

GSR[®]

2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Pilot operated Membranventil. 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

TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, pressure difference necessary
Design	Diaphragm design
Connection	Threaded G1/4 - G3 DIN ISO 228/1 (BSP) Further connections like NPT on request
Installation	Preferable with actuator upright
Pressure	0,3 - 20 bar (see table page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	22 mm²/s
Temperature range	Medium: -10 °C bis +80 °C Ambient: -10 °C bis +50 °C Unter Berücksichtigung der Einschränkungen wie auf
Body material	Brass 2.0402 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 6 .032 = 11 Watt .148 = 10 Watt 6 .012 = 18 Watt
Type of control	IP65 nach DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	Standard coils: Plug ATEX-coils: 3m cable
Ex-proof	acc. to 2014/34/EU (ATEX)

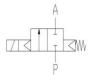
VALVE FEATURES

- 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



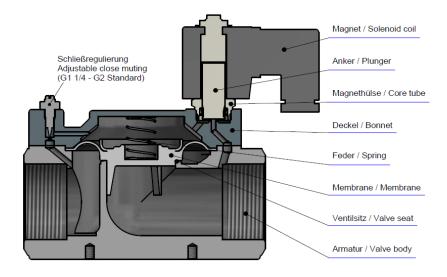


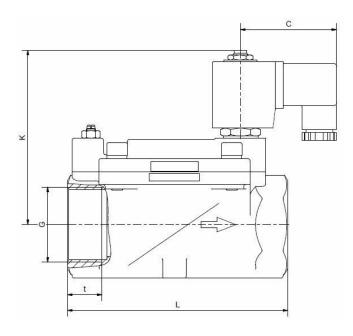


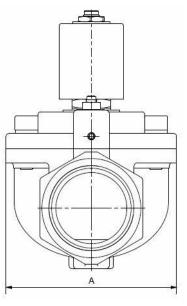
				max. pressur	e for coils NC	max. pressure for coils ATEX NC		
G	Seat Ø mm	Kv-value m³/h	Standard type	.182	.032	.178	.148	
1/4	13,5	1,6	.4021/01/	0,3-20	0,3-20	0,3-10	0,3-20	
3/8	13,5	3,3	.4022/01/	0,3-20	0,3-20	0,3-10	0,3-20	
1/2	13,5	3,8	.4023/01/	0,3-20	0,3-20	0,3-10	0,3-20	
3/4	27,5	11,0	.4024/01/	0,3-16	0,3-20	0,3-10	0,3-20	
1	27,5	13	.4025/01/	0,3-16	0,3-20	0,3-10	0,3-20	
1 1/4	40	30	.4026/01/	-	0,5-16	-	0,5-16	
1 1/2	40	32	.4027/01/	-	0,5-16	-	0,5-16	
2	50	45	.4028/01/	-	0,5-16	-	0,5-16	
2 1/2	65	on req.	.4029/1001/XX	-	0,3-10	-	-	
3	80	on req.	.4030/1001/XX	-	0,3-10	-	-	

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

				max. pressur	e for coils NO
G	Seat Ø mm	Kv-value m ³ /h	Standard type	.012	.148
1/4	13,5	1,6	.4021/01/.	0,3-20	0,3-20
3/8	13,5	3,3	.4022/01/	0,3-20	0,3-20
1/2	13,5	3,8	.4023/01/	0,3-20	0,3-20
3/4	27,5	11,0	.4024/01/	0,3-20	0,3-20
1	27,5	13	.4025/01/	0,3-20	0,3-20
1 1/4	40	30	.4026/01/	0,5-16	-
1 1/2	40	32	.4027/01/	0,5-16	-
2	50	45	.4028/01/	0,5-16	-







coil			.182 / .178		
Туре	4021	4022	4023	4024	4025
G	1/4	3/8	1/2	3/4	1
А	48	48	48	70	70
С	51	51	51	51	51
К	75	75	75	87	87
L	67	67	67	96	96
t	12	12	12	16	16
kg	0,9	0,85	0,8	1,65	1,5
*Differing dim	nension "C" for	ATEX coils			

