



technische import

Productinformatie



A.U.K. MÜLLER GMBH & CO. KG

BAFA.NL

2/2-way direct acting solenoid valves NC



A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 18.00x.000



Characteristics

- 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

Applications

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

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.

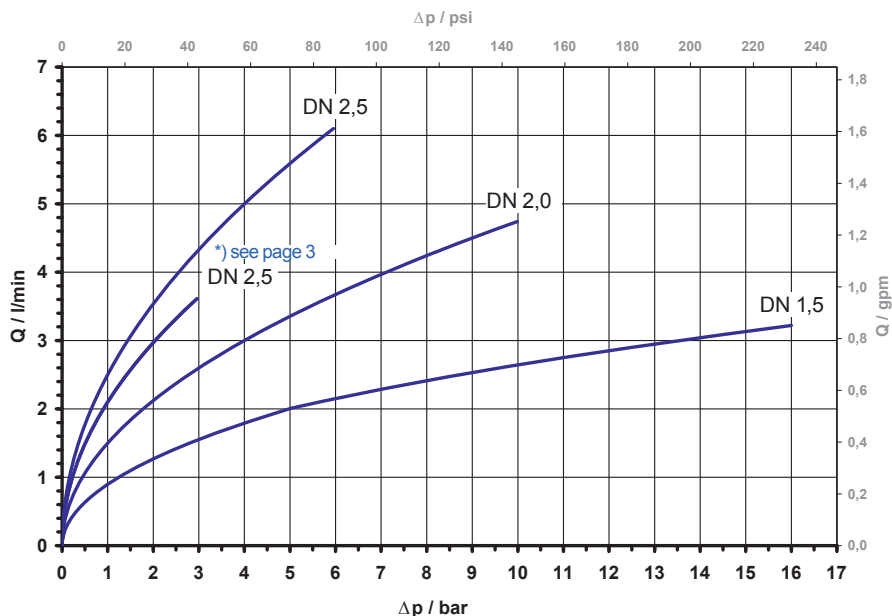
The valve body is made of PPSU, which is suitable for hot water applications.

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

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

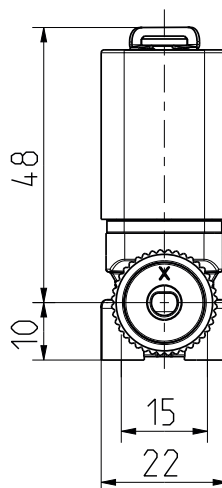
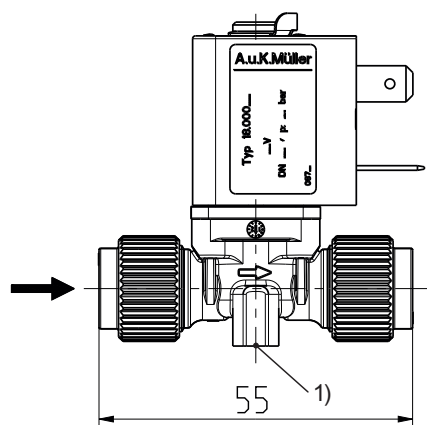
Type	DN
18.003.000	1,5
18.004.000	2,0
18.005.000	2,5

