TYPE 3/045

3/2-way solenoid valve
UN - Universal design

Direct controlled 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 high pressure applications**

TECHNICAL SPECIFICATIONS

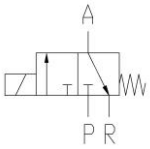
Type of control	Direct operated, no pressure difference necessary
Design	Poppet design
Connection	Sleeve connection G1/8 - G1/2 DIN ISO 228/1 (BSP) Further connections like NPT on request
Installation	Actuator upright
Pressure	0 - 250 bar (see table on page 2)
Medium	Clean, neutral gaseous and liquid media
max. viscosity	22 mm²/s
Temperature range	Medium: -10 °C / +80 °C Environment: -10 °C / +50 °C Taking into account other influencing parameters
Body material	St. steel 1.4571
Metallic inner parts	Brass and st. steel
Sealing	PEEK
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	.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

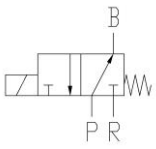
- For high pressure applications up to 250 bar
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC – non energized closed

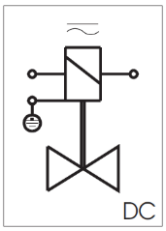


NO – non-energized open

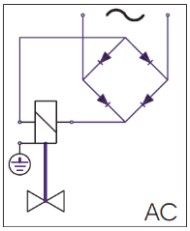


CONNECTION DIAGRAM

For AC/DC coils



For DC coils
w/ integr. rectifier

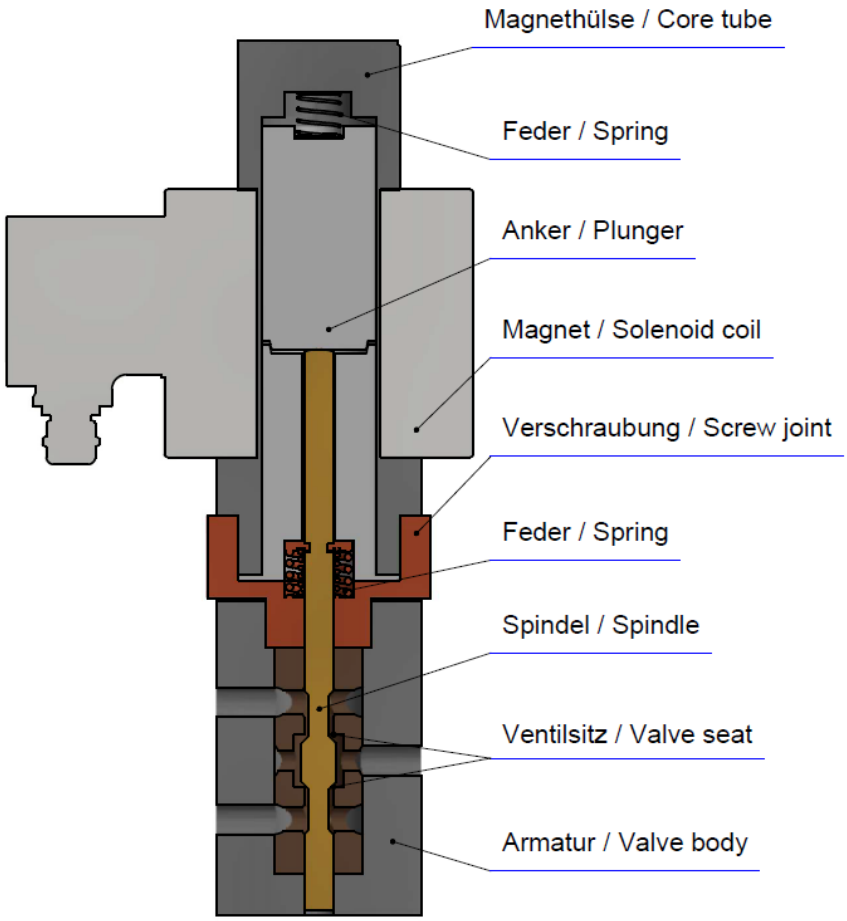


