TYPE 27

2/2-way solenoid valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)

Force-pilot operated diaphragm 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

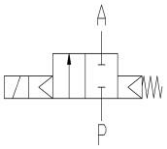
Type of control	Force-pilot operated, no pressure difference necessary
Design	Seat valve with diaphragm seal
Connection	Flanges acc. to EN 1092-1 Form B1/B2
Installation	Actuator upright
Pressure	0 - 16 bar (see table on page 2)
Medium	Clean, neutral gaseous and liquid media
max. viscosity	22 mm²/s
Temperature range	Medium -10 °C / +80 °C Environment -10 °C / +50 °C Taking into account other influencing parameters
Body material	Cast iron EN-GJL-250 (DN20-150) Cast steel GP240 GH (DN15-100) Duct.cast iron EN-GJS-400-18-LT (DN150) St. steel 1.4581 (DN15-50)
Metallic inner parts	Brass and st. steel
Sealing	NBR, FKM, EPDM
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	.032 =11 Watt .148 =10 Watt Ex .012 = 18,5 Watt .702 = 25 Watt .808 = 24 Watt Ex .322 = 30 Watt .328 = 24 Watt Ex .242 = 46 Watt .248 = 30 Watt Ex .272 = 100 Watt .278 = 47 Watt Ex
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

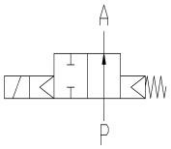
- No pressure difference required
- High life time
- Simple compact valve design
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non energized closed

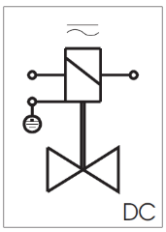


NO – non-energized open

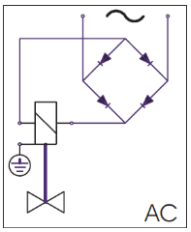


CONNECTION DIAGRAM

For AC/DC coils



For DC coils
w/ integr. rectifier



CERTIFICATES

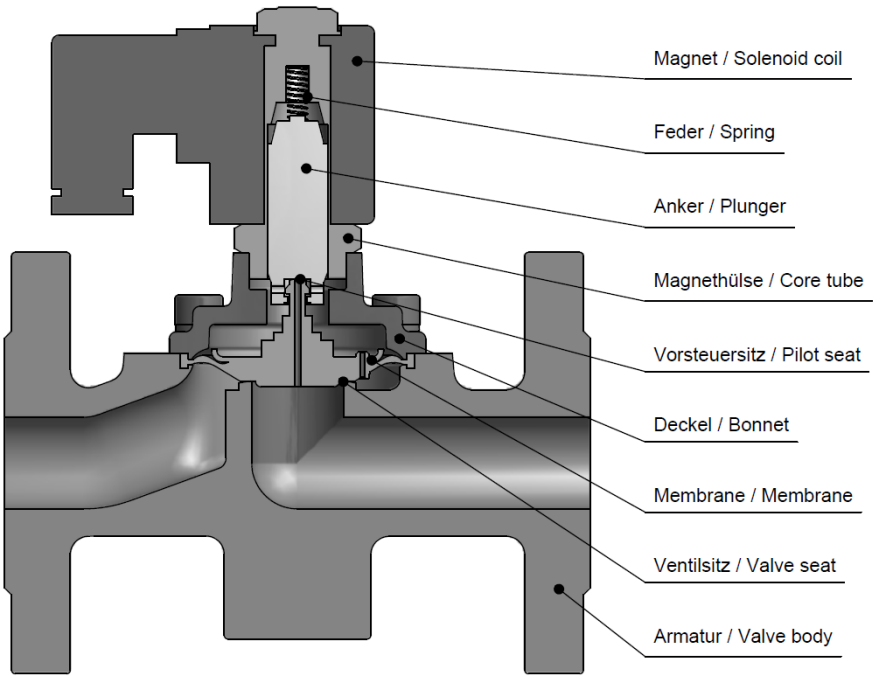
TECHNICAL FEATURES

			max. pressure for coils						
DN	Kv-value m³/h	Standard type	.032	.012	.702	.322	.242	.272	.352
15	3,9	.2701/..01/	0-10	0-16	0-16	-	-	-	-
20	10,8	.2702/..01/	0-6	0-10	0-16	-	-	-	-
25	13,0	.2703/..01/	0-6	0-10	0-16	-	-	-	-
32	30,0	.2704/..01/	-	-	-	0-10	0-16	0-16	-
40	32,0	.2705/..01/	-	-	-	0-10	0-16	0-16	-
50	45,0	.2706/..01/	-	-	-	0-6	0-16	0-16	-
80	97,0	.2708/..01/	-	-	-	-	0-2	0-3	-
100	143,0	.2709/..01/	-	-	-	-	-	0-2	-
150	370,0	.2711/..01/	-	-	-	-	-	0-2	0-2