Differing dimension "C" for ATEX coils

coil				.032 / .0	12 /. 148							
Туре	4021	4022	4023	4024	4025	4026	4027	4028				
G	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2				
А	48	48	48	70	70	96	96	112				
С	61	61	61	61	61	61	61	61				
К	90	90	90	102	102	110	110	120				
L	67	67	67	96	96	140	140	168				
t	12	12	12	16	16	22	22	22				
kg	0,9	0,85	0,8	1,65	1,5	3,1	2,9	4,0				
*Differing dim	*Differing dimension "C" for ATEX coils											

GSR

- 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: 02.18, MK-MG, Version 2







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

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
Ex-proof	acc. to 2014/34/EG(ATEX) Further Ex-proof on request

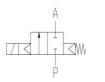
VALVE FEATURES

- 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

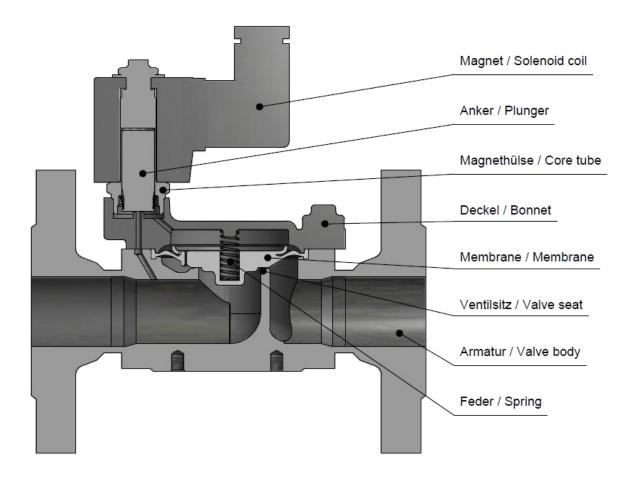


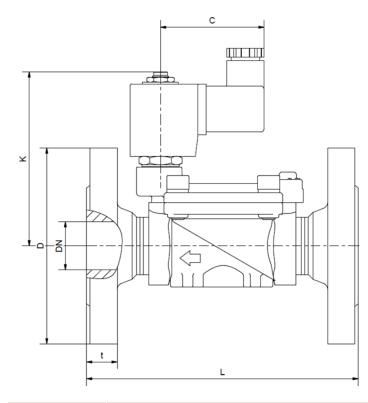
	Туре		Cor	ın.		Hou	sing	Se	al				Coil			0	ption
	2	8	0	3	/	0	4	0	1	/		0	3	2	-	Ν	0
		<mark>03</mark> 04 05	DN15 DN20 DN25 DN32 DN32 DN40		05	EN-G. GP24 Stain	0 GH .st. 1. <mark>01</mark>	4581 NBR			2 8	Explo acc. t	lard IP sion p o dire 34/EU	roof			
		06	DN50				02 06	FKM EPDM									

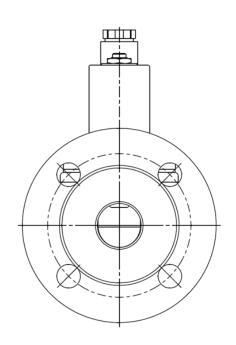


				max.	pressure for	coils	max. pressure for coils ATEX			
DN	Seat Ø mm	Kv-value m³/h	Standard type	.182	.032	.012-NO	.178	.148	.148-NO	
15	15	3,9	.2801/01/	0,3-16	0,3-20	0,3-20	0,3-10	0,3-20	0,3-16	
20	20	10,8	.2802/01/	0,3-16	0,3-20	0,3-20	0,3-10	0,3-20	0,3-16	
25	25	13,0	.2803/01/	0,3-16	0,3-20	0,3-20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







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Coil	.182 / .032 / .012-NO / .148										
Туре	2801	2802	2803	2804	2805	2806					
DN	15	20	25	32	40	50					
С	61	61	61	61	61	61					
К	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 dimens	*Differing dimension "C" for ATEX-coils										

- 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.

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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.

Ventiltechnik



NC - Valve normally closed (as standard) NO - Valve normally open (as option)

inlet and outlet is necessary for proper operation. In standard (NC) the valve closes with spring power.

