



2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Force-pilot operated piston valve
No differential pressure is necessary for operation.
In standard (NC) the valve closes with spring power.

Solenoid valve for extended temperature range

TECHNICAL SPECIFICATIONS

Type of control	Force-pilot operated, no pressure difference necessary
Design	Piston design
Connection	Sleeve connection G1/4 - G2 DIN ISO 228/1 (BSP) Further connections like NPT on request
Installation	Actuator downwards
Pressure	0 - 40 bar (see table on page 2)
Medium	Clean, neutral gaseous and liquid media
Max. viscosity	22 mm²/s
Temperature range	Medium: -40 °C / +300 °C Environment: -40 °C / +50 °C Taking into account other influencing parameters
Body material	Brass 2.0402 Stainless steel 1.4571
Metallic inner parts	Brass and st. steel
Sealing	Metallic
Supply voltage	AC~ 24V, 110V, 230V via external rectifier (included in delivery) DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	T322 = 21 Watt T242 = 26 Watt T272 = 60 Watt T352 = 80 Watt
Protection class	IP65 according to DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	terminal box

VALVE FEATURES

- For media temperatures up to +300 °C
- No pressure difference is required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC – non energized closed

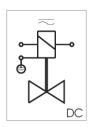
A

NO – non-energized open

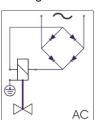


CONNECTION DIAGRAM

For AC/DC coils



For DC coils w/ integr. rectifier



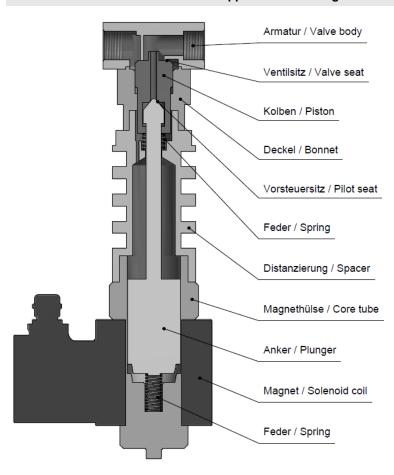
CERTIFICATES



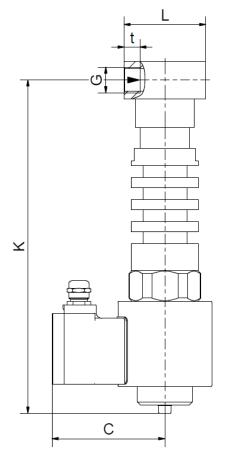
TECHNICAL FEATURES

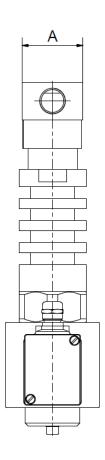
					max. press	ure for coils	
G	Seat Ø mm	Kv-value m³/h	Standard type	T322-DT	T242-DT	T272-DT	T352-DT
1/4	13	1,8	2/164-2100-	0-4	0-25	0-40	-
3/8	13	4,0	2/164-2200-	0-4	0-25	0-40	-
1/2	13	4,5	2/164-2300-	0-4	0-25	0-40	-
3/4	25	11,5	2/164-2400-	-	0-16	0-40	-
1	25	13,0	2/164-2500-	-	0-16	0-40	-
1 1/4	40	29,0	2/164-2600-	-	-	0-25	0-40
1 1/2	40	33,0	2/164-2700-	-	-	0-25	0-40
2	50	49,0	2/164-2800-	-	-	0-25	0-40

The flow rate mentioned in the table applies to the strongest coil.



DIMENSIONS





Coil	T322	T2	42		T272	T352		
Туре	2/164-21 - 2/164-23	2/164-23	2/164-24 - 2/164-25	2/164-24 - 2/164-25	2/164-26 - 2/164-27	2/164-28	2/164-26 - 2/164-27	2/164-28
G	1/4-1/2	1/2	3/4-1	3/4-1	1 1/4-1 1/2	2	1 1/4-1 1/2	2
Α	48	48	70	70	98	112	98	112
С	84	93	93	107	107	107	127	127
K	250	276	310	330	371	390	410	428
L	67	67	96	95	140	168	140	168
t	12	13	16	16	22	22	22	22
kg	3,6	4,7	7,6	12,2	13,7	15,2	18,0	19,3

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- For information on the heating and performance of solenoid coils, refer to the corresponding "Coils" data sheet.
- Detailed production-specific drawings and other technical information will be made available when an order is placed.

R

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since, in addition to high temperatures, high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

ORDERING CODE

Type		Cor	nect.		Body		Sealing		Coil			Option
2/164	-	2	2 3	-	1	0	0 0	- T	2 4	2	-	DT
		21	G 1/4		08	St.ste	el 1.4581	32	21 W	2	Stanc	lard IP65
		22	G 3/8		10	Brass	2.0401	24	26 W			
		23	G 1/2					27	60 W		DT	+300 °C
		24	G 3/4			00	metallic	35	80 W		DH	normally open
		25	G 1									
		26	G 5/4									
		27	G 6/4									
		28	G 2									

The GSR logo is a registered trademark of GSR Ventiltechnik GmbH & Co. KG

Note: All texts and images are the property of GSR Ventiltechnik GmbH & Co. KG and must not be replicated or modified, not even in part, without written approval Original products may differ from the product images shown, due to different materials and the like Subject to error and changes

02.23 MK-MG V1