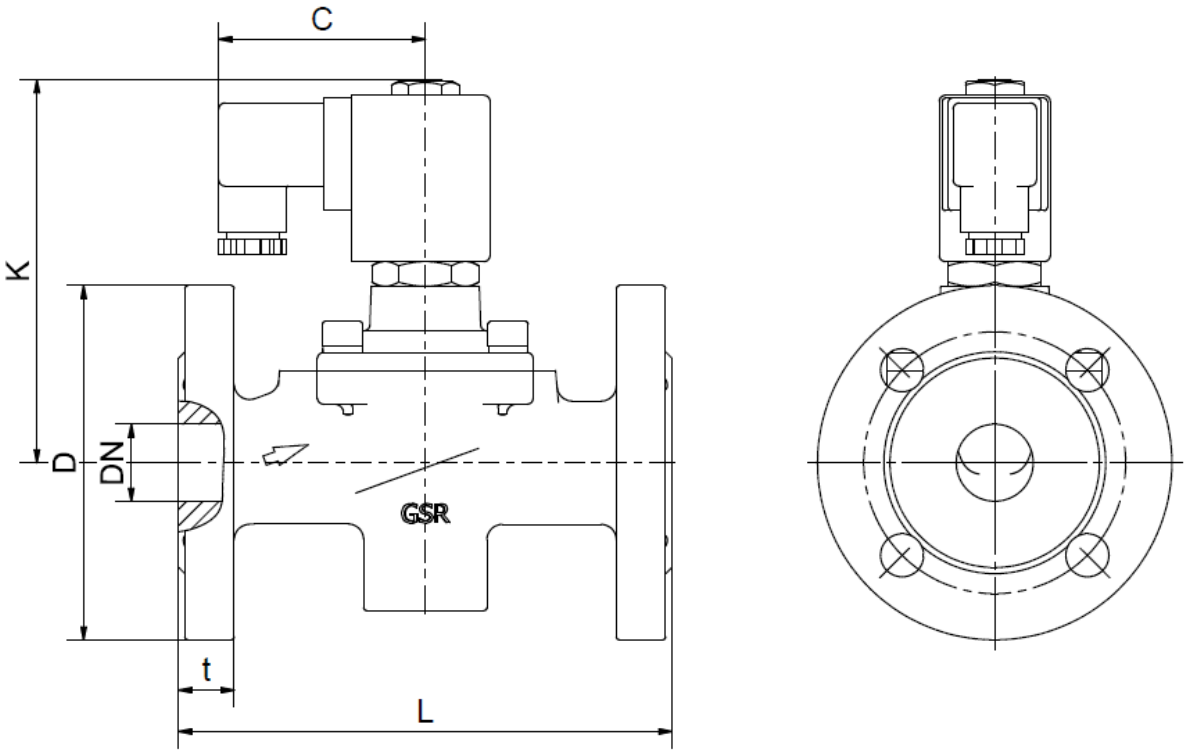
The flow rate mentioned in the table applies to the strongest coil.

			max. pressure for coils ATEX					
DN	Kv-value m³/h	Standard type	.148	.808	.328	.248	.278	.358
15	3,9	.2701/..01/	0-8	0-16	-	-	-	-
20	10,8	.2702/..01/	0-5	0-16	-	-	-	-
25	13,0	.2703/..01/	0-5	0-16	-	-	-	-
32	30,0	.2704/..01/	-	-	0-3	0-10	0-16	-
40	32,0	.2705/..01/	-	-	0-3	0-10	0-16	-
50	45,0	.2706/..01/	-	-	0-3	0-6	0-16	-
80	97,0	.2708/..01/	-	-	-	-	0-2	-
100	143,0	.2709/..01/	-	-	-	-	-	0-2
150	370,0	.2711/..01/	-	-	-	-	-	0-2

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



DIMENSIONS



Coil	.032 /.012 / .148*			.702 /.808*			.322 /.328*		
Type	.2701	.2702	.2703	.2701	.2702	.2703	.2704	.2705	.2706
DN	15	20	25	15	20	25	32	40	50
C	61	61	61	67	67	67	77	77	77
D	95	105	115	95	105	115	140	150	165
K	94 (86)	100 (96)	100 (96)	114 (106)	127 (122)	127 (122)	184 (172)	184 (172)	192 (179)
L	130	150	160	130	150	160	180	200	230
t	16	18	18	16	18	18	18	18	20
kg	2,8	3,9	4,5	3,1	4,2	4,8	8,8	9,3	12,1

*Differing dimension "C" for ATEX coils

Coil	.242 / .248				.272 / .278					.352(8)
Type	.2704	.2705	.2706	.2708	.2704	.2705	.2706	.2709	.2711	.2711
DN	32	40	50	80	32	40	50	100	150	150
C	93	93	93	93	107	107	107	107	107	127
D	140	150	165	200	140	150	165	220	285	285
K	209 (198)	209 (198)	218 (205)	255	254 (242)	254 (242)	264 (251)	305	410	450
L	180	200	230	310	180	200	230	350	480	480
t	18	18	20	21	18	18	20	24	28	28
kg	9,7	10,2	13,0	29,0	13,7	14,3	17,3	45,5	86,0	97,0

Die Werte in Klammern beziehen sich auf die Edelstahl-Ausführung (DN15 - DN50)

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
. 27	0 3	/	0 4	0 1	/	.	0 1	2	-	x x

01	DN15
02	DN20
03	DN25
04	DN32
05	DN40
06	DN50
07	DN65
08	DN80
09	DN100
11	DN150

03	EN-GJS-400-18-LT
04	EN-GJL-250
05	GP240 GH
08	St. steel 1.4581

01	NBR
02	FKM
06	EPDM

14	8,5 VA / 10 W
03	15 VA / 11 W
01	24 VA / 18,5 W
70	25 W
32	30 W
24	46 W
27	100 W

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

NO	normally open
HA	manual override
X2	limit switch

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