

Technical Data Sheet Type 28



2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Pilot operated diaphragm 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 gaseous and liquid media

VALVE FEATURES

- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, pressure difference is required					
Design	Diaphragm design					
Connection	Flanged acc. to EN 1092-1 Form B1/B2 Further flanges like ASME on request					
Installation	Preferable with actuator upright					
Pressure	0,3 - 20 bar (see table on page 2)					
Medium	Clean, neutral, gaseous and liquid media					
Viscosity	22 mm²/s					
Temperature range	Medium: -10 °C up to +80 °C Ambient: -10 °C up to +50 °C In consideration of the restrictions described on page 4					
Body material	Cast iron EN-GJL-250 Cast steel GP240 GH Stainless steel 1.4581					
Metallic inner parts	Brass and Stainless 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	.182 = 6,8 Watt .178 = 5,2 Watt .032 = 11 Watt .148 = 10 Watt .012 = 18 Watt					
Protection class	IP65 acc. to DIN 60529					
Duty factor	100% ED-VDE 0580					
Connection type	Plug / Cable					

Further Ex-proof on request

FUNCTION

NC - non energized closed

NO - non-energized open





CERTIFICATES







ORDERING SYSTEM

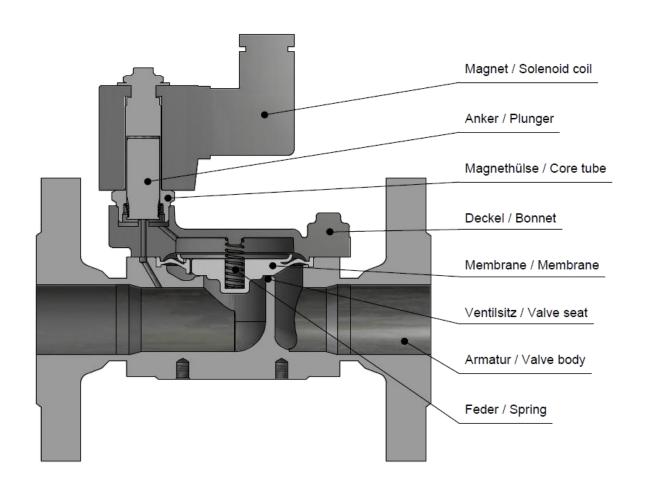


TECHNICAL FEATURES



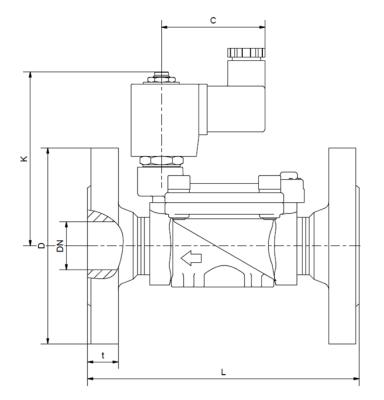
				max. pressure for coils			max. pressure for coils ATEX		
DN	Seat Ø mm	Kv-value m³/h	Standard type	.182	.032	.012-NO	.178	.148	.148-NO
15	15	3,9	.2801/01/	0,3-16	0,3-20	0,3-20	0,3-10	0,3-20	0,3-16
20	20	10,8	.2802/01/	0,3-16	0,3-20	0,3-20	0,3-10	0,3-20	0,3-16
25	25	13,0	.2803/01/	0,3-16	0,3-20	0,3-20	0,3-10	0,3-20	0,3-16
32	32	30,0	.2804/01/	-	0,5-16	0,5-16	-	0,5-16	0,5-13
40	40	32,0	.2805/01/	-	0,5-16	0,5-16	-	0,5-16	0,5-13
50	50	45,0	.2806/01/	-	0,5-16	0,5-16	-	0,5-16	0,5-13

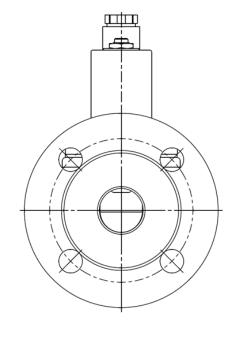
The flow rate mentioned in the table applies to the strongest coil. Pressure rating for EN-GJL-250 max. 16 bar.



DIMENSIONS







Coil	.182 / .032 / .012-NO / .148									
Type	2801	2802	2803	2804	2805	2806				
DN	15	20	25	32	40	50				
С	61	61	61	61	61	61				
K	97	105	105	120	120	135				
L	130	150	160	180	200	230				
t	16	18	18	18	18	20				
kg	2,3	3,3	3,8	6,5	7,0	9,5				
*Differing dimension "C" for ATEX-coils										

^{*}Differing dimension "C" for ATEX-coils

INFORMATION



- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- 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.

Heating and power of solenoid coils

The GSR default solenoid valves are designed for continuous operation (100% ED = power-on time) under normal operating conditions. The pulling force of a solenoid coil is basically influenced by three elements:

- The self-heating of the magnetic coil
- The medium temperature
- The ambient temperature

GSR solenoid coils are by default designed for a maximum ambient temperature of +35 °C. This specification applies for the maximum allowable operating pressure specified in the data sheet of the corresponding valve, 100% duty cycle and a medium temperature of +80 °C.

A higher ambient temperature is possible, when lower values are applied for the other influencing parameters. When the max. operation pressure and max. ambient temperature of +50 °C is given the medium temperature is not allowed to be higher than max. +50 °C. In addition to that, deviations from the default design temperature range are possible, e.g. when temperature coils or other constructive measures are used. Please contact the GSR headquarters to discuss the specific application.

More precise specifications and technical data with regard to the operating conditions can be found in the data sheets of the solenoid coils and the solenoid valve regarded. Please observe that the surface temperature of a permanently loaded coil can amount up to +120 °C, solely by the self-heating of the coil. The power consumption of our default solenoid valves was calculated to DIN VDE 05820 for a coil temperature of +20 °C.

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Stand: 05.17, MK-MG, Version 1.