2/2-way solenoid valve

GSR Ventiltechnik

TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, differencial pressure necessary						
Design	Piston design						
Connection	Threaded G1/4 - G2 DIN ISO 228/1 (BSP) Further connections like NPT on request						
Installation	Preferable with actuator upright						
Pressure	0,5 - 40 bar (see table on page 2)						
Medium	Clean, neutral, gaseous and liquid media						
max. viscosity	22 mm²/s						
Temperature range	Medium: -20 °C bis +80 °C Ambient: -20 °C bis +50 °C In consideration of the restrictions described on page 4						
Body material	Brass 2.0402 Stainless steel1.4581						
Metallic inner parts	Brass and stainless steel						
Sealing	NBR, FKM, EPDM, PTFE Seat PTFE						
Supply voltage	AC~ 24V, 110V, 230V						
	DC= 12V, 24V Other supply voltages on request						
Voltage tolerance	,						
Voltage tolerance Power consumption	Other supply voltages on request						
Power	Other supply voltages on request -10% / +10% .182 = 6,8 Watt .178 = 5,2 Watt .032 = 11 Watt .148 = 10 Watt						
Power consumption	Other supply voltages on request -10% / +10% .182 = 6,8 Watt .178 = 5,2 Watt (20) .032 = 11 Watt .148 = 10 Watt (20) .012 = 18 Watt .148 = 10 Watt (20)						
Power consumption Type of control	Other supply voltages on request -10% / +10% .182 = 6,8 Watt .178 = 5,2 Watt .032 = 11 Watt .148 = 10 Watt .012 = 18 Watt IP65 acc. to DIN 60529						

VALVE FEATURES

Pilot operated piston design. The mentioned minimum pressure difference between

- Pressure difference is required
- High life time

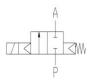
Solenoid valve for gaseous and liquid media

- 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



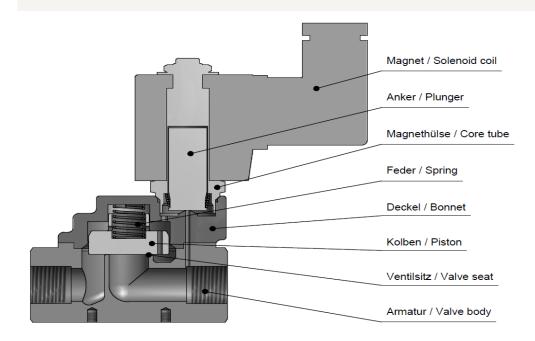
Valve	e type	•									Coil sy	stem		Va	lve op	tions
5	1	2	3	/	1	0	0	1	/		0	3	2	-	Н	А
	21 22	G 1/4 G 3/8 G 1/2	r	Bod 10 08	y mate Brass St.ste	2.040	-			2 8	Stand Explo acc. t 2014/3	sion-p o dire	oroof ctive			
	25 26 27	G 3/4 G 1 G 1 1/ G 1 1/ G 2				Seal 1 01 02 04 06	mater NBR FKM PTFE EPDN									

