

Technical Data Sheet Type 25

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

Pilot operated piston design 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**

Type 25

TECHNICAL SPECIFICATIONS

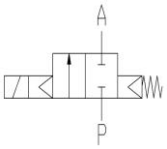
Type of control	Pilot operated, pressure difference required
Design	Piston design
Connection	Flanges acc. to EN 1092-1 Form B1/B2 Other flange connections like ASME on request
Installation	Preferable with actuator upright
Pressure	1 - 40 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	22 mm²/s
Temperature range	Medium: -30 °C up to +80 °C Ambient: -30 °C up to +50 °C In consideration of the restrictions described on page 4
Body material	Cast steel GP240 GH
Metallic inner parts	Stainless steel
Sealing	PTFE
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	.802 = 24Watt .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 acc. to DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	Plug, Terminal box
Ex-proof	acc. to 2014/34/EU (ATEX) Further Ex-proof on request

VALVE FEATURES

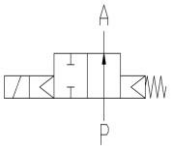
- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non energized closed



NO – non-energized open



CERTIFICATES

ORDERING SYSTEM

Type			Conn.		Housing	Seal		Coil			Option	
.	2	5	0	9	/ 0	5	0	4	/ .	3	2	2	-	H	A

Conn.	
07	DN 65
08	DN80
09	DN100
10	DN125
11	DN150
12	DN200
13	DN250

Housing	
05	GP240 GH

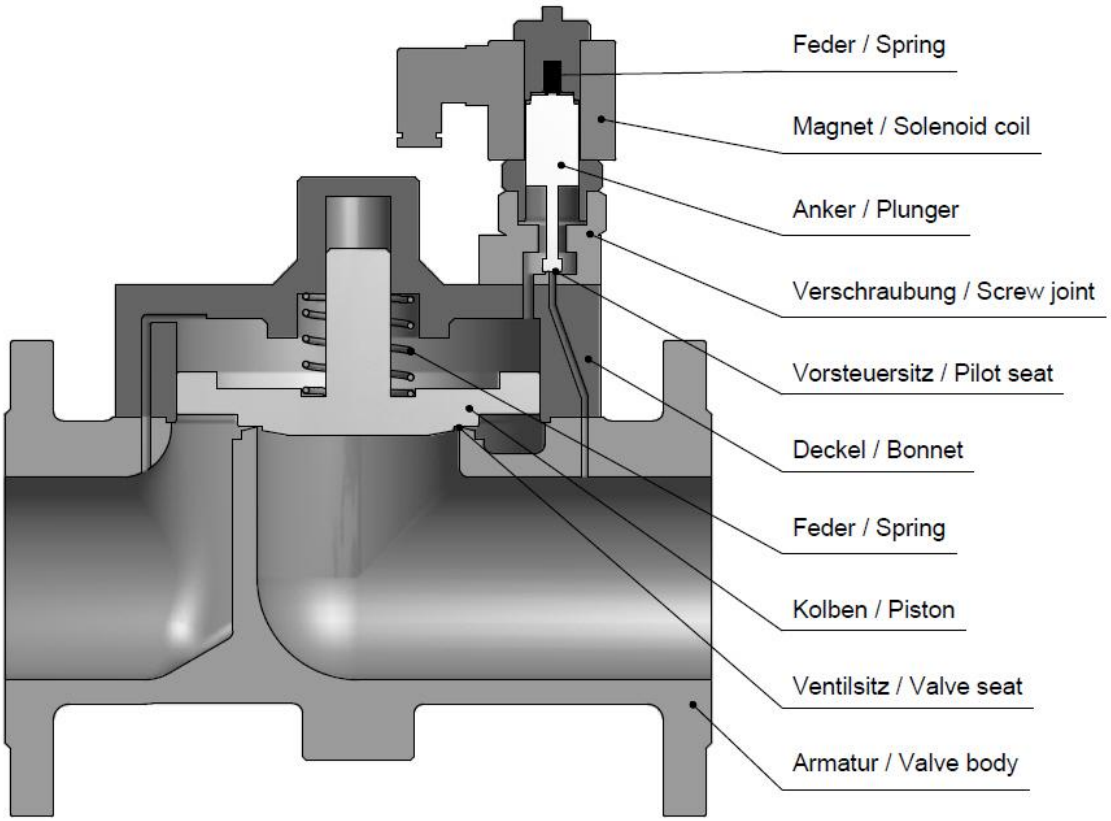
Seal	
04	PTFE

Coil	
2	Standard IP65
8	Explosion proof acc. to directive 2014/34/EU (ATEX)