typical performance curve





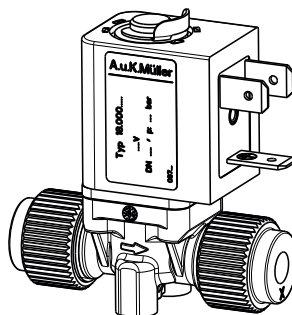
Series 18.00x.000



1) Fixing possibility for self tapping screw $\varnothing 3,8 \times 9$

Materials

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



Technical Data

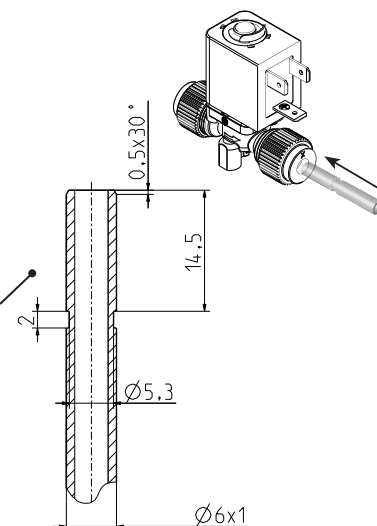
Type	Solenoid valve		
Construction	2/2-way single chamber straight valve, direct acting		
Function	NC (normally closed)		
Fitting position	Any		
Media	Neutral gases, cold and heated potable water and physically and chemically similar media		
T-Medium	98	°C max.	
Saturated steam	143 (3bar)	°C max.	
T-Ambient	60	°C max.	
DN			
Cv-value	See page 3		
p-Operating			
Coil type	MS.037		
Nominal voltage	24	V DC	
	Other voltages on request		
Voltage tolerance	+10% -15%		
Duty cycle	100%		
Saturated steam			
Coil 8,3 W	50% (ON:0,5 min OFF:0,5 min)		
Coil 6,0 W	100%		
Nominal power	8,3 W		
	6,0 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 \varnothing x wall thickness	
Flexible plastic tubes	6 x 1	
Metal tubes	6 x 1	special groove to be cut by user

Other orifice sizes (DN) are in preparation

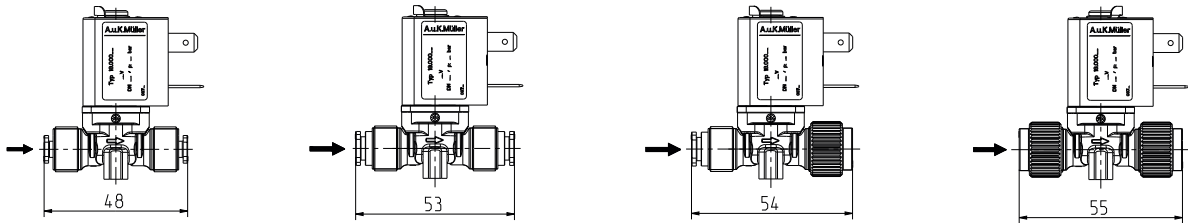
⚠ PPSU valve bodies may not come in contact with: acetone, ethers, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, acids and oxidizing anaerobic adhesives.





Series 18.00x.000

Alternative Connections



Please refer to our Fitsys 18 datasheet for additional valve connection options.

Type				
		Inlet		Outlet
	G	Push-Fit connection Ø 4 mm		
	F	Push-Fit connection Ø 6 mm		
	E	Clamp connection Ø 6 mm		

Inlet and outlet connections can be combined.

Each inlet and outlet can be configured

ID	DN	Cv-value	Inlet	Outlet	p-Operating		Coil
	mm	l/min	Ø mm	Ø mm	bar in flow direction	bar against flow direction	Power consumption W
087716	1,5	0,9	E	E	0 - 16,0	0 - 12,0	8.3
087712 ***			G	G			
087704			E	G			
087717			F	F			
087714 ***			F	G			
**	2,0	1,5	E	E	0 - 6,0	0 - 3,0	8.3
**			F	F			
087724			G	G			
087702	2,5	2,1	F	F	0 - 3,0 *)	0 - 5,0	8.3
087701			E	E		0 - 1.5	6.0
**			F	F			
087706		2,5	F	F	0 - 6,0	0	8.3
087700			E	E			

*) for saturated steam up to 143°C (refer to performance curve for fluids on page 1)

