2/2-way direct acting solenoid valve NC



A.u.K. Müller

Solenoid valves Control valves Special valves and systems

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- Direct acting
- Compact design
- Long term performance capability
- Suitable for food and hot water appliances
- Works from zero pressure
- Easy to assemble and service
- Coil change without opening of medium circuit, coil can be mounted 4 x 90°
- High operating safety by the use of high quality materials and 100% final testing of the products

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Description

2/2-way solenoid valve of several nominal diameters for use with neutral gases and liquids. This valve is direct acting and normally closed (NC).

Valves of this design are single chamber straight through valves, with threaded tube clamp or push-fit connections at outlet and inlet.

The valve body is made of PPSU, which is suitable for hot water applications.

This valve is designed for continuous operation (duty cycle 100%).

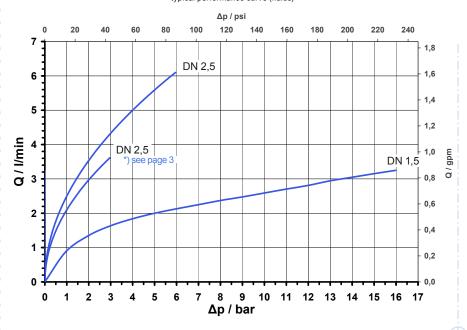
Electrical operating safety is achieved by using high quality materials of insulation class F.

Тур	DN
18.003	1,5
18.005	2,5

Applications

- Saturated steam applications up to 143° C
- Steam cleaners and ironing machines
- Hot / cold drink dispensers (espresso makers)
- Medical equipment
- Industrial applications

typical performance curve (fluids)

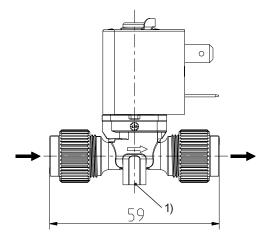


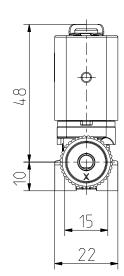
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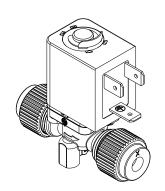
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1) Fixing possibility for self tapping screw Ø 3,8 x 9

Materials			
Valve body	PPSU		
Plunger guide	Stainless steel		
Plunger	Stainless steel		
Seal	EPDM		
Coil coating PA, EP or PPS			



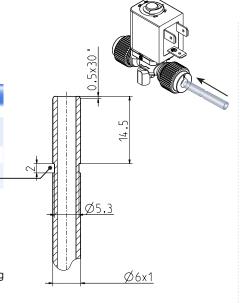
Tec	hnical D	ata				
Туре	Solenoid valve					
Construction	2/2-way single chamber straight valve, direct acting					
Function	NC (normally	NC (normally closed)				
Fitting position	Any					
Media	Neutral gases, cold and heated potable water and physically and chemically similar media					
T-Medium Saturated steam	98 143 (3bar)	°C max. °C max.				
T-Ambient	60	°C max.				
DN						
Cv-value	See page 3					
p-Operating						
Coil type	MS.037	MS.037				
Nominal voltage	24 V DC					
	Other voltage	es on request				
Voltage tolerance	+10% -15%					
Duty cycle	100%					
Nominal power	8,3 W					
Protection Type	IP 65					
Coil connections	Plug socket flat tap 6,3 x 0,8 mm model B-industry form					
Insulation class	F according to EN 60730					
Protection class	I	according to EN 60730				

(for incorporation in class I)

Options			
Tube material	Dimension outer Ø x wall thickness		
Flexible plastic tubes	6 x 1		
Metal tubes	6 x 1	to be equipped with special cut-in by user	

Other orifice sizes (DN) are in preparation

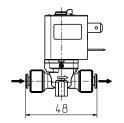
PPSU valve bodies may not come in contact with: acetone, ethers, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, acids and oxidizing anaerobic adhesives.

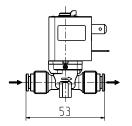


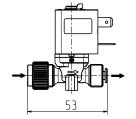


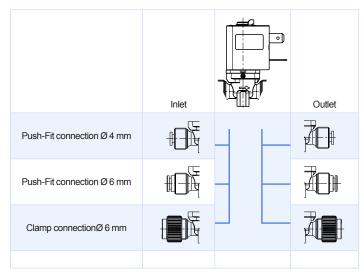
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Alternative Connections









In and outlet variants are combinable.