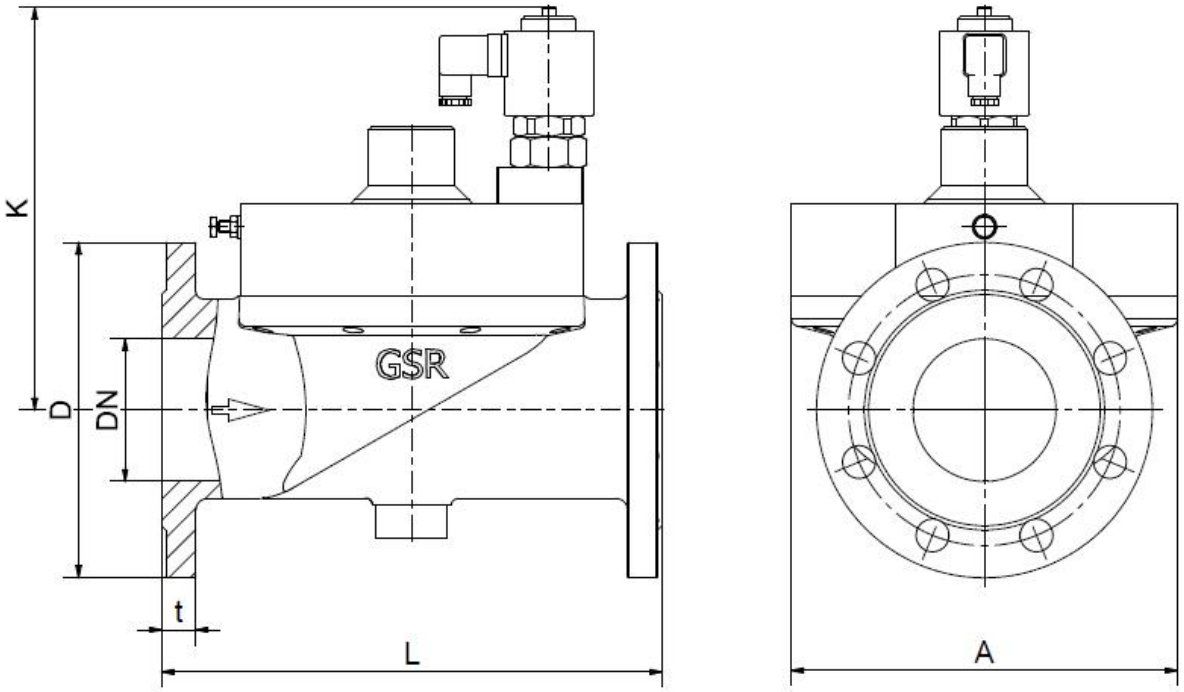
TECHNICAL FEATURES

			max. pressure for coils			
DN	Kv-value m³/h	Standard type	.802	.322	.242	.272
65	75,0	.2507/0504/	1-40	-	-	-
80	97,0	.2508/0504/	1-40	-	-	-
100	143,0	.2509/0504/	-	1-40	-	-
125	240,0	.2510/0504/	-	-	2-40	-
150	370,0	.2511/0504/	-	-	2-40	-
200	625,0	.2512/0504/	-	-	-	2-40
250	950,0	.2513/0504/	-	-	-	2-40

			max. pressure for coils ATEX			
DN	Kv-value m³/h	Standard type	.808	.328	.248	.278
65	75,0	.2507/0504/	1-40	-	-	-
80	97,0	.2508/0504/	1-40	-	-	-
100	143,0	.2509/0504/	-	1-25	-	-
125	240,0	.2510/0504/	-	-	2-16	-
150	370,0	.2511/0504/	-	-	2-16	-
200	625,0	.2512/0504/	-	-	-	2-16
250	950,0	.2513/0504/	-	-	-	2-16



DIMENSIONS



Coil	.802 /.808*		.322 / .328*	.242 / .248		.272 / .278	
Type	2507	2508	2509	2510	2511	2512	21513
DN	65	80	100	125	150	200	250
A	215	250	270	235	265	345	415
C	70	70	77	93	93	107	107
D	185	200	235	270	300	340	450
K	205	225	285	355	360	440	530
L	290	310	350	400	480	600	730
t	22	24	24	26	28	34	38
kg	27,5	38,4	53,4	54,7	75,1	148,9	235,8

*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: 08.17, MK-MG, Version 1.