

2/2 Way Solenoid Valve Type 104

direct acting



Function

- direct acting
- normally closed (NC)

Mode of operation

- 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.

Design

- seat valve with isolating diaphragm

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 1,0 - DN 2,5

Pressure range

- 0 - max. 6 bar (see table)

Viscosity

- up to approx. 37 mm²/s (cSt)

Body material

- PVC-U
- PTFE

Seals

- EPDM
- FPM

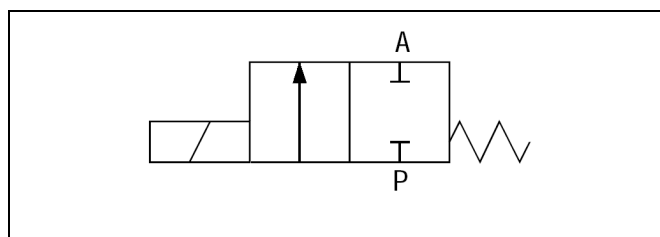
Ambient temperature

- max. + 50°C

Media temperature

- see pressure/temperature diagram

Wiring scheme



Connections

- PVC-U: female threaded socket G 1/8"
- PTFE: female threaded socket G 1/8"

Weight

- 130 g

Electrical part

Plug socket

- industry standard

Nominal voltage

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

Voltage tolerance

- +/-10% acc. to VDE 0580

Power consumption

- 6 watt

Duty factor

- 100% ED

Switching times

- opening: 40 - 50 ms
- closing: 40 - 50 ms

Protection

- IP 65 with plug socket mounted
- EEXM II T4 execution on request!

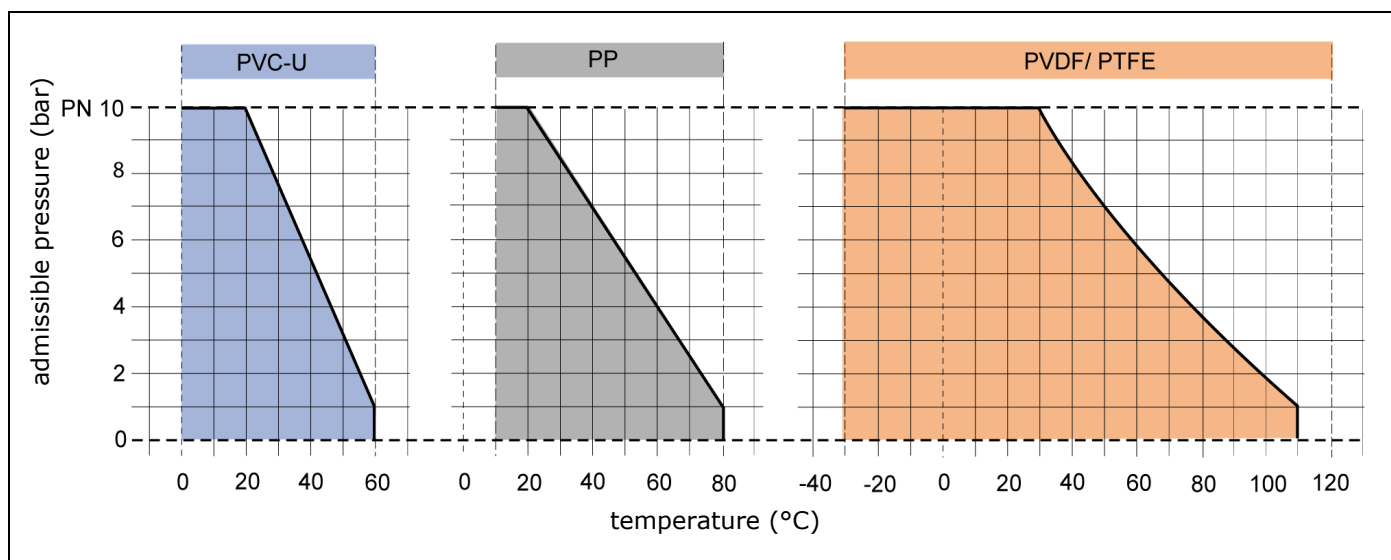
NOTE

For AC connection, the plug socket is equipped with integrated rectifier as standard. ✓

Mounting

Coil preferably in upright position, arrow always in direction of flow.

Pressure/temperature diagram



Pressure/temperature diagram

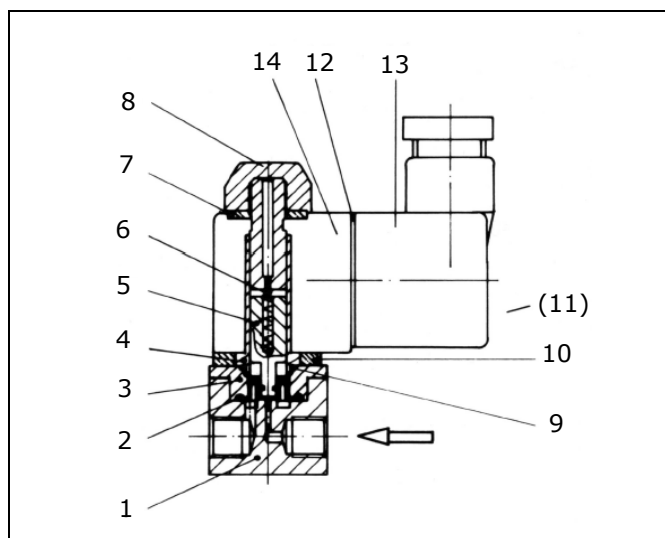
The pressure/temperature limits are applicable for the stated nominal pressures and a computed operating life factor of 25 years.

