



## Technical Data Sheet Type 51TH

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

Pilot operated piston design. 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 extended temperature range

### TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, pressure difference is required
Design	Piston design
Connection	Threaded G1/4 - G2 DIN ISO 228/1 (BSP) Other connections like NPT on request
Installation	Preferable with actuator upright
Pressure	0,5 - 40 bar (see table page 2)
Medium	Clean, neutral, gaseous and liquid medium
Viscosity	22 mm <sup>2</sup> /s
Temperature range	Medium: -20 °C bis +180 °C Ambient: -20 °C bis +50 °C  In consideration of the restrictions described on page 4
Body material	Brass 2.0402 Stainless steel 1.4581
Metallic inner parts	Brass and stainless steel
Sealing	PTFE
Supply voltage	AC~ 230V DC= 24V
Voltage tolerance	-10% / +10%
Power consumption	D182 = 6,8 Watt D012 = 18 Watt
Protection class	IP65 nach DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	Plug

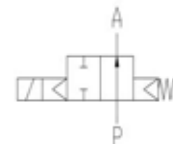
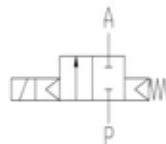
### VALVE FEATURES

- For media temperatures up to +180 °C
- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

### FUNCTION

NC – non energized closed

NO – non-energized open



### CERTIFICATES



### ORDERING SYSTEM

Valve type				Coil system			Valve options									
5	1	2	3	/	1	0	0	4	/	D	1	8	2	-	T	H
<b>Connection</b> 21 G 1/4 22 G 3/8 23 G 1/2 24 G 3/4 25 G 1 26 G 1 1/4 27 G 1 1/2 28 G 2				<b>Body material</b> 10 Brass 2.0402 08 Stainless steel 1.4581			<b>Seal material</b> 04 PTFE		<b>D</b> Temperature design <b>TM</b> +140 °C							



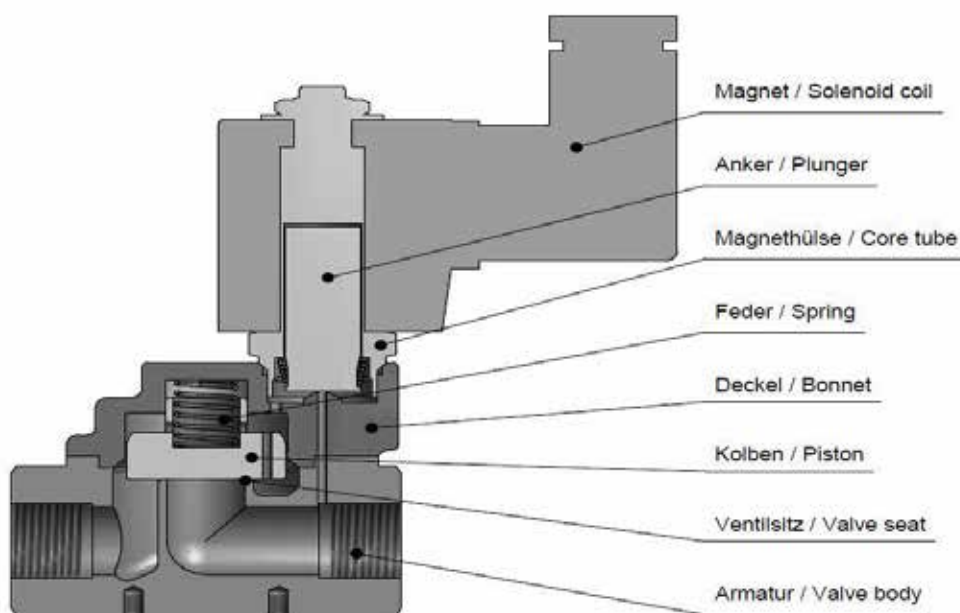
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## TECHNICAL FEATURES

G	Seat mm	Kv-value m³/h	Standard type	max. pressure for coils <b>NC</b>	
				D182	D012
1/4	13,5	1,8	.5121/.../.....-TH	0,5-16	0,5-40
3/8	13,5	4,0	.5122/.../.....-TH	0,5-16	0,5-40
1/2	13,5	4,5	.5123/.../.....-TH	0,5-16	0,5-40
3/4	27,5	11,5	.5124/.../.....-TH	0,5-16	0,5-40
1	27,5	13,0	.5125/.../.....-TH	0,5-16	0,5-40
1 1/4	40	29,0	.5126/.../.....-TH	-	0,5-30
1 1/2	40	33,0	.5127/.../.....-TH	-	0,5-30
2	50	49,0	.5128/.../.....-TH	-	0,5-30