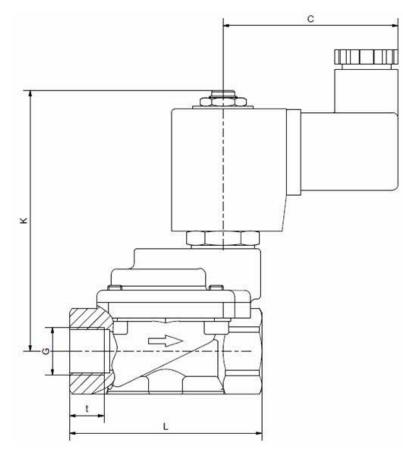


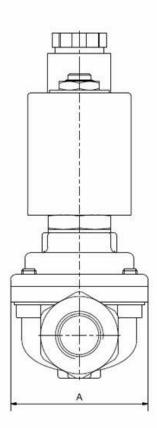
				max. pressur	e for coils NC	max. pressure for coils ATEX NC		
G	Seat mm	Kv-value m³/h	Standard type	.182	.032	.178	.148	
1/4	13,5	1,8	.5121/01/	0,5-40	0,5-40	0,5-12	0,5-40	
3/8	13,5	4,0	.5122/01/	0,5-40	0,5-40	0,5-12	0,5-40	
1/2	13,5	4,5	.5123/01/	0,5-40	0,5-40	0,5-12	0,5-40	
3/4	27,5	11,5	.5124/01/	0,5-40	0,5-40	0,5-12	0,5-40	
1	27,5	13,0	.5125/01/	0,5-40	0,5-40	0,5-12	0,5-40	
1 1/4	40	29,0	.5126/01/	-	0,5-40	-	0,5-40	
1 1/2	40	33,0	.5127/01/	-	0,5-40	-	0,5-40	
2	50	49,0	.5128/01/	-	0,5-40	-	0,5-40	

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

				max. pressur	e for coils NO
G	Seat mm	Kv-value m³/h	Standard type	.012	.148
1/4	13,5	1,8	.5121/01/NO	0,5-40	0,5-25
3/8	13,5	4,0	.5122/01/NO	0,5-40	0,5-25
1/2	13,5	4,5	.5123/01/ - NO	0,5-40	0,5-25
3/4	27,5	11,5	.5124/01/ - NO	0,5-40	0,5-20
1	27,5	13,0	.5125/01/ - NO	0,5-40	0,5-20
1 1/4	40	29,0	.5126/01/NO	0,5-16	0,5-13
1 1/2	40	33,0	.5127/01/ - NO	0,5-16	0,5-13
2	50	49,0	.5128/01/NO	0,5-16	0,5-13







G	S	R
Vent	iltec	hnik

Coil			.182 / .178		
Туре	5121	5122	5123	5124	5125
G	1/4	3/8	1/2	3/4	1
А	48	48	48	70	70
С	51	51	51	51	51
К	75	75	75	91	91
L	67	67	67	96	96
t	12	12	12	16	16
kg	0,9	0,85	0,8	1,8	1,65
*Differing dim	nension "C" for	ATEX-coils			

Coil	.032 /.012 / .148												
Туре	5121	5122	5123	5124	5125	5126	5127	5128					
G	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2					
А	48	48	48	70	70	96	96	112					
С	61	61	61	61	61	61	61	61					
К	90	90	90	106	106	128	128	140					
L	67	67	67	96	96	140	140	168					
t	12	12	12	16	16	22	22	22					
kg	0,9	0,85	0,8	1,8	1,65	3,8	3,5	5,2					
*Differing dim	nension "C" for	ATEX-coils											

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
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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: 01.18, MK-MG, Version 1.

Ventiltechnik



2/2-Way solenoid valve

Valve normally closed (NC).

When energized the solenoid opens the pilot hole thus reducing the pressure above the diaphragm. The pressure under the diaphragm becomes higher and lifts it from the valve seat. The specified minimum pressure must always be available as pressure difference.

Solenoid valve for clean, neutral, gaseous and liquid media

GSR

Ventiltechnik

TECHNICAL SPECIFICATIONS VALVE FEATURES

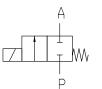
Type of control:	Pilot operated
Design:	Piston design
Connection:	Flanges acc. to EN 1092-1 Form B1/B2 Other flange connections like ASME or JIS on request
Installation:	Actuator in any position, preferable upright
Pressure:	0,5-40 bar (see table page 2)
Medium:	Clean, neutral, gaseous and liquid medium
Viscosity:	22 mm²/s
Temperature range:	Medium: -20 °C up to $+80$ °C Ambient: -20 °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, PTFE, EPDM
Supply voltage:	AC~ 24V, 110V, 230V DC= 12V, 24V, 110V Other supply voltages on request
Voltage tolerance:	-10% / +10%
Power consumption:	.182 = DC 6,8 Watt, AC 14,5 VA / 10,5 VA .032 = DC 11 Watt, AC 24 VA / 15 VA .148 = DC 10 Watt, AC 8,5 VA .178 = DC 5,2 Watt, AC 5,3 VA
Protection class:	IP65 according to DIN 60529
Duty factor:	100% ED-VDE 0580
Connection type:	Plug
Ex-proof:	Ex m ll T4 Further Ex-proof on request.