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.

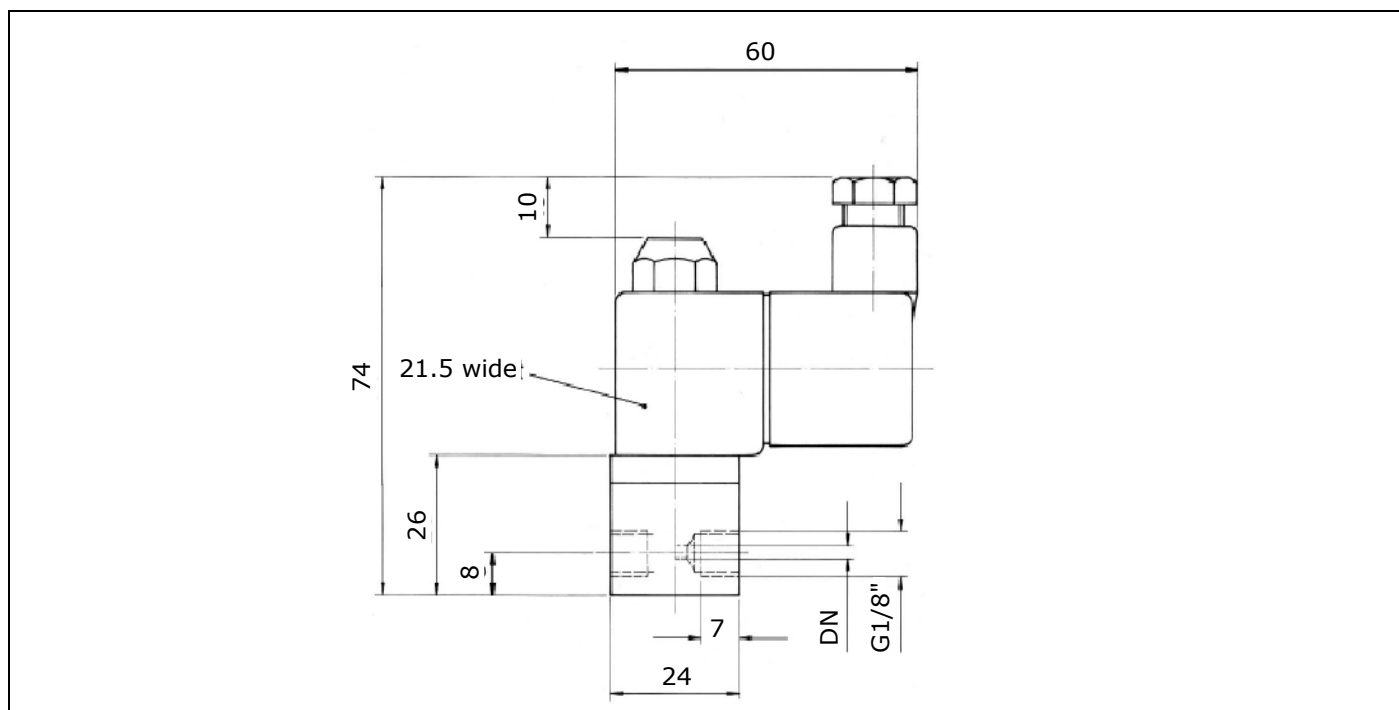
For temperatures below 0°C (PP < +10°C) please specify the precise operating conditions of the application.

Sectional drawing and parts list



item	designation
1	valve body
2	diaphragm
3	flange
4	plunger guide tube
5	plunger
6	spring
7	gasket
8	acorn nut
9	O-ring
10	gasket
11	screws
12	gasket
13	plug socket
14	coil

Dimensional drawing



Ident number

Body PVC-U

voltage				230 V AC		24 V DC	
DN	connection	pressure	k _v -value	PVC-U		PVC-U	
(mm)	G (inch)	(bar)	(l/min)	EPDM	FPM	EPDM	FPM
1,0	G 1/8	0 - 6	0,5	69112	69114	69113	69115
1,5	G 1/8	0 - 4	1,2	69120	69122	69121	69123
2,0	G 1/8	0 - 2	2,1	69128	69130	69129	69131
2,5	G 1/8	0 - 1	2,8	69136	69138	69137	69139

Body PTFE

voltage				230 V AC		24 V DC	
DN	connection	pressure	k _v -value	PTFE		PTFE	
(mm)	G (inch)	(bar)	(l/min)	EPDM	FPM	EPDM	FPM
1,0	G 1/8	0 - 6	0,5	69116	69118	69117	69119
1,5	G 1/8	0 - 4	1,2	69124	69126	69125	69127
2,0	G 1/8	0 - 2	2,1	69132	69134	69133	69135
2,5	G 1/8	0 - 1	2,8	69140	69142	69141	69143

Subject to technical modifications



Notizen / notes

Subject to technical modifications