



2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Pilot operated piston valve

The mentioned minimum pressure difference between inlet and outlet is necessary for proper operation.

In standard (NC) the valve closes with spring power.

■ Solenoid valve for extended temperature range

## TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, differential pressure necessary
Design	Piston design
Connection	Sleeve connection G1/4 - G2 DIN ISO 228/1 (BSP) <small>Further connections like NPT on request</small>
Installation	Preferable with actuator upright
Pressure	0,5 - 40 bar (see table on page 2)
Medium	Clean, neutral gaseous and liquid media
Max. viscosity	22 mm <sup>2</sup> /s
Temperature range	Medium: -20 °C / +180 °C Environment: -20 °C / +50 °C <small>Taking into account other influencing parameters</small>
Body material	Brass 2.0402 Stainless steel 1.4581
Metallic inner parts	Brass and st. steel
Sealing	PTFE
Supply voltage	AC~ 230V DC= 24V
Voltage tolerance	-10% / +10%
Power consumption	D182 = 6,8 Watt D012 = 18 Watt
Type of control	IP65 according to DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	Device plug DIN 43650

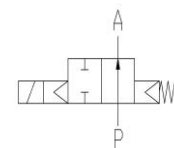
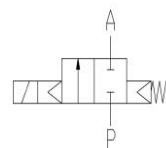
## VALVE FEATURES

- For media temperatures up to +180 °C
- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

## FUNCTION

NC – non energized closed

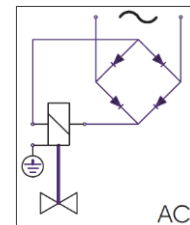
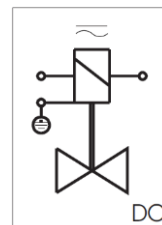
NO – non-energized open



