



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 high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Force-pilot operated, no pressure difference necessary
Design	Piston design
Connection	Flanges DN15 - DN100 / PN160
Installation	Actuator upright
Pressure	0 - 130 bar (see table on page 2)
Medium	Clean, neutral gaseous and liquid media
max. viscosity	22 mm ² /s
Temperature range	Medium: -40 °C / +80 °C Environment: -10 °C / +50 °C Taking into account other influencing parameters
Body material	Steel C22.8 St. steel 1.4571
Metallic inner parts	St. steel
Sealing	PTFE
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	.242 = 46 Watt .248 = 30 Watt .272 = 100 Watt .278 = 47 Watt .352 = 150 Watt .358 = 75 Watt
Protection class	IP65 according to DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	terminal box
Ex-proof	acc. to 2014/34/EU (ATEX)

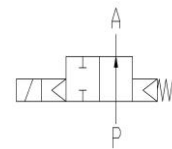
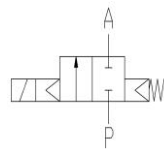
VALVE FEATURES

- For high pressure applications up to 130 bar
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements
- Pneumatic actuator on request

FUNCTION

NC – non energized closed

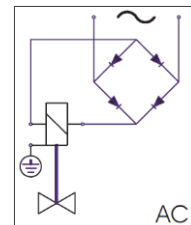
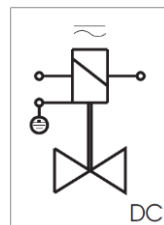
NO – non-energized open



CONNECTION DIAGRAM

For AC/DC coils

For DC coils
 w/ integr. rectifier



CERTIFICATES



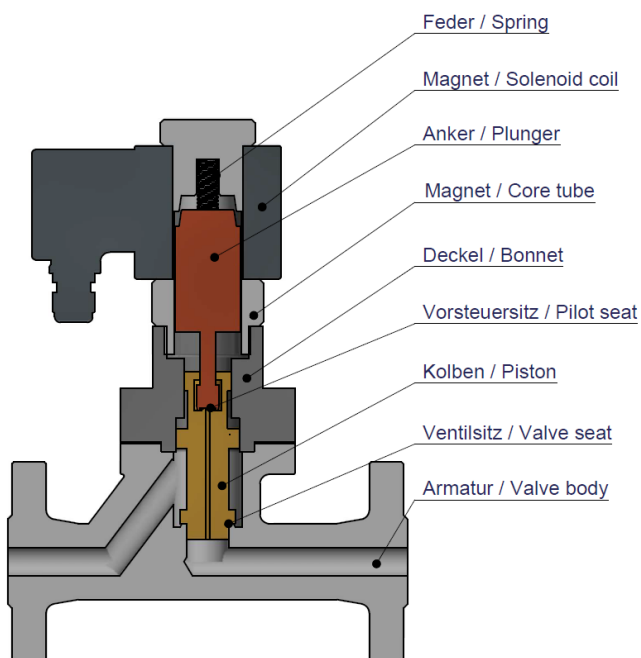
TECHNICAL FEATURES

DN	Kv-value m³/h	Standard type	max. pressure for coils		
			.242	.272	.352
15	3,8	1/041-01-..04-	0-70	0-100	0-130
20	11,0	1/041-02-..04-	0-70	0-100	0-100
25	13,0	1/041-03-..04-	0-70	0-100	0-100
32	22,0	1/041-04-..04-	-	0-70	0-100
40	24,0	1/041-05-..04-	-	0-70	0-100
50	35,0	1/041-06-..04-	-	0-70	0-80
65	68,0	1/041-07-..04-	-	0-70	0-80
80	85,0	1/041-08-..04-	-	-	0-70
100	120,0	1/041-09-..04-	-	-	0-70