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

FUNCTION

NC - non energized closed

NO - non energized open





CERTIFICATES





In special design also available for temperatures up to +200 °C. Specifications and drawings on request.

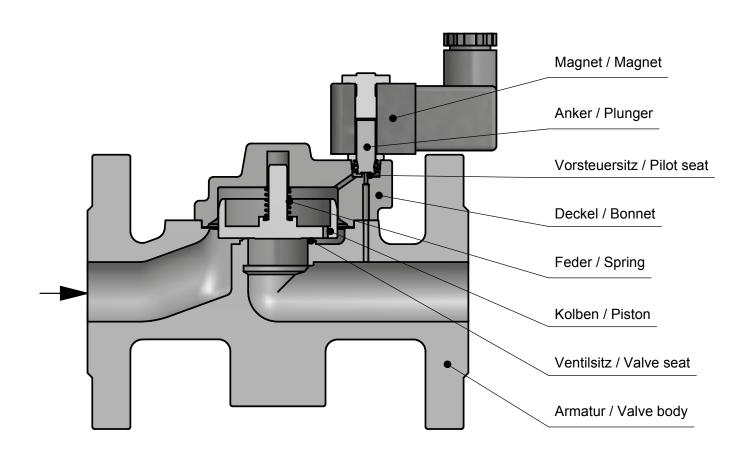
							Co	il syst	em		Valve	e opti	ons
54	ł	02	/	04	04	/			03	2	-	Ν	0
	Con	nection	Boo	ły			2	Stan	idard IP	65			
	01	DN15	04	Cast iron			8	expl	osion p	roof			
	02	DN20		EN-GJL-25	0				to Dire				
	03	DN25		Cast steel				94/9	9/EG (A1	TEX)			
	04	DN32		GP240 GH									
	05	DN40	06	Stainless st	eel								
	06	DN50		1.4301									
				Seal									
				01 NBR									
				02 FKM									
				04 PTFE									
				06 EPDN	1								

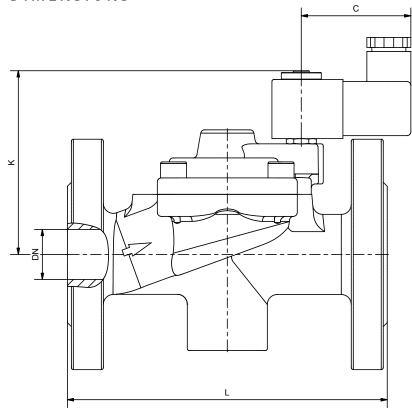
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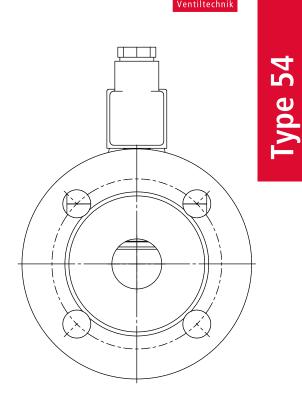
TECHNICAL FEATURES

					max. pres	ssure			
DN	Seat Ø mm	Kv-value m³/h	Standard type			ATEX 🐼			
				.182	.032*	.148	.178		
15	15	5,0	.5401/0.01/	0,5-40 (0,5-16)	0,5-40 (0,5-16)	0,5-40 (0,5-16)	0,5-12		
20	20	11,0	.5402/0.01/	0,5-40 (0,5-16)	0,5-40 (0,5-16)	0,5-40 (0,5-16)	0,5-12		
25	25	13,0	.5403/0.01/	0,5-40 (0,5-16)	0,5-40 (0,5-16)	0,5-40 (0,5-16)	0,5-12		
32	32	28,0	.5404/0.01/	-	0,5-40 (0,5-16)	0,5-40 (0,5-16)	-		
40	40	30,0	.5405/0.01/	-	0,5-40 (0,5-16)	0,5-40 (0,5-16)	-		
50	50	46,0	.5406/0.01/	-	0,5-40 (0,5-16)	0,5-40 (0,5-16)	-		

The flow rate mentioned in the table applies to the *marked coil. Specifications in () are valid for EN-GJL-250 housing with PN16.







