Double solenoid valve DN 50 nominal diameters

DMV 50050



7.39

- Low power consumption
- · Low weight
- Compact design
- · High flow rates
- Max. operating pressure 5000 mbar (5 bar, 500 kPa)



Technical description

The DUNGS double solenoid valve DMV integrates two solenoid valves in one compact fitting.

- Automatic shut-off valves as per DIN EN 161 Class A Group 2.
- Two A valves in one housing
- Double seat valves
- High flow rates
- Max. operating pressure up to 5.0 bar (500 kPa)
- Fast closing
- Fast opening
- DC solenoid
- Low electric power consumption through power switching
- Compact, light-weight

Application

Double solenoid valves are used where two single valves were mounted previously. In connection with DUNGS gas regulators and additional components, a wide variety of regulating tasks can be performed. Suitable for gases of families 1, 2, 3 and other neutral gaseous media.

Approvals

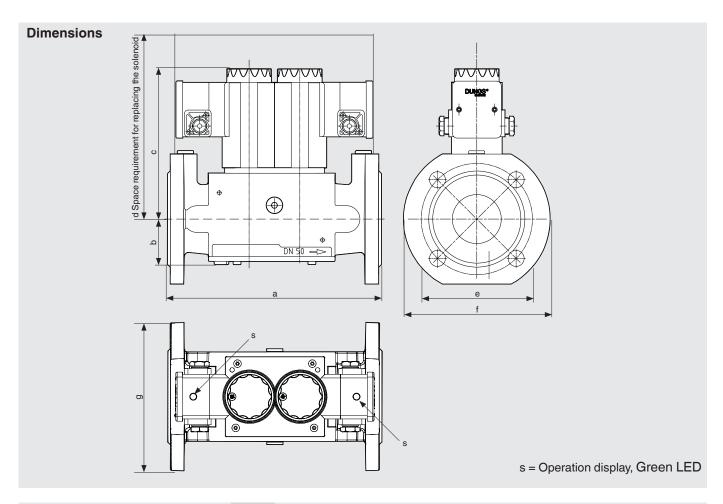
- EC type testing certificate as per:
- EC-Gas Appliances Regulation
- EC-Pressure Equipment Directive

Approvals in other important gas consuming countries.

DMV-50050

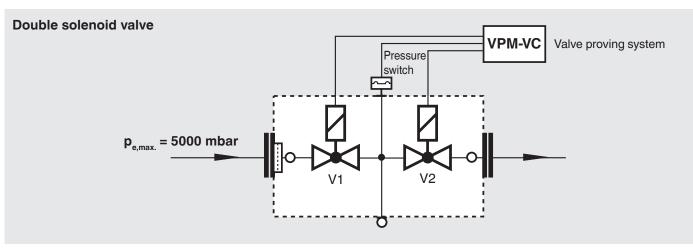
Two single-stage solenoid valves normally closed, fast opening, fast closing. Electric activation: separately opening

| Nominal diameters | DN 50 | | | | | | | | | | |
|---|--|---|------------------------------|---------------------------------------|------------------------|--|--|--|--|--|--|
| Flange | Connection flange as per DIN 2501 Part 1, to fit preweld flanges as per DIN 2633 | | | | | | | | | | |
| | (PN 16) DN 50, ISO 7005 - 1 (PN 16), ISO 7005 - 2 (PN 16) | | | | | | | | | | |
| | Construction length as per DIN 3202 Part 1, row F1 for DN 50 | | | | | | | | | | |
| Max. operating pressure | 5000 mbar (500 kPa) | | | | | | | | | | |
| | max. pressure difference $\Delta p = 500$ mbar | | | | | | | | | | |
| Solenoid valve V1 | max. flow velocity = 50 m/s | | | | | | | | | | |
| | Automatic shut-off valve as per EN 161: Class A, Group 2, Version: double-seat | | | | | | | | | | |
| Solenoid valve V2 | | Automatic shut-off valve as per EN 161: Class A, Group 2, | | | | | | | | | |
| | Version: double-seat | | | | | | | | | | |
| Closing time | <1s | | | | | | | | | | |
| Opening time | <1s | | | | | | | | | | |
| Materials of gas conveying parts | Housing: aluminium, steel, no non-ferrous metals | | | | | | | | | | |
| Seals at valve seat:NBR basis, suitable for gases as per G260/I | | | | | | | | | | | |
| Ambient temperature | -15 °C bis +60 °C | | | | | | | | | | |
| Installation position | Solenoid verti | Solenoid vertically upright to lying horizontally | | | | | | | | | |
| Dirt trap | Sieve installed. To protect the complete gas train we recommend you to install an upstream gas filter | | | | | | | | | | |
| Measuring gas connection | G 1/4 DIN ISO 228 centrally upstream of V1 and downstream of V2 G 1/4 DIN ISO 228 between V1 and V2 | | | | | | | | | | |
| Voltage/frequency | | 50 - 60 Hz, 230 V AC, -15% +10%, further voltages on request Other preferred voltages: 110 V - 120 V AC, 24 V DC | | | | | | | | | |
| Rating / power consumption | Version | Starting power approx. [W] | Holding power approx. [W] | Break-away starting current [A] | Holding current [A] | | | | | | |
| at 230 V AC, +20 °C All indications are effective values | DMV 50050 | 2 x 80 | 2 x 15 | 2 x 0.8 | 2 x 0.5 | | | | | | |
| at 24 V DC, +20 °C | DMV 50050 | 2 x 80 | 2 x 15 | 2 x 9.5 | 2 x 3.3 | | | | | | |
| Power supply display | Green LED | | | | | | | | | | |
| Degree of protection / switch-on duration | IP 54 as per IEC 529 (EN 60529) | | | | | | | | | | |
| Switching cycles | 60 per hour (30 s on/off) | | | | | | | | | | |
| Electrical connection | At screw terminals via PG 11 Plug connection as per DIN 175 0301-803 can be retrofitted | | | | | | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | |



