



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 gaseous and liquid media

## TECHNICAL SPECIFICATIONS

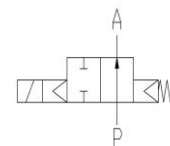
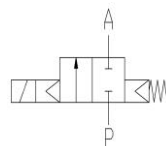
Type of control	Force-pilot operated, no pressure difference necessary																
Design	Piston design																
Connection	Sleeve connection G1/4 - G3 DIN ISO 228/1 (BSP) <small>Further connections like NPT on request</small>																
Installation	Actuator upright																
Pressure	0 - 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: -40 °C / +80 °C Environment: -40 °C / +50 °C <small>Taking into account other influencing parameters</small>																
Body material	Brass 2.0402 St. steel 1.4581																
Metallic inner parts	Brass and st. steel																
Sealing	PTFE																
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V <small>Other supply voltages on request</small>																
Voltage tolerance	-10% / +10%																
Power consumption	<table border="0"> <tr> <td>.802 = 24 Watt</td> <td>.808 = 24 Watt</td> <td>⚠</td> </tr> <tr> <td>.322 = 30 Watt</td> <td>.328 = 24 Watt</td> <td>⚠</td> </tr> <tr> <td>.242 = 46 Watt</td> <td>.248 = 30 Watt</td> <td>⚠</td> </tr> <tr> <td>.272 = 100 Watt</td> <td>.278 = 47 Watt</td> <td>⚠</td> </tr> <tr> <td></td> <td>.358 = 75 Watt</td> <td>⚠</td> </tr> </table>		.802 = 24 Watt	.808 = 24 Watt	⚠	.322 = 30 Watt	.328 = 24 Watt	⚠	.242 = 46 Watt	.248 = 30 Watt	⚠	.272 = 100 Watt	.278 = 47 Watt	⚠		.358 = 75 Watt	⚠
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Protection class	IP65 according to DIN 60529																
Duty factor	100% ED-VDE 0580																
Connection type	Device plug DIN 43650, terminal box																
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

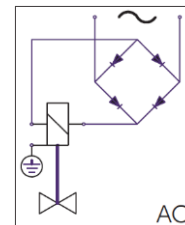
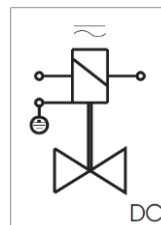
NC – non energized closed      NO – non-energized open



## CONNECTION DIAGRAM

For AC/DC coils

For DC coils  
w/ integr. rectifier



## CERTIFICATES



## TECHNICAL FEATURES

G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure for coils							
				.802		.322*		.242		.272	
				NC	NO	NC	NO	NC	NO	NC	NO
1/4	13,5	1,8	.3521/..04/	0-40	0-30	0-40	0-40	-	-	-	-
3/8	13,5	4,0	.3522/..04/	0-40	0-30	0-40	0-40	-	-	-	-
1/2	13,5	4,5	.3523/..04/	0-40	0-30	0-40	0-40	-	-	-	-
3/4	27,5	11,5	.3524/..04/	0-16	0-12	0-40	0-40	0-40	0-40	-	-
1	27,5	13,0	.3525/..04/	0-16	0-12	0-40	0-40	0-40	0-40	-	-
1 1/4	40	29,0	.3526/..04/	-	-	0-16	0-10	0-35	0-30	0-40	0-40
1 1/2	40	33,0	.3527/..04/	-	-	0-16	0-10	0-35	0-30	0-40	0-40
2	50	49,0	.3528/..04/	-	-	0-6	-	0-16	0-16	0-40	0-40
2 1/2	65	75,0	.3529/1004/	-	-	0-6	-	0-10	0-10	0-10	0-10
3	80	97,0	.3530/1004/	-	-	-	-	0-10	0-10	0-10	0-10

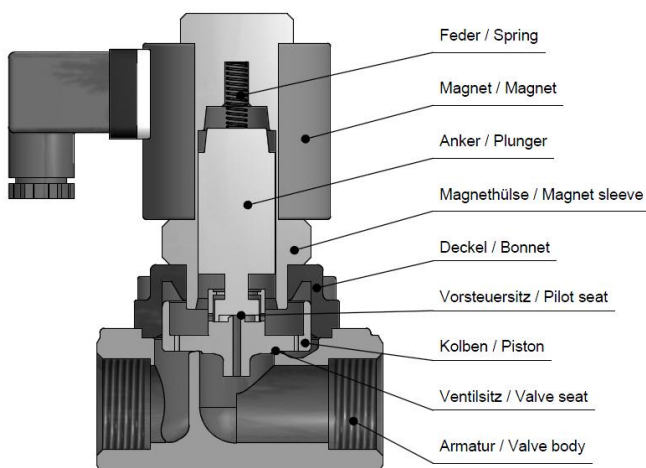
The flow rate mentioned in the table applies to the strongest coil.

\* Pressure ranges may decrease when using the manual override options.