## CONNECTION DIAGRAM

For AC/DC coils

For DC coils  
w/ integr. rectifier



## CERTIFICATES

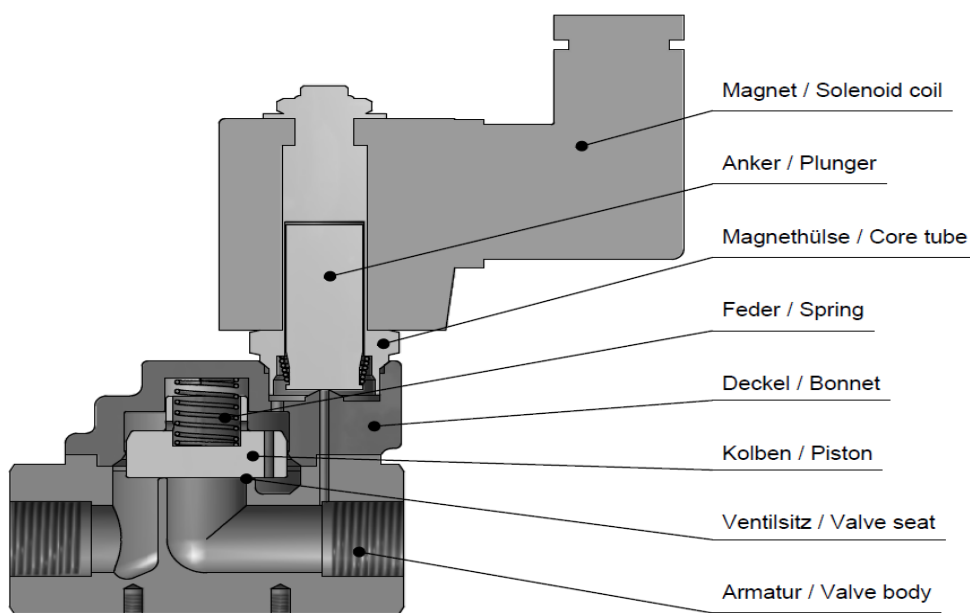


# TECHNICAL FEATURES

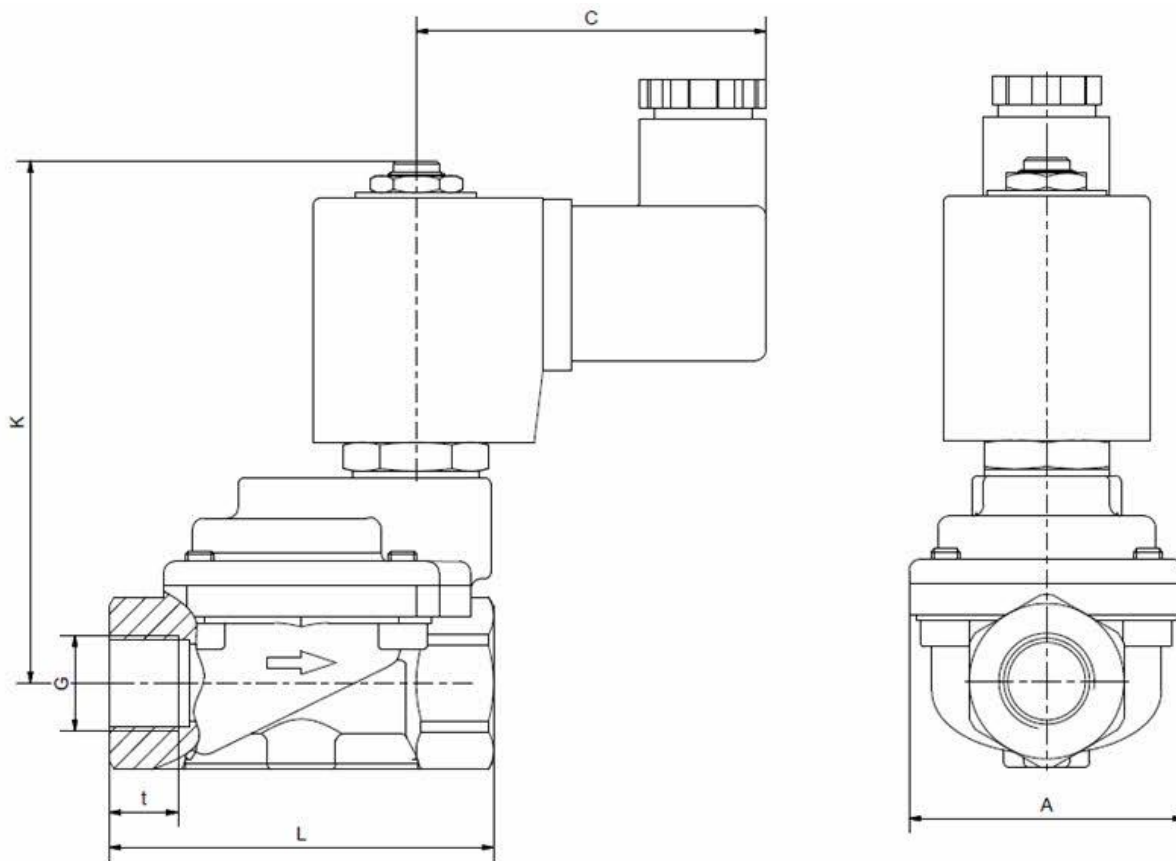
G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure for coils <b>NC</b>	
				D182	D012
1/4	13,5	1,8	.5121/.../....-TH	0,5-16	0,5-40
3/8	13,5	4,0	.5122/.../....-TH	0,5-16	0,5-40
1/2	13,5	4,5	.5123/.../....-TH	0,5-16	0,5-40
3/4	27,5	11,5	.5124/.../....-TH	0,5-16	0,5-40
1	27,5	13,0	.5125/.../....-TH	0,5-16	0,5-40
1 1/4	40	29,0	.5126/.../....-TH	-	0,5-30
1 1/2	40	33,0	.5127/.../....-TH	-	0,5-30
2	50	49,0	.5128/.../....-TH	-	0,5-30

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

G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure for coils <b>NO</b>	
				D182	D012
1/4	13,5	1,8	.5121/.../....-TH	-	0,5-20
3/8	13,5	4,0	.5122/.../....-TH	-	0,5-20
1/2	13,5	4,5	.5123/.../....-TH	-	0,5-20
3/4	27,5	11,5	.5124/.../....-TH	-	0,5-20
1	27,5	13,0	.5125/.../....-TH	-	0,5-20
1 1/4	40	29,0	.5126/.../....-TH	-	0,5-12
1 1/2	40	33,0	.5127/.../....-TH	-	0,5-12
2	50	49,0	.5128/.../....-TH	-	0,5-12



# DIMENSIONS



Coil	D182				
Type	5121	5122	5123	5124	5125
G	1/4	3/8	1/2	3/4	1
A	48	48	48	70	70
C	51	51	51	51	51
K	75	75	75	91	91
L	67	67	67	96	96
t	12	12	12	16	16
kg	0,9	0,85	0,8	1,8	1,65

Coil	D012							
Type	5121	5122	5123	5124	5125	5126	5127	5128
G	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	48	48	48	70	70	96	96	112
C	61	61	61	61	61	61	61	61
K	90	90	90	106	106	128	128	140
L	67	67	67	96	96	140	140	168
t	12	12	12	16	16	22	22	22
kg	0,9	0,85	0,8	1,8	1,65	3,8	3,5	5,2



## 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.**

## 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	Connection		Body	Sealing		Coil		Option
<b>. 51</b>	<b>2 3</b>	<b>/</b>	<b>1 0</b>	<b>0 4</b>	<b>/ D</b>	<b>1 8</b>	<b>2</b>	<b>- T H</b>

21	G 1/4
22	G 3/8
23	G 1/2
24	G 3/4
25	G 1
26	G 5/4
27	G 6/4
28	G 2

08	St.steel 1.4581
10	Brass 2.0402
04	PTFE

18	10,5 VA / 6,8 W	2	Standard IP65
01	24 VA / 18,5 W		

TH	+180 °C
NW	normally open