



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 high pressure applications

## TECHNICAL SPECIFICATIONS

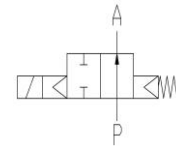
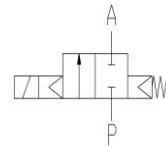
Type of control	Pilot operated, differential pressure necessary
Design	Piston design
Connection	Sleeve connection G1/4 - G1/2 DIN ISO 228/1 (BSP) <small>Further connections like NPT on request</small>
Installation	Preferable with actuator upright
Pressure	5 - 1000 bar (see table on page 2)
Medium	Clean, neutral gaseous
max. viscosity	22 mm <sup>2</sup> /s
Temperature range	Medium: -40 °C / +85 °C * Environment: -20 °C / +50 °C <small>* at ambient temperature of max. 40°C</small>
Body material	St. steel 1.4462, 1.4404
Metallic inner parts	Stainless steel
Sealing	PEEK
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V <small>Other supply voltages on request</small>
Voltage tolerance	-10% / +10%
Power consumption	.012 = 18 Watt    .148 = 10 Watt ⚠ .802 = 24 Watt    .808 = 24 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

- For high pressure applications up to 1000 bar
- Pressure difference is required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

## FUNCTION

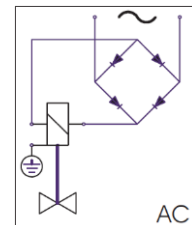
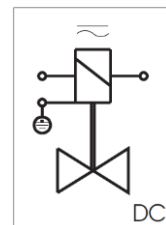
NC – non energized closed    NO – non-energized open



## CONNECTION DIAGRAM

For AC/DC coils

For DC coils  
w/ integr. rectifier



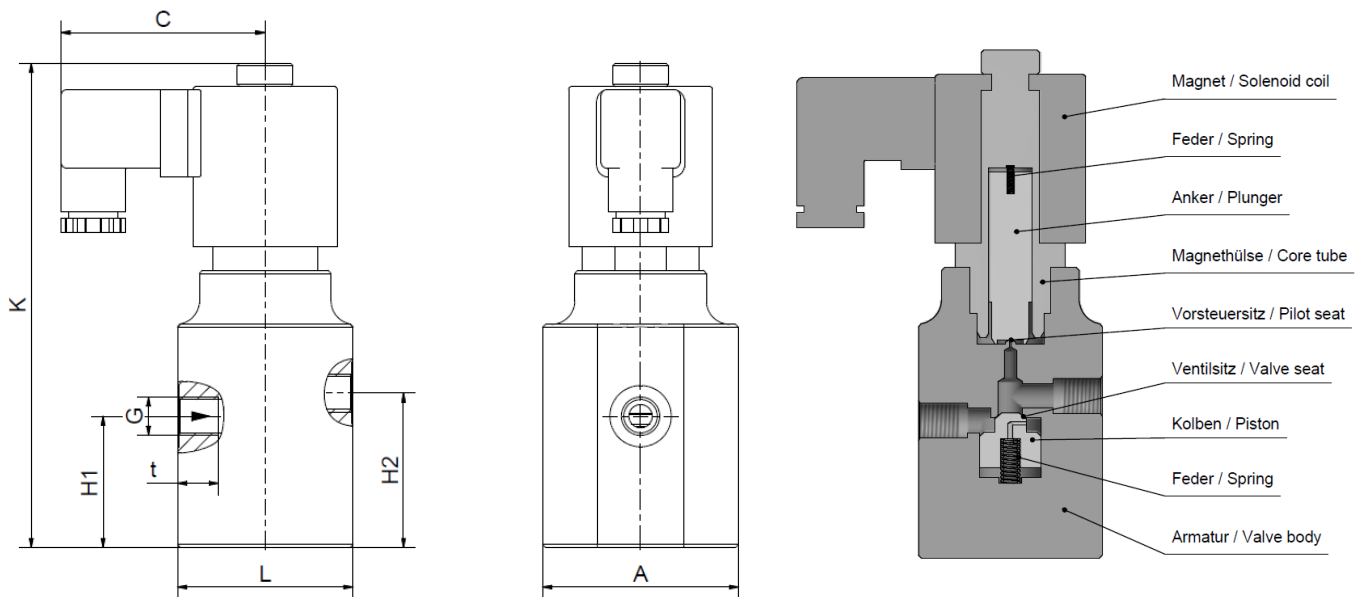
## CERTIFICATES



# TECHNICAL FEATURES

G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure for coils		max. pressure for coils ATEX	
				.012	.802	.148	.808
1/4	8,0	1,5	3/071-48-0815-	5-500	5-1000	5-250	5-1000
3/8	8,0	1,5	3/071-58-0815-	5-500	5-1000	5-250	5-1000
1/2	8,0	1,5	3/071-68-0815-	5-500	5-1000	5-250	5-1000

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



Coil	.012 / .148*			.802 / .808*		
	Type	3/071-48	3/071-58	3/071-68	3/071-48	3/071-58
G	1/4	3/8	1/2	1/4	3/8	1/2
A	67	67	67	67	67	67
C	61	61	61	70	70	70
H1	45	45	45	45	45	45
H2	53	53	53	53	53	53
K	150	150	150	166	166	166
L	60	60	60	60	60	60
t	13,5	13,5	13,5	13,5	13,5	13,5
kg	2,3	2,3	2,3	3,0	3,0	3,0

\*Differing dimension "C" for ATEX coils

## 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>3/071</b>	- <b>2 3</b>	- <b>0 8</b>	<b>1 5</b>	- . <b>8 0</b>	<b>2</b> - <b>X X</b>		
48	G 1/4	08	St. steel 1.4462	01	18 W	2	Standard IP65
58	G 3/8	13	St. steel 1.4404 *	80	24 W	8	2014/34/EU(ATEX)
68	G 1/2						
A8	7/16-20						TT UNF
B8	9/16-18		15 PEEK				1W Hydrogen
C8	13/16-16						

\* only in conjunction with option 1W for hydrogen applications.