 300 lbs are also possible.

<table>
<thead>
<tr>
<th>pos.</th>
<th>part</th>
<th>brass</th>
<th>optional material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>body</td>
<td>1.4408</td>
<td>○</td>
</tr>
<tr>
<td>2</td>
<td>cover</td>
<td>CW617N</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>valve piston including sealing sealing ring</td>
<td>PTFE</td>
<td>T</td>
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<tr>
<td>4</td>
<td>o-ring</td>
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<tr>
<td>5</td>
<td>lip seal</td>
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<tr>
<td>6</td>
<td>cylinder pin</td>
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<td></td>
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<tr>
<td>7</td>
<td>o-ring</td>
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</tbody>
</table>

wear parts:
- Pos. 3: valve piston incl. sealing
- Pos. 9: pressure spring
- Pos. 4: sealing ring
- Pos. 5: o-ring
- Pos. 6: lip seal
- Pos. 10 solenoid
- Pos. 11: tube
- Pos. 7: cylinder pin
- Pos. 12: pressure spring
- Pos. 13: plunger
- Pos. 8: o-ring

An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

options:
- function NO (normally opened valve): 1 up to 16 bar
- OF: free of oil and grease
- CV: body nickel plated chemically
- HA: manual override
- PS: position indicator

References:
For contaminated fluids insertion of a strainer is recommended

At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

Attention! The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

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SYSTEM VALVES

match code | size | nominal size [mm] | working pressure [bar] | L [mm] | H1 [mm] | H2 [mm] | B [mm] | weight [kg] | CV* [m³/h] | solenoid power
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
FMV8552-52OT150-x-x | DN15 | 8 | 0 | 16 | 16 | 130 | 142 | 48 | 44 | 3.8 | 3.8 | 33VA / 33VA | B46 | 29W | B44
FMV8552-53OT200-x-x | DN20 | 10 | 0 | 16 | 16 | 150 | 150 | 55 | 50 | 4.2 | 6.1 | 33VA / 33VA | B46 | 29W | B44
FMV8552-54OT250-x-x | DN25 | 12 | 0 | 16 | 16 | 160 | 155 | 57.5 | 62 | 4.8 | 9.5 | 33VA / 33VA | B46 | 29W | B44
FMV8552-55OT320-x-x | DN32 | 20 | 0 | 16 | 16 | 180 | 184 | 70 | 92 | 9.6 | 23 | 33VA / 33VA | B46 | 29W | B44
FMV8552-56OT400-x-x | DN40 | 25 | 0 | 16 | 16 | 200 | 189 | 75 | 92 | 10 | 25 | 33VA / 33VA | B46 | 29W | B44
FMV8552-57OT500-x-x | DN50 | 32 | 0 | 16 | 16 | 230 | 197 | 82.5 | 109 | 11.5 | 41 | 33VA / 33VA | B24 | 29W | B22

***solenoid power for AC: listed are the pick-up power and the holding power.

*CV value: The nominal flow rate CVs acc. to VDI/VDE 2173 shows the water quantity in cubic meter per hour with the valve fully opened, ∆p=1 and the water temperature between 5°C and 30°C.

Order information:

1: type: FMV8552
2: connection size: 52-57 (ANSI 82-87)
3: materials:
   • 1. digit: body material  O (stainless steel)
   • 2. digit: sealing  T (PTFE)
4. nominal size in 1/10mm (see table)

5: operation:
   • specification of the solenoid type: B46/B24 (AC) / B44/B22 (DC)
   • specification of voltage:
     0: 230V AC
     1: 24V DC
     Other voltage on request.

6: options (see ”options”)

Please ask for field specifications that are not listed in this data sheet.

Before installation please consider the installation and maintenance manual, especially the safety indications!
Heating and power of solenoid coils

Default solenoid valves are designed for continuous operation (100% ED = power-on time) under normal operating conditions. The pulling force of a solenoid coil is basically influenced by three elements:

- the self-heating of the magnet coil
- the medium temperature
- the ambient temperature

Solenoid coils are by default designed for a maximum ambient temperature of +60 °C. This specification applies for the maximum allowable operating pressure specified in the data sheet of the corresponding valve, 100% duty cycle and a medium temperature of +200 °C.

Operating temperature solenoid (DC) reduces the power consumption. For physical reasons up to approx. 30%.