CERTIFICATES

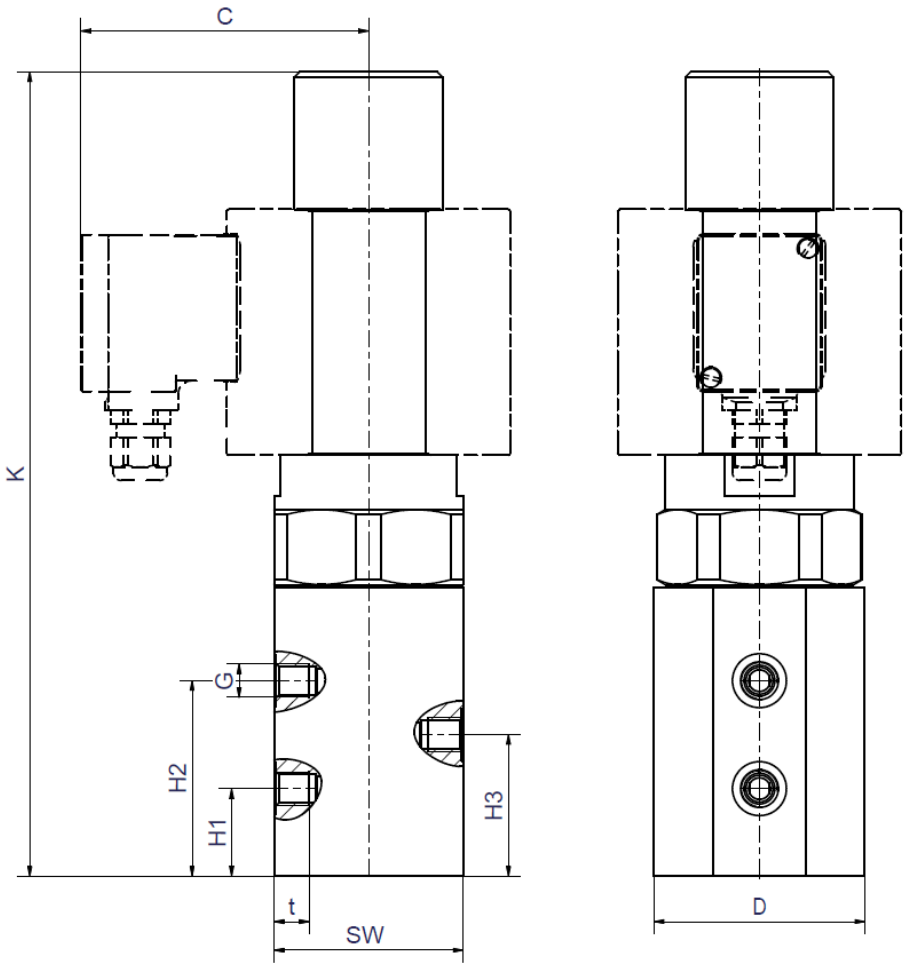
TECHNICAL FEATURES

				max. pressure for coils		max. pressure for coils ATEX	
G	Seat Ø mm	Kv-value m³/h	Standard type	.272	.352	.278	.358
1/8	10,0	1,2	3/045-20-0815-	0-200	0-250	0-150	0-210
1/4	10,0	1,2	3/045-21-0815-	0-200	0-250	0-150	0-210
3/8	10,0	1,2	3/045-22-0815-	0-200	0-250	0-150	0-210
1/2	10,0	1,2	3/045-23-0815-	0-200	0-250	0-150	0-210

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



DIMENSIONS



Coil	.272 / .278				.352 / .358			
Type	3/045-20	3/045-21	3/045-22	3/045-23	3/045-20	3/045-21	3/045-22	3/045-23
G	1/8	1/4	3/8	1/2	1/8	1/4	3/8	1/2
C	107	107	107	107	127	127	127	127
K	299	299	299	299	332	332	332	332
D	78	78	78	78	78	78	78	78
SW	70	70	70	70	70	70	70	70
H1	32,5	32,5	32,5	32,5	32,5	32,5	32,5	32,5
H2	72,5	72,5	72,5	72,5	72,5	72,5	72,5	72,5
H3	52,5	52,5	52,5	52,5	52,5	52,5	52,5	52,5
t	12,5	13,0	13,0	15,0	12,5	13,0	13,0	15,0
kg	10,9	11,3	11,2	10,8	22,6	22,6	22,6	22,5

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
3/045	**-**	**2 3**	**-**	**0 8**	**1 5**	**-**	**. 2 7**	**2**	**- x x**

20	G 1/8	08	St. steel 1.4571	27	100 W	2	Standard IP65
21	G 1/4			35	150 W	8	2014/34/EU(ATEX)
22	G 3/8	15	PEEK				
23	G 1/2						

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