

3/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Direct operated valve.

No differential pressure is necessary for operation. When energized, the valve seat is opened directly.

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

■ Solenoid valve for gaseous and liquid media

TECHNICAL SPECIFICATIONS

Type of control	Direct operated valve, no pressure difference required
Design	Piston design
Connection	Sleeve connection G1/8 - G1/2 DIN ISO 228/1 (BSP) <small>Further connections like NPT on request</small>
Installation	Actuator upright or lateral
Pressure	0 - 90 bar (see table on page 2)
Medium	Clean, neutral gaseous and liquid media
Max. viscosity	22 mm ² /s
Temperature range	Medium: -10 °C / +80 °C Environment: -10 °C / +50 °C <small>Taking into account other influencing parameters</small>
Body material	Brass 2.0401 / 2.0402 Stainless steel 1.4305 Stainless steel 1.4571
Metallic inner parts	Brass and st. steel
Sealing	FKM, EPDM, PTFE
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V <small>Other supply voltages on request</small>
Voltage tolerance	-10% / +10%
Power consumption	.182 = 6,8 Watt .178 = 5,2 Watt ⚡ .032 = 11 Watt .148 = 10 Watt ⚡ .012 = 18,5 Watt
Protection class	IP65 according to DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	Device plug DIN 43650
Ex-proof	acc. to 2014/34/EU (ATEX)

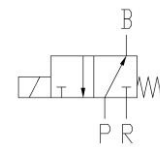
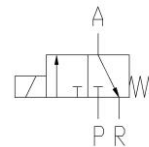
VALVE FEATURES

- No pressure difference required
- High life time
- Simple compact valve design
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non energized closed

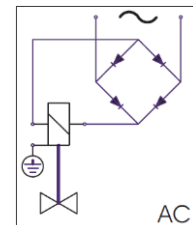
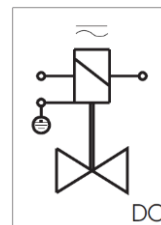
NO – non-energized open



CONNECTION DIAGRAM

For AC/DC coils

For DC coils
w/ integr. rectifier



CERTIFICATES



TECHNICAL FEATURES

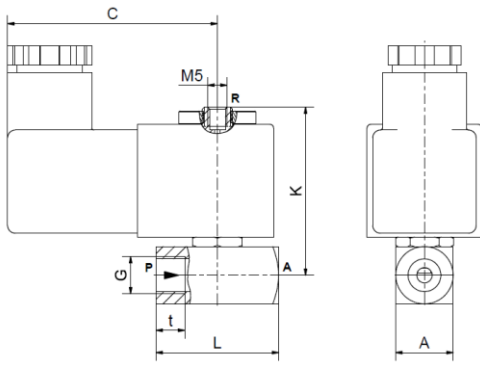
Seat Ø mm	Kv-value m³/h	Standard type	max. pressure for coils				ATEX	
			.182	.032	.012	.012-NO	.178	.148
1,0	0,06	.7230/1004/	-	-	0-90	-	-	-
1,0	0,06	.7230/1002/	0-10	0-25	0-50	0-25	0-10	0-20
1,5	0,09	.7231/1002/	0-8	0-15	0-25	0-15	0-8	0-10
2,0	0,13	.7232/1002/	0-6	0-11	0-22	0-11	0-3	0-8
2,5	0,16	.7233/1002/	-	0-8	0-15	0-8	-	0-6
3,0	0,20	.7234/1002/	-	0-6	0-10	0-5	-	0-3

The Kv values in the table apply to the larger drive

DIMENSIONS

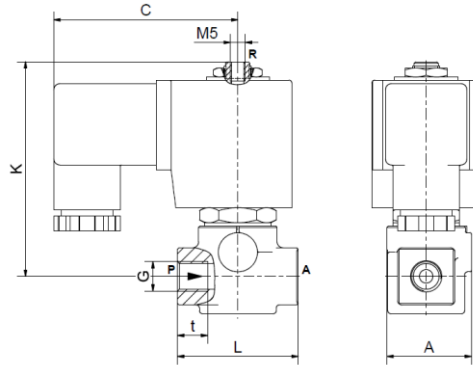
Design 1

Brass with coil .182 (.178) and all stainless steel variations



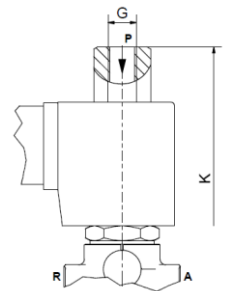
Design 2

Forged brass with coil .032 / .012 (.148)



Detail

NO - normally open



Coil	.182 / .178*	.032 / .148*	.012	.012-NO
Type	.7230-34	.7230-34	.7230-34	.7230-34
G	1/8	1/8	1/8	1/8
A	15	28	28	28
C	55	59	61	61
K	44	72	72	85
L	32	40	40	40
t	7,5	10	10	10
kg	0,2	0,4	0,5	0,55

*Differing dimension "C" for ATEX coils

Dimensions of nominal connection sizes G1/4, G3/8 and G1/2 on request



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	
. 72	3 1	/	1 0	0 2	/	.	1 8	2	-	X X

3 .	G 1/8
4 .	G 1/4
5 .	G 3/8
6 .	G 1/2
. 0	1.0 mm
. 1	1.5 mm
. 2	2.0 mm
. 3	2.5 mm
. 4	3.0 mm

06	St.steel 1.4305
08	St.steel 1.4571
10	Brass 2.0402
02	FKM
04	PTFE
06	EPDM

18	10,5 VA / 6,8 W	2	Standard IP65
03	15 VA / 11 W	8	2014/34/EU (ATEX)
01	24 VA / 18,5 W		
17	5,3 VA / 5,2 W		
14	8,5 VA / 10 W		

NO	normally open
HA	manual override