Each in- and outlet can be configured

ID	DN	Cv-value	Inlet Clamp connection	Inlet Push-fit connection	Outlet Clamp connection	Outlet Push-fit connection	p-Operating	
	mm	l/min	Ømm	Ømm	Ømm	Ø mm	bar in flow direction	bar against flow direction
**			6	-	6	-	0 - 16,0	0 - 12,0
087712 ***		5 0,9	-	4	-	4		
087704	1,5		6	-	-	4		
087703			-	6	-	6		
087714 ***			-	6	-	4		
**		2,1	-	6	-	4		
087702			-	6	-	6	0 - 3,0*)	0 50
**	2.5		-	4	-	4	0 - 3,0)	0 - 5,0
087701	2,5		6	-	6	-		
087706		2,5	-	6	-	6	0 - 6,0	0
087700			6	-	6	-	0 - 0,0	U

^{*)} with saturated steam up to 143°C (refer to performance curve on page 1)
** on request
*** Coil contacts pointing to inlet

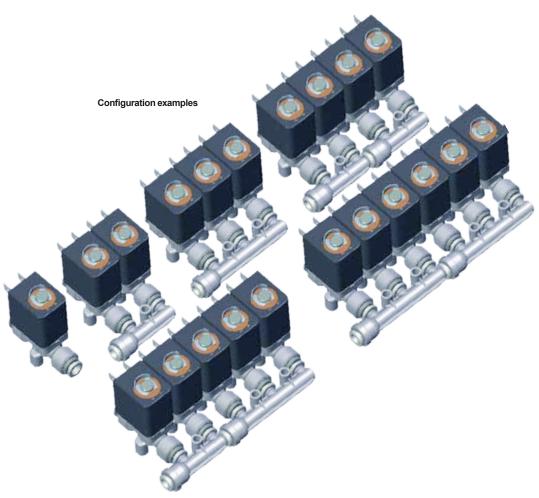
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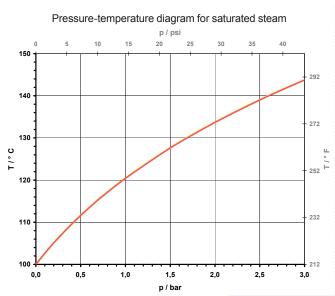
Only four manifold versions using push-fit connection 6 mm Ø of the valve allow to configure any combination of bank valve. No tools are necessary.

Manifold system for Push-fit connection Ø6 mm



In addition to hot water the system is also suitable for saturated steam applications up to a temperature of 143 $^{\circ}$ C.

A fixed relation between pressure and temperature exists for saturated steam, as is shown in the adjacent diagram.



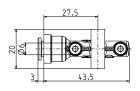


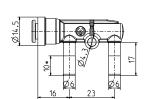
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Manifold components for Push-fit connection 6 mm Ø

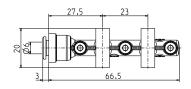
Flow direction (->) also reversed possible.

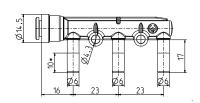


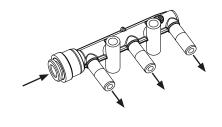




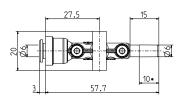
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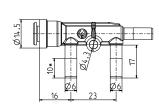


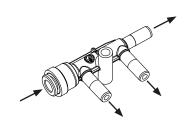




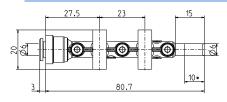
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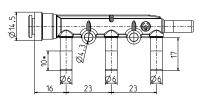






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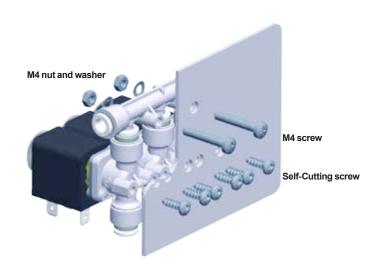
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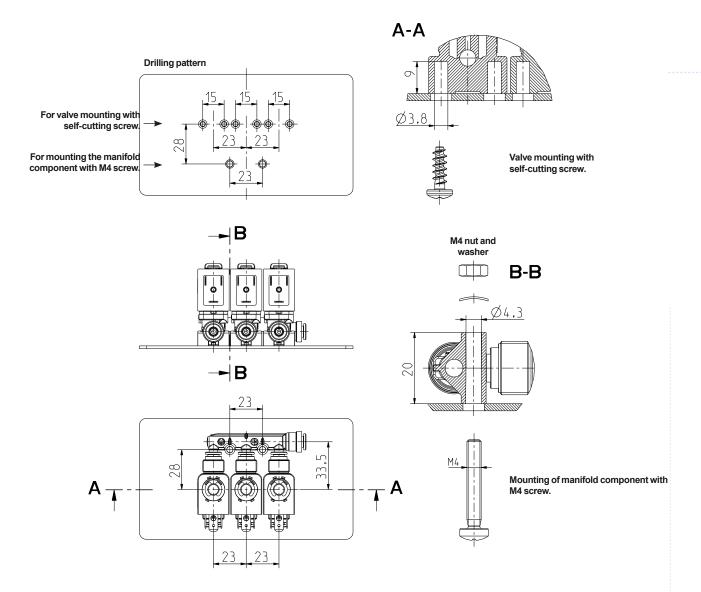
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Example of mounting for valves and manifold components on a mounting plate.





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