

2/2 Way Solenoid Valve Type 150

direct acting



Function

- direct acting
- normally closed (NC)
- normally open (NO)

Mode of operation

- function NC: In a deenergized state, the valve is closed by spring force. When energized (magnetic force), the plunger moves upwards, raising the diaphragm connected to it and allowing the medium to flow.
- function NO: In a deenergized state, the valve is opened by spring force. When energized (magnetic force), the plunger lowers, closing the valve.

Design

- seat valve with PTFE bellow

Type of fluids

- Technically clean neutral or aggressive fluids or gaseous media provided that the components getting in contact with the medium are resistant at the operating temperature according to the ASV resistance guide.

Nominal diameter

- DN 10 - DN 20

Pressure range

- 0 - max. 2,0 bar (see table)

Viscosity

- up to approx. 37 mm²/s (cSt)

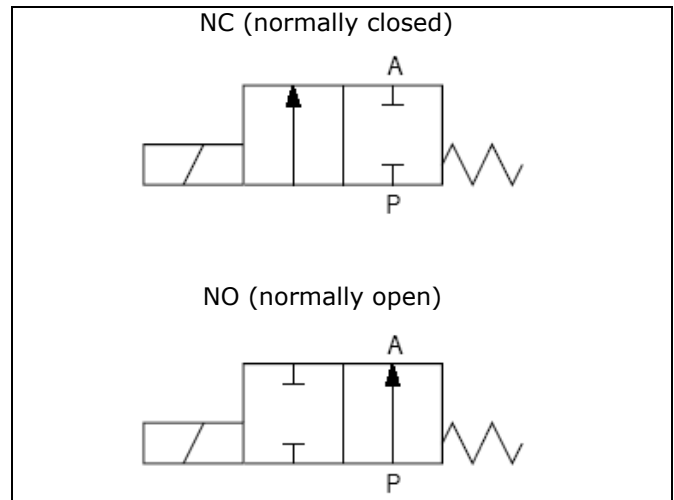
Body material

- PVC-U
- PP
- PTFE

Seals

- EPDM
- FPM

Wiring scheme



Bellow

- PTFE

Ambient temperature

- max. +50°C

Media temperature

- see pressure/temperature diagram

Connections

- PVC-U: spigot end for solvent welding
- PP: spigot end for fusion welding
- PTFE: female threaded socket