** on request

*** Coil contacts pointing to inlet

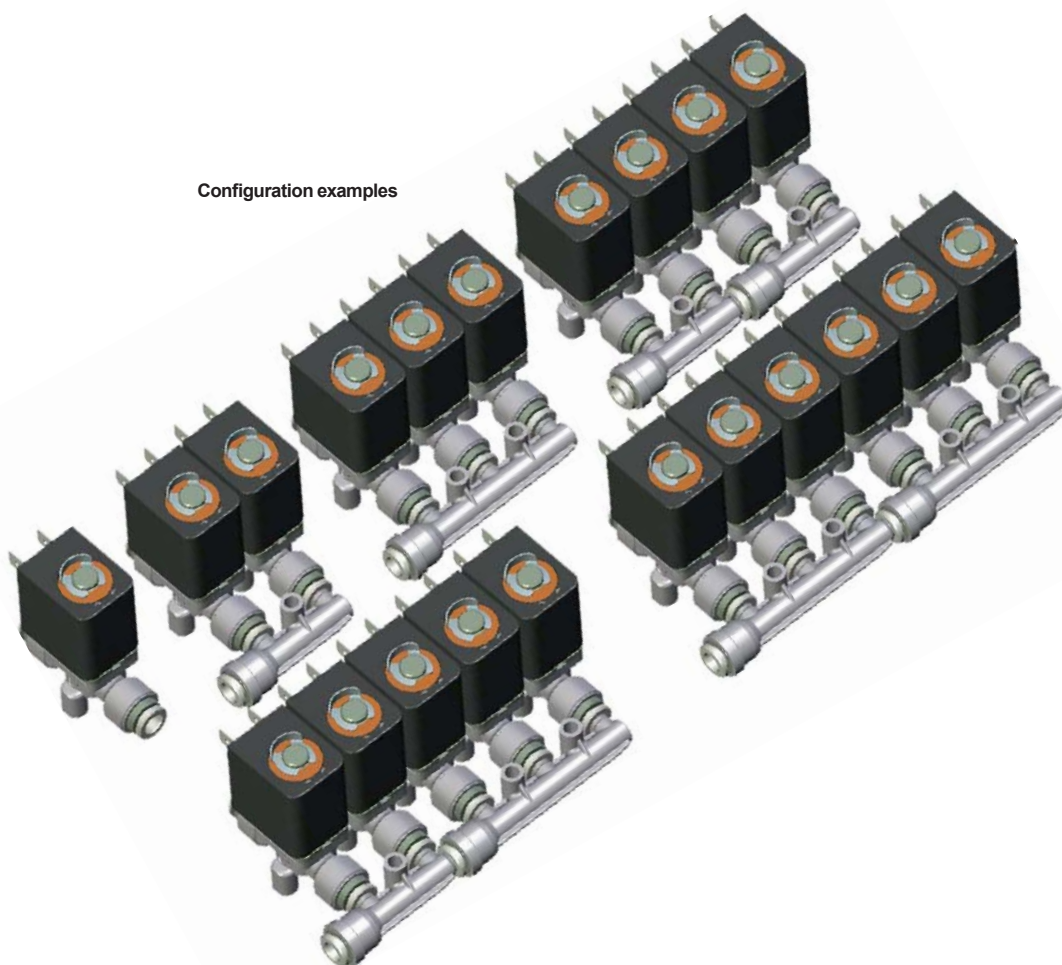


Series 18.00x.000

Just four different 6mm Ø push fit manifold pieces enable unlimited bank valve combinations.

Manifold system with Ø6 mm Push-fit connection

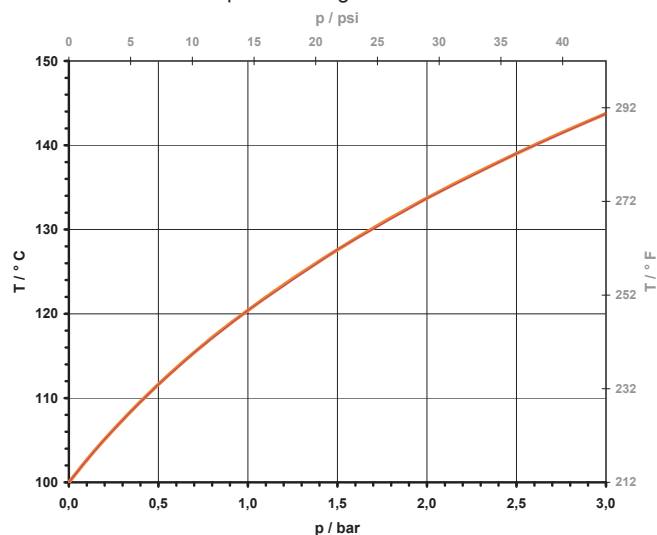
Configuration examples



In addition to hot water the system is also suitable for saturated steam applications up to a temperature of 143° C.

