

SOLENOID VALVE TYPE 150

Nominal size DN 10–20

Pressure range 0.0–2.0 bar

Features

- direct acting thermoplastic valve
- fast switching
- core tube sealed by PTFE bellows
- independent of compressed air supply
- wide area of application

Additional options on demand

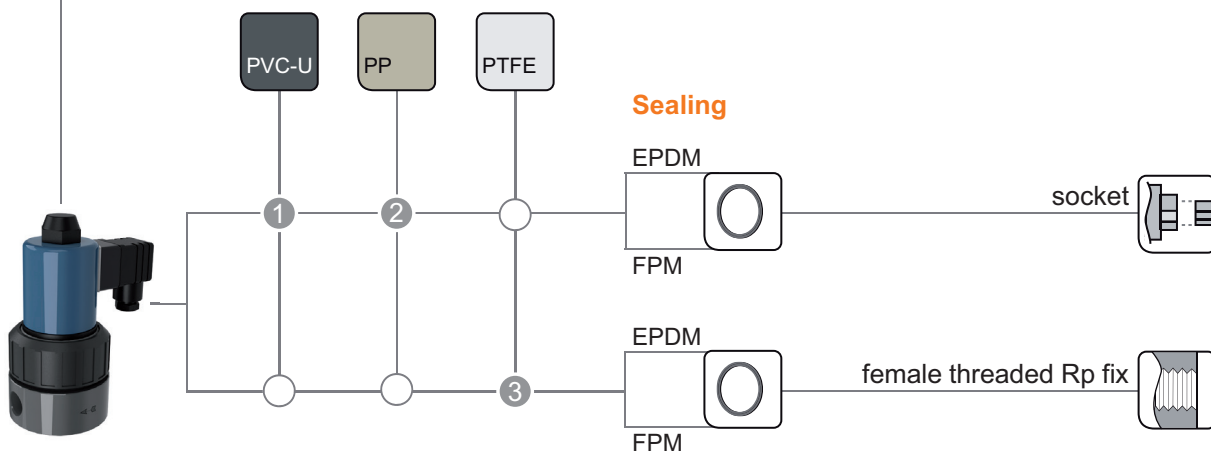
- Atex
- special voltages

www.asv-stuebbe.com/produkte/armaturen



Pictogram Solenoid Valve Type 150

● **Actuator:**
... NC | NO
... 24 V DC | 230 V, 50 Hz



Pressure setting range:

DN 10 0 - 2 bar
DN 15 0 - 1 bar
DN 20 0 – 0,5 bar

● available
○ not available

Basic normal size:

DN 8	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300	DN 350	DN 400
------	--------------	-------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------

Connectionmaterial (process connection)

- ① PVC-U socket **DIN**
 - ② PP socket **DIN**
 - ③ PTFE female thread Rp fix *
- * only available DN 10, DN 15

Solenoid Valve Type 150

Use

- chemical plant engineering
- industrial plant engineering
- Water treatment

Application

- Quick-closing, electrically actuated shut-off valve for small flow volumes
- Suitable for high switching frequencies
- for low operating pressures between 0–2 bar

Functions

- controlled directly, closed when de-energized (NC)
- controlled directly, open when de-energized (NO)
- A solenoid system opens and closes the valve directly. No operating or differential pressure is required. The valve is active from 0 bar.

Design

- seat valve with PTFE bellows

Flow medium

- Technically pure, neutral and aggressive fluids, provided that the selected valve materials are resistant at the operating temperature according to the ASV resistance guide.
- Not suitable for use in medium types containing solids.

ASV-Stübbe resistance guide

- www.asv-stuebbe.de/pdf_resistance/300051.pdf

Medium temperature

- PVC-U, PTFE: 0–50 °C
- PP: 10–50 °C

Operating pressure

- PN 0.0–2.0 bar
- When connected to direct current, the operating pressure is reduced by approx. 20%.
- See graphics „Pressure/temperature diagram“

Viscosity

- up to approx. 37 mm² /s (cSt)

Housing

- PVC-U, PP, PTFE

Bellows

- PTFE

Sealing element

- FPM, EPDM

Ambient temperature

- 0–50 °C (max.)