Electrical part

Plug socket

- acc. to DIN EN 175301-308

Nominal voltage

- 230 V 50 Hz
- 24 V DC
- special voltages

Voltage tolerance

- ±10% acc. to VDE 0580

Power consumption

- 8 watt

Duty factor

- 100% ED

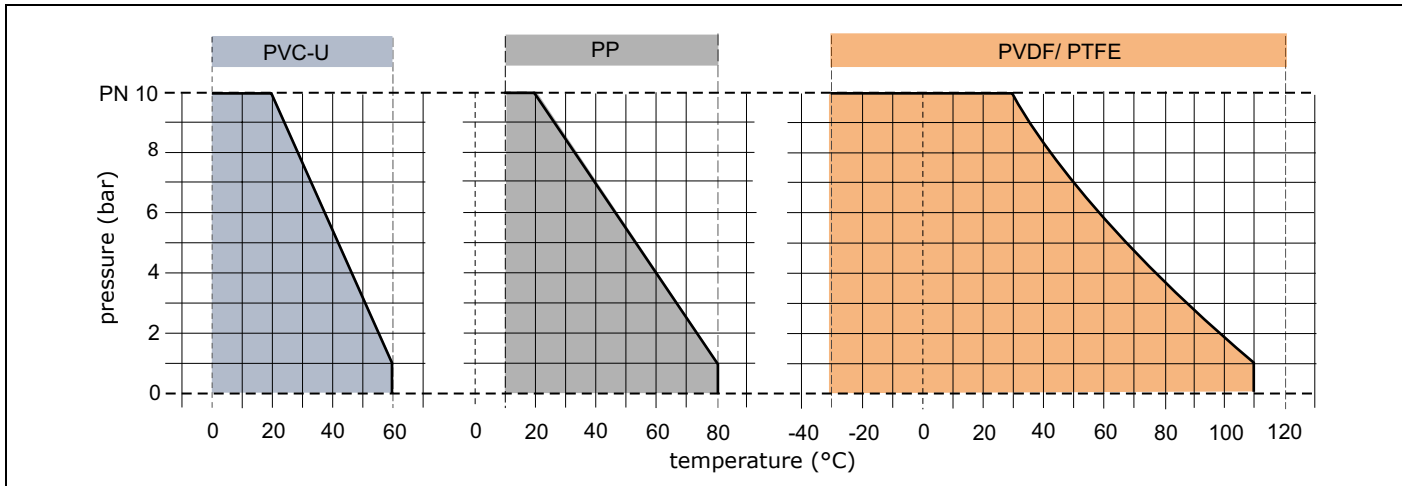
Protection

- IP 65 with plug socket mounted

Mounting

- coil preferably in upright position

Pressure/temperature diagram



Pressure/temperature diagram

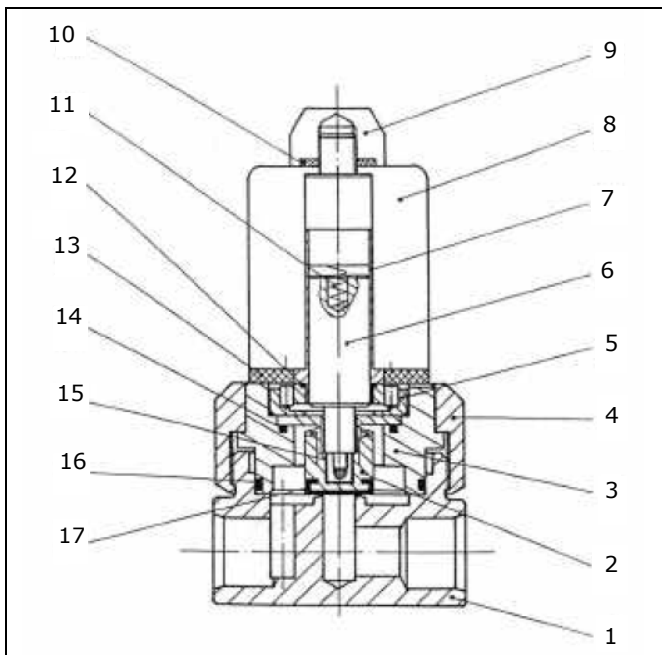
The pressure/temperature limits are applicable for the stated nominal pressures and a computed operating life factor of 25 years.

The values are a guide for harmless media (DIN 2403), to which the material of the valve is resistant. For other media see the ASV resistance guide.

The durability of wear and tear parts depends on the operating conditions of the application.

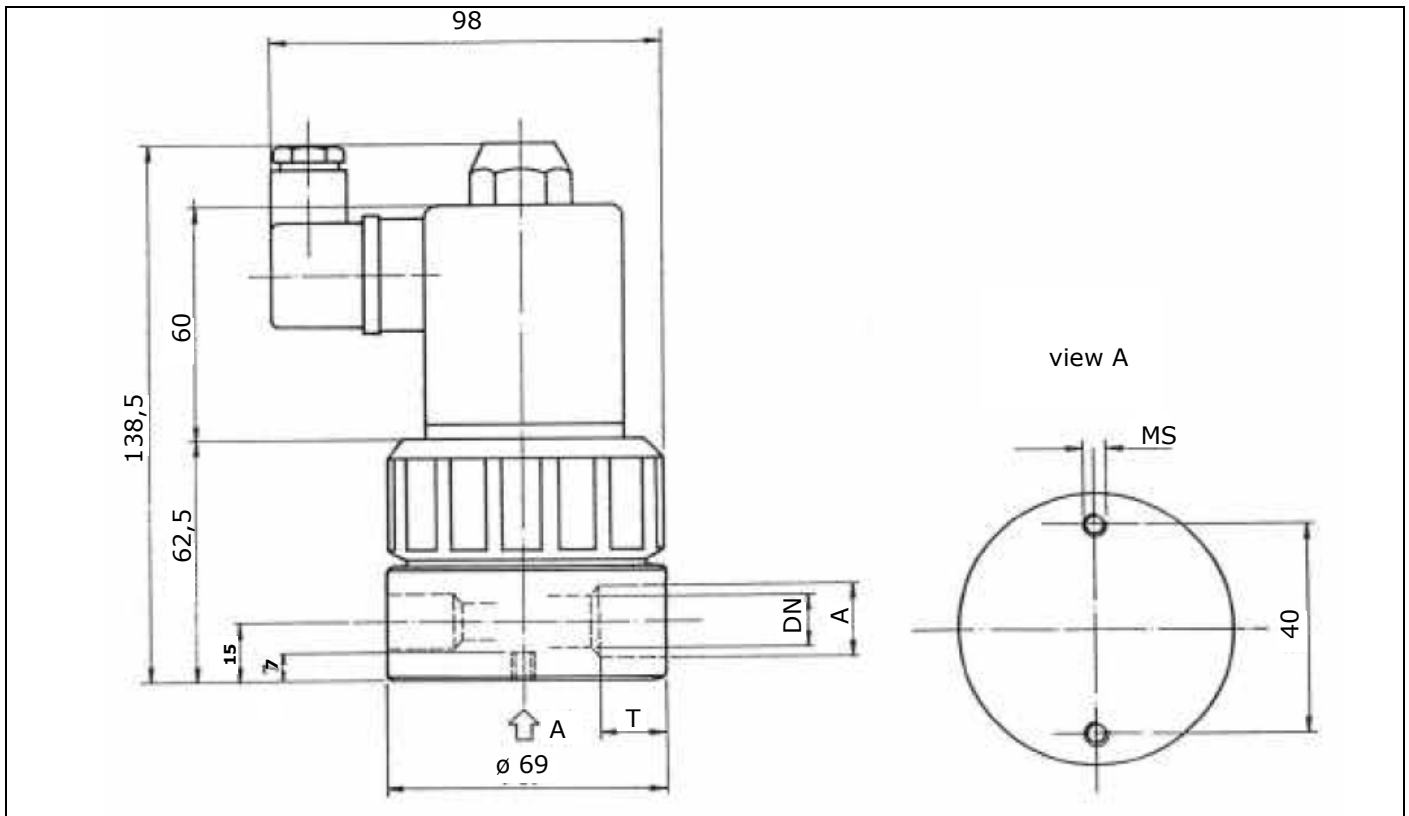
For temperatures below 0°C (PP < +10°C) please specify the precise operating conditions of the application.