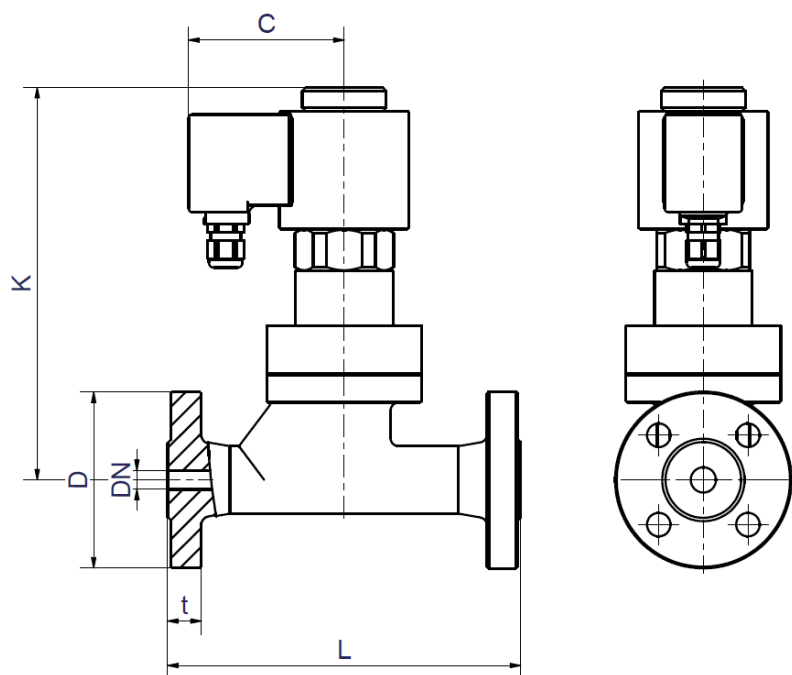
The flow rate mentioned in the table applies to the strongest coil.

DN	Kv-value m³/h	Standard type	max. pressure for coils ATEX 	
			.278	.358
15	3,8	1/041-01-..04-	0-70	0-100
20	11,0	1/041-02-..04-	0-70	0-100
25	13,0	1/041-03-..04-	0-70	0-100
32	22,0	1/041-04-..04-	-	0-100
40	24,0	1/041-05-..04-	-	0-100
50	35,0	1/041-06-..04-	-	0-70
65	68,0	1/041-07-..04-	-	0-60
80	85,0	1/041-08-..04-	-	0-60
100	120,0	1/041-09-..04-	-	0-55

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



DIMENSIONS



Coil	.242 / .248			.272 / .278						
Type	1/041-01	1/041-02	1/041-03	1/041-01	1/041-02	1/041-03	1/041-04	1/041-05	1/041-06	1/041-07
DN	15	20	25	15	20	25	32	40	50	65
C	93	93	93	107	107	107	107	107	107	107
D	105	130	140	105	130	140	155	170	195	220
K	233	207	207	292	266	266	323	a.Anfr.	311	281
L	210	230	230	210	230	230	260	260	300	340
t	20	24	24	20	24	24	24	28	26	34
kg	6,0	12,5	13,0	8,0	14,0	14,5	21,1	a.Anfr.	29,0	36,3

Coil	.352 / .358								
Type	1/041-01	1/041-02	1/041-03	1/041-04	1/041-05	1/041-06	1/041-07	1/041-08	1/041-09
DN	15	20	25	32	40	50	65	80	100
C	126	126	126	126	126	126	126	126	126
D	105	130	140	155	170	195	220	230	265
K	356	328	328	390	a.Anfr.	397	376	405	408
L	210	230	230	260	260	300	340	380	430
t	20	24	24	24	28	26	34	36	40
kg	21,8	28,0	28,5	38,3	a.Anfr.	40,5	52,0	66,5	83,2

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
1/041	- 03	- 00	04	- . 27	2 - XX
	01 DN15	00 Steel C22.8		24 46 W	2 Standard IP65
	02 DN20	08 St. steel 1.4571		27 100 W	8 2014/34/EU(ATEX)
	03 DN25			35 150 W	
	04 DN32	04 PTFE			NO normally open
	05 DN40				
	06 DN50				
	07 DN65				
	08 DN80				
	09 DN100				

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