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

Pressure-temperature diagram for saturated steam

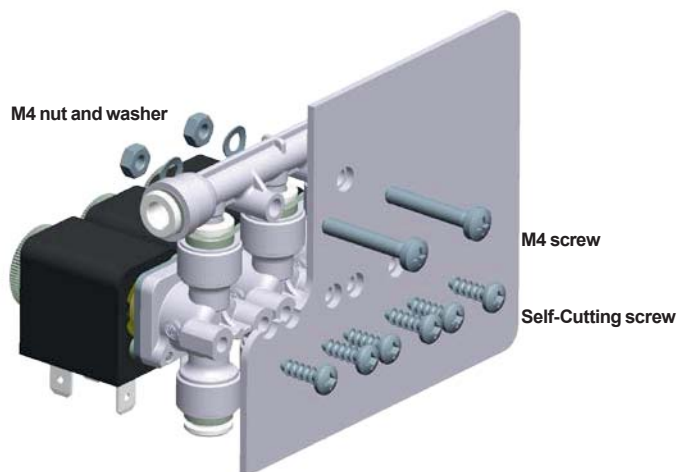




Series 18.00x.000

Manifold system with Ø6 mm Push-fit connection

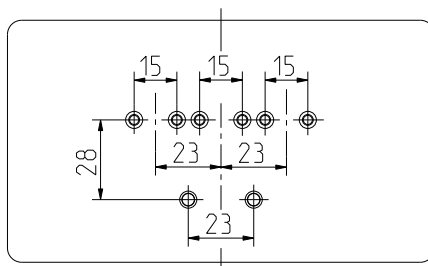
Type	Figures		ID
	* Area of o-ring seal	Flow direction (→) can also be reversed.	
MC-F.C.C			008948
MC-F.C.C.C			008949
MO-F.C.C.C			008946
MO-F.C.C.C.C			008947



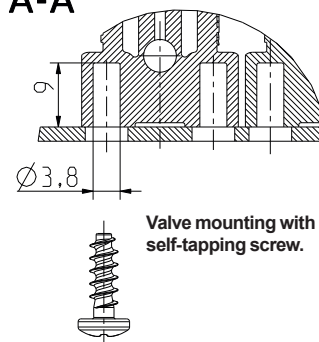
Drilling template

For valve mounting with self-cutting screw. →

For mounting the manifold component with M4 screw. →

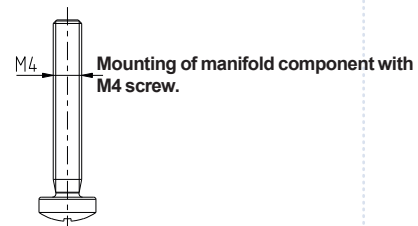
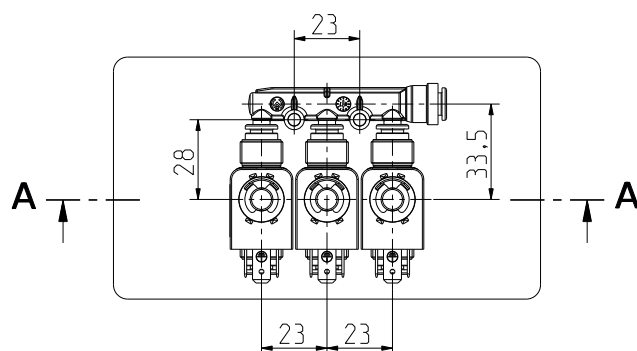
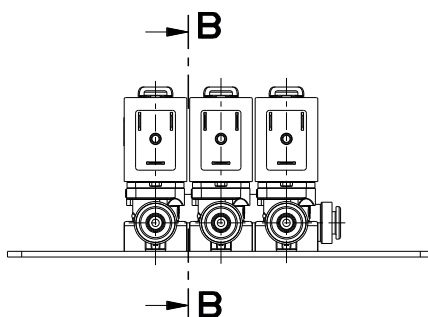
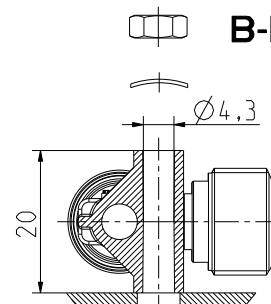


A-A



M4 nut and washer

B-B





technische import

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