Connection

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

Connector plug

- according to DIN EN 175301-803, shape A
- for AC with integrated rectifier

Voltage

- 24 V DC
- 230 V, 50 Hz
- special voltages on request

Voltage tolerance

- +/-10% according to VDE 0580

Coil capacity

- 8 Watt

Power consumption

- 230 V, 50 Hz: 8.5 W
- 24 V DC: 7.5 W

Duty cycle

- 100 %

Type of protection

- IP 65 with mounted connector plug
- ATEX II 2 G Ex m II T4 on request

Mounting position

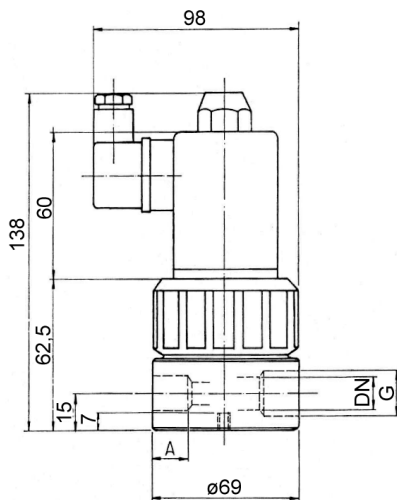
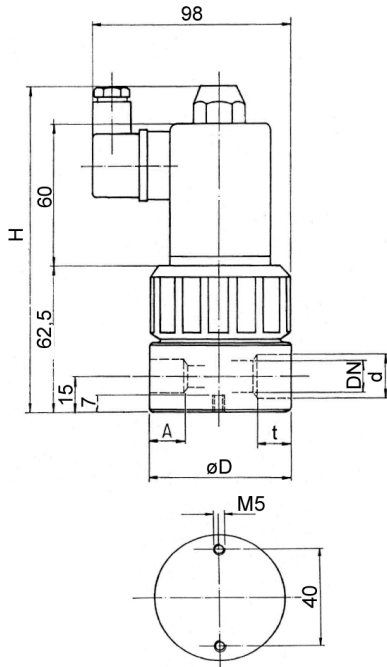
- magnet preferably at the top

Options

- Special voltages

Solenoid Valve Type 150

Connection socket

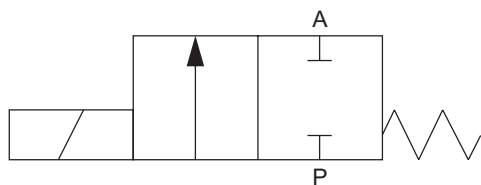


d (mm)		16	16	20	20	25
DN (mm)		10	10	15	15	20
Pressure (bar)		0 - 2	0 - 2	0 - 1	0 - 1	0 - 0.5
A	PVC-U / PP	14	14	16	16	13
	PTFE	13	13	13	13	-
d		-	16.0	-	20.0	25.0
D		69.0	69.0	69.0	69.0	69.0
G*		3/8	-	1/2	-	-
H		138	138	138	138	138

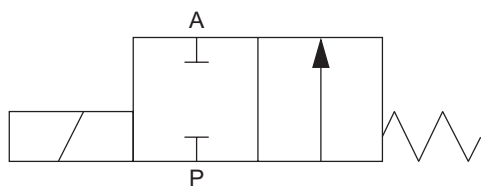
all dimensions in mm / * dimensions in inch

Solenoid Valve Type 150

NC circuit diagram (closed when de-energized)



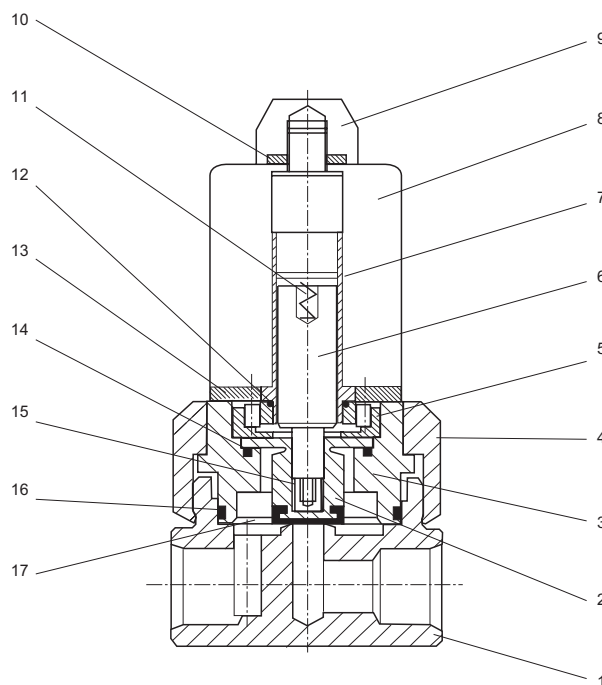
NO circuit diagram (open when de-energized)



kv value

DN (mm)	10	15	20
kv (l/mm)	20.7	29.7	53.0

Components



Position	Quantity	Designation
1	1	valve body
2	1	Bellows
3	1	Intermediate element
4	1	Union nut
5	1	Intermediate ring
6	1	Plunger
7	1	Plunger guide tube
8	1	Magnet coil
9	1	Cap nut
10	1	Flat sealing ring
11	1	Pressure spring
12	1	O-ring
13	1	Flat sealing ring
14	1	O-ring
15	1	Threaded bush
16	1	O-ring
17	2	Seal bonnet