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

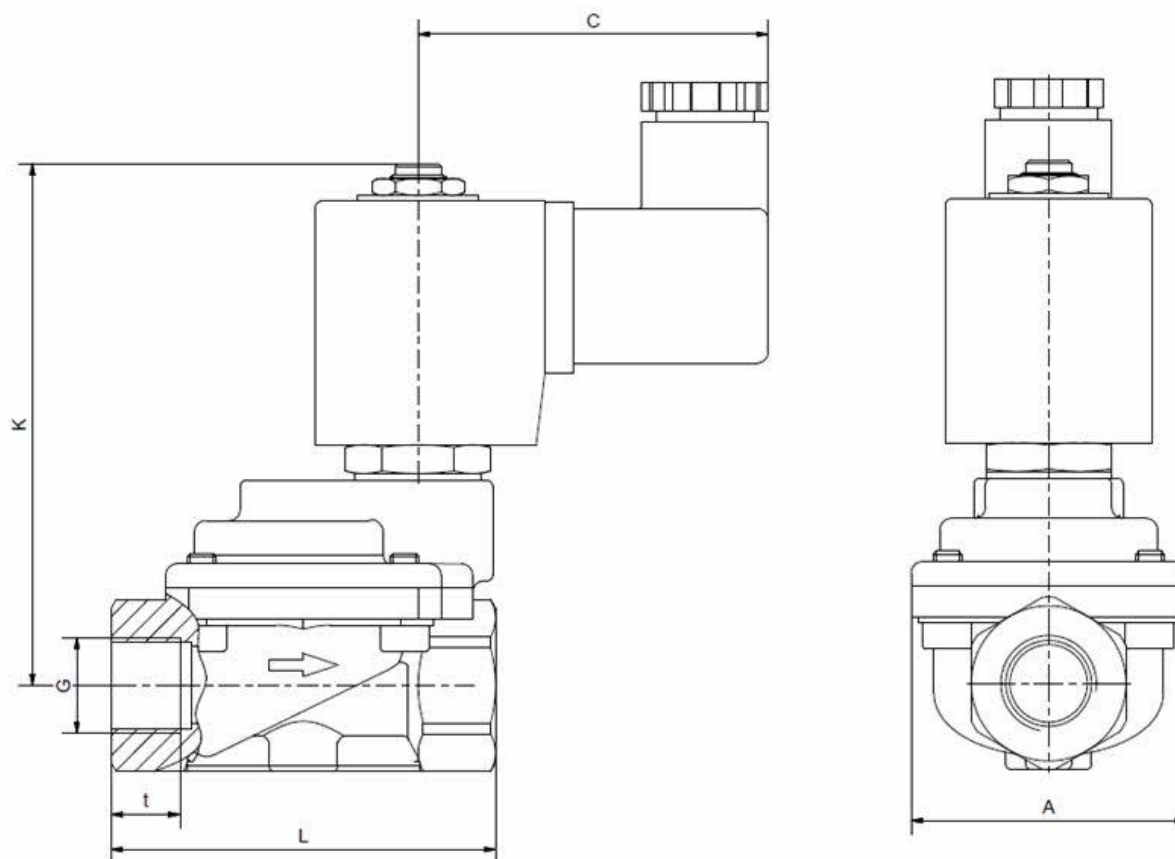
G	Seat mm	Kv-value m³/h	Standard type	max. pressure for coils <b>NO</b>	
				D182	D012
1/4	13,5	1,8	.5121/.../.....-TH	-	0,5-40
3/8	13,5	4,0	.5122/.../.....-TH	-	0,5-40
1/2	13,5	4,5	.5123/.../.....-TH	-	0,5-40
3/4	27,5	11,5	.5124/.../.....-TH	-	0,5-40
1	27,5	13,0	.5125/.../.....-TH	-	0,5-40
1 1/4	40	29,0	.5126/.../.....-TH	-	0,5-16
1 1/2	40	33,0	.5127/.../.....-TH	-	0,5-16
2	50	49,0	.5128/.../.....-TH	-	0,5-16





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## DIMENSIONS



Coil	D182				
Type	5121	5122	5123	5124	5125
G	1/4	3/8	1/2	3/4	1
A	48	48	48	70	70
C	51	51	51	51	51
K	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

Coil	D012							
Type	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
A	48	48	48	70	70	96	96	112
C	61	61	61	61	61	61	61	61
K	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