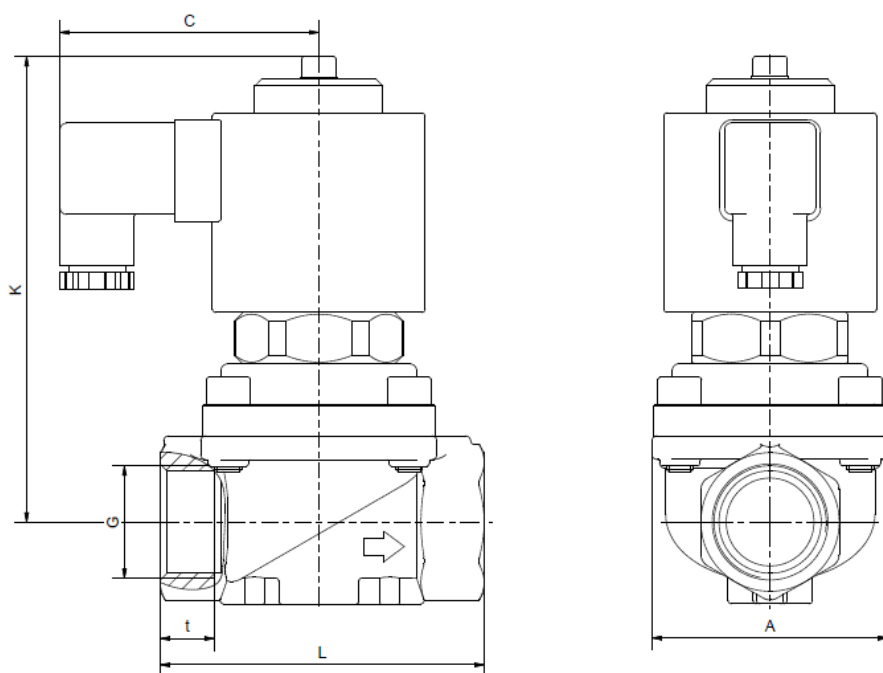
G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure for coils ATEX 				
				.808	.328*	.248	.278	.358
1/4	13,5	1,8	.3521/..04/	0-30	0-40	-	-	-
3/8	13,5	4,0	.3522/..04/	0-30	0-40	-	-	-
1/2	13,5	4,5	.3523/..04/	0-30	0-40	-	-	-
3/4	27,5	11,5	.3524/..04/	0-16	0-25	0-40	-	-
1	27,5	13,0	.3525/..04/	0-16	0-25	0-40	-	-
1 1/4	40	29,0	.3526/..04/	-	0-12	0-16	0-40	-
1 1/2	40	33,0	.3527/..04/	-	0-12	0-16	0-40	-
2	50	49,0	.3528/..04/	-	0-2	0-10	0-16	0-40
2 1/2	65	75,0	.3529/1004/	-	-	0-2	0-10	-
3	80	97,0	.3530/1004/	-	-	0-2	0-10	-

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

\* Pressure ranges may decrease when using the manual override options.



## DIMENSIONS



Coil	.802 / .808*		.322 / .328*				.242 / .248	
Type	.3521-23	.3524-25	.3521-23	.3524-25	.3526-27	.3528	.3524-25	.3526-27
G	1/4-1/2	3/4-1	1/4-1/2	3/4-1	1 1/4-1 1/2	2	3/4-1	1 1/4-1 1/2
A	48	70	48	70	96	112	70	96
C	70	70	77	77	77	77	93	93
K	104	122	148	138	148	183	178	189
L	67	96	64	96	140	168	96	140
t	12	16	12	16	22	22	16	22
kg	1,3	2,1	2,4	3,0	5,0	6,5	4,7	6,5

\*Differing dimension "C" for ATEX coils

Coil	.242 / .248			.272 / .278				.352 / .358
Type	.3528	.3529	.3530	.3526-27	.3528	.3529	.3530	.3528
G	2	2 1/2	3	1 1/4-1 1/2	2	2 1/2	3	2
A	112	on req.	on req.	96	112	on req.	on req.	112
C	93	93	93	107	107	107	107	107
K	194	232	236	220	238	280	260	306
L	168	175	200	140	168	175	200	168
t	22	22	22	22	22	22	22	22
kg	7,5	9,0	11,0	10,0	12,5	13,0	14,0	23,0

## 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>. 3 5</b>	<b>2 3</b>	<b>/</b>	<b>1 0</b>	<b>0 4</b>	<b>/</b>	<b>. 8 0</b>	<b>2</b>	<b>- X X</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
29	G 2 1/2
30	G 3

08	St. steel 1.4581
10	Brass 2.0402
04	PTFE

80	24 W
32	30 W
24	46 W
27	100 W
35	150 W

2	Standard IP65
8	2014/34/EU (ATEX)

NO	normally open
HA	manual override
OF	cleaned
O	Oxygen

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