| Version | Voltage | Order No. | p _{max.} [bar] | Connec- tion DN | а | b | Dime c | nsior d | ns [m e | m] f | Sole- noid No. | Swit- ching rate/h | Weig [kg] | ht |
|----------------------|---------|--------------------|----------------------------|-----------------------|------------|---|-----------|------------|------------|------------|----------------------|--------------------------|--------------|------------|
| DMV50050 DMV50050 | | 254 849 251 762 | 5.0 5.0 | DN 50 DN 50 | 240 240 | | | 270 270 | 102 102 | 116 165 | 152/P 152/P | | | 8.6 8.6 |

Important: Always order, plug connection and system accessories separately.



Accessories

The double solenoid valve is prepared for mounting of DUNGS accessories and additional equipment. Information on accessories

VPM-VC valve proving system Datasheet 8.22

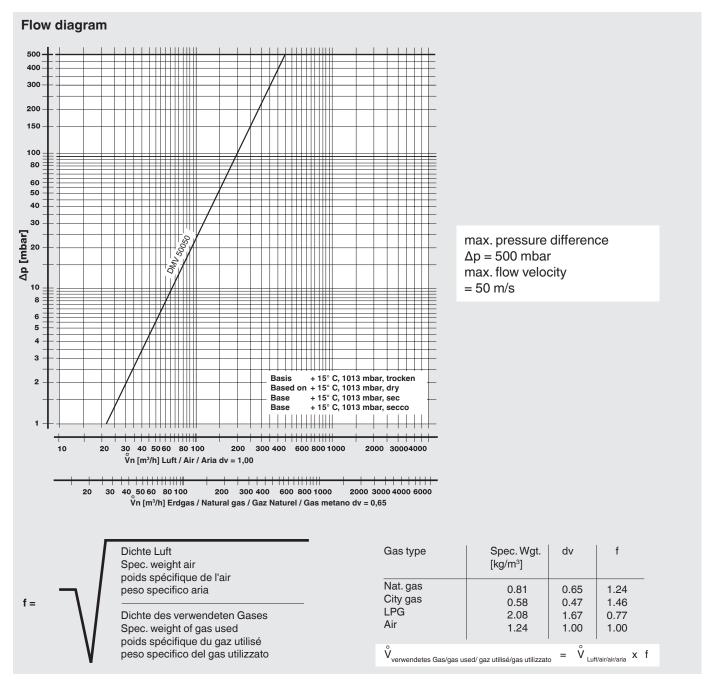
Compact pressure switch for multiple actuators GW...A4 HP Datasheet 5.04 If a system accessory is added, it may not be possible to mount further devices.

When selecting the system components, you must observe the max. operating pressure!

Double solenoid valve DN 50 nominal diameters

DMV 50050





We reserve the right to make any changes in the interest of technical progress.

Head Offices and Factory Karl Dungs GmbH & Co. KG Karl-Dungs-Platz 1 D-73660 Urbach, Germany Telephone +49 7181-804-0 Fax +49 7181-804-166 Postal address Karl Dungs GmbH & Co. KG Postfach 12 29 D-73602 Schorndorf, Germany e-mail info@dungs.com Internet www.dungs.com