

## Technical Data Sheet Type 37TH

CONTROLS SUPPLY CHAIN VALVES ACTUATORS INSTRUMENTATIONS

2/2-way solenoid valve

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NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Force-pilot operated piston design valve. No differential pressure is necessary for operation. In standard (NC) the valve closes with spring power.

Solenoid valve for extended temperature range

# **TECHNICAL SPECIFICATIONS**

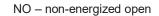
Type of control	Force-pilot operated				
Design	Piston design				
Connection	Flanges DN15 - DN50 EN 1092-1 Form B1/B2				
Installation	With actuator upright				
Pressure	0 - 40 bar (see table on page 2)				
Medium	Clean, neutral, gaseous and liquid media				
max. viscosity	22 mm²/s				
Temperature range	Medium: -40 °C up to +200 °C Ambient: -40 °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	PTFE				
Supply voltage	AC~ 24V, 110V, 230V via external rectifier (included in delivery) DC= 12V, 24V Other supply voltages on request				
Voltage tolerance	-10% / +10%				
Power consumption	T802 = 18 Watt T322 = 21 Watt T242 = 26 Watt T272 = 60 Watt T352 = 80 Watt				
Protection class	IP65 acc. to DIN 60529				
Duty factor	100% ED-VDE 0580				
Connection type	Terminal box				

## **VALVE FEATURES**

- For media temperatures up to +200 °C
- No pressure difference is required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

## **FUNCTION**

NC - non energized closed







# CERTIFICATES



#### **ORDERING SYSTEM**



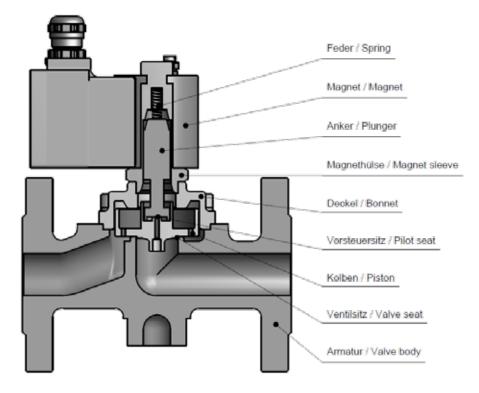
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# **TECHNICAL FEATURES**

				max. pressure for coils				
DN	Seat Ø mm	Kv-value m³/h	Standard type	T802	T322	T242	T272	T352
15	15	5,0	.3701/04/	0-20	0-40	-	-	-
20	20	11,0	.3702/04/	0-13	0-25	0-40	-	-
25	25	13,0	.3703/04/	0-13	0-25	0-40	-	-
32	32	28,0	.3704/04/	-	0-12	0-20	0-40	-
40	40	30,0	.3705/04/	-	0-12	0-20	0-40	-
50	50	46,0	.3706/04/	-	-	0-6	0-25	0-40

The flow rate mentioned in the table applies to the strongest coil. Max. pressure 0-13 b ar with EN-GJL-250 body PN16



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# DIMENSIONS

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B 0

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kg

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7,5

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7,5

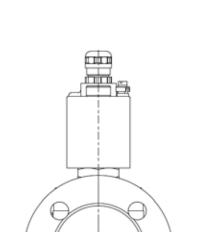
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Coil		T802				T322			
Туре	3701	3702	3703	3701	3702	3703	3704	3705	
DN	15	20	25	15	20	25	32	40	
С	76	76	76	83	83	83	83	83	
D	95	105	115	95	105	115	140	150	
К	115	130	150	150	145	145	160	160	
L	130	150	160	130	150	160	180	200	
t	14	16	16	14	16	16	16	16	
kg	3,5	4,5	5,5	3,0	5,0	5,5	8,0	8,5	
Coil			T242				T272		T352
Туре	3702	3703	3704	3705	3706	3704	3705	3706	3706
DN	20	25	32	40	50	32	40	50	50
С	93	93	93	93	93	107	107	107	127
D	105	115	140	150	165	140	150	165	165
К	185	190	200	200	200	230	230	240	319
L	150	160	180	200	230	180	200	230	230

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#### 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 +180 °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. +180 °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  $^{\circ}$ 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  $^{\circ}$ C.

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