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Coil		.182			.032					.148					
Туре	5401	5402	5403	5401	5402	5403	5404	5405	5406	5401	5402	5403	5404	5405	5406
DN	15	20	25	15	20	25	32	40	50	15	20	25	32	40	50
С	55	55	55	59	59	59	59	59	59	54	54	54	54	54	54
К	80	92	92	91	106	106	139	139	152	91	106	106	139	139	152
L	130	150	160	130	150	160	180	200	230	130	150	160	180	200	230
kg	2,5	3,6	4,2	2,5	3,6	4,2	7	7,5	10,7	2,5	3,6	4,2	7	7,5	10,2
Flange dime				DIN 3202	2-F1										

*Differing dimension "C" for ATEX-coils



- 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 +40 °C. This specification applies for the maximum allowable operating pressure specified in the data sheet of the corresponding valve 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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State: 11/2015, MK-MG, Version 2.







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

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	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 Image .322 = 30 Watt .328 = 24 Watt Image .242 = 46 Watt .248 = 30 Watt Image .272 = 100 Watt .278 = 47 Watt Image					
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					

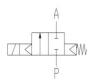
VALVE FEATURES

- 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



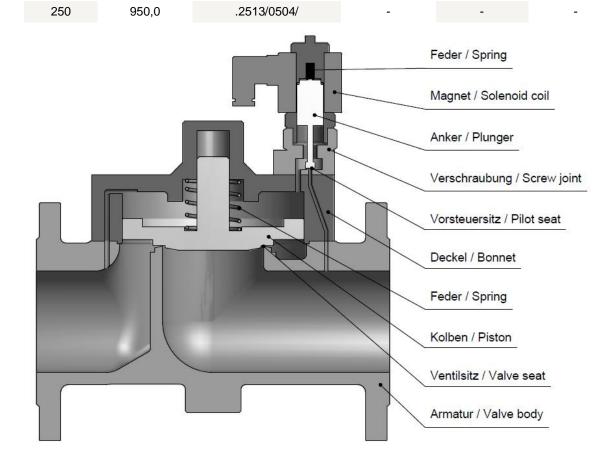


CERTIFICATES



Type		Co	nn.		Hou	ising	s	Seal			Coil				0	Option	
2	5	0	9	1	0	5	0	4	1		3	2	2	Ē	Н	Α	
	07 08 09 10 11 12 13	DN 65 DN80 DN10 DN12 DN15 DN20 DN25	0 5 0		05	GP24	0 GH 04	PTFE		<mark>2</mark> 8	Explo acc. t	lard IP sion p o dire 34/EU	roof ctive				

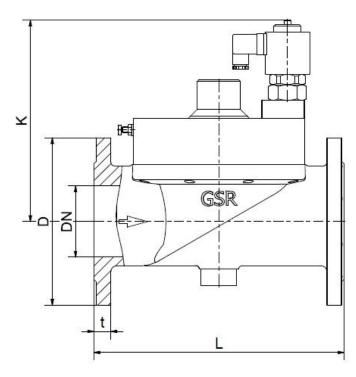


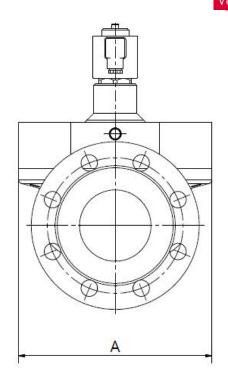


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2-16





Coil	.802 /	.808*	.322 / .328*	.242	/ .248	.272	/ .278
Туре	2507	2508	2509	2510	2511	2512	21513
DN	65	80	100	125	150	200	250
А	215	250	270	235	265	345	415
С	70	70	77	93	93	107	107
D	185	200	235	270	300	340	450
К	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
*Difforing dimo	noion "C" for AT						

*Differing dimension "C" for ATEX-coils

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- 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.

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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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