Sectional drawing and parts list



| item | designation |
|------|--------------------|
| 1 | valve body |
| 2 | PTFE bellow |
| 3 | intermediate body |
| 4 | union nut |
| 5 | intermediate ring |
| 6 | plunger |
| 7 | plunger guide tube |
| 8 | coil |
| 9 | acorn nut |
| 10 | gasket |
| 11 | spring |
| 12 | O-ring |
| 13 | gasket |
| 14 | O-ring |
| 15 | threaded ring |
| 16 | O-ring |
| 17 | sealing cover |

Dimensional drawing



Connection

| size DN (mm) | PVC-U, PP | | PTFE | |
|-----------------|-----------|--------|----------|--------|
| | A (mm) | T (mm) | A (inch) | T (mm) |
| 10 | 16 | 14 | G 3/8 | 13 |
| 15 | 20 | 13 | G 1/2 | 13 |
| 20 | 25 | 13 | - | - |

Ident number

PVC-U

| voltage | | | | 230 V AC | | 24 V DC | |
|---------|-------------------|----------------|-------------------------------|----------|-------|---------|-------|
| DN (mm) | connection d (mm) | pressure (bar) | k _v -value (l/min) | PVC | | PVC | |
| | | | | EPDM | FPM | EPDM | FPM |
| 10 | 16 | 0 - 2,0 | 33 | 69224 | 69226 | 69225 | 69227 |
| 15 | 20 | 0 - 1,0 | 45 | 69232 | 69234 | 69233 | 69235 |
| 20 | 25 | 0 - 0,5 | 53 | 69240 | 69242 | 69241 | 69243 |

PP

| voltage | | | | 230 V AC | | 24 V DC | |
|---------|-------------------|----------------|-------------------------------|----------|-------|---------|--------|
| DN (mm) | connection d (mm) | pressure (bar) | k _v -value (l/min) | PP | | PP | |
| | | | | EPDM | FPM | EPDM | FPM |
| 10 | 16 | 0 - 2,0 | 33 | 46380 | 43486 | 43092 | 113252 |
| 15 | 20 | 0 - 1,0 | 45 | 43972 | 43094 | 43093 | 46381 |
| 20 | 25 | 0 - 0,5 | 53 | 43920 | 43195 | 113251 | 113253 |

PTFE

| voltage | | | | 230 V AC | | 24 V DC | |
|---------|---------------------|----------------|-------------------------------|----------|-------|---------|-------|
| DN (mm) | connection G (inch) | pressure (bar) | k _v -value (l/min) | PTFE | | PTFE | |
| | | | | EPDM | FPM | EPDM | FPM |
| 10 | 3/8 | 0 - 2,0 | 33 | 69228 | 69230 | 69229 | 69231 |
| 15 | 1/2 | 0 - 1,0 | 45 | 69236 | 69238 | 69237 | 69239 |

Subject to technical modifications

