Direct Acting 3/2-Way Solenoid Valve, NC Block-bar Capable

Product Information

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 60.00x.100



Characteristics

- Bayable valve modules for flexible configuration of block strips
- Media-separated
- Directly controlled
- Compact design
- Can be used without media pressure
- High operating safety through the use of high quality materials and 100% final testing of the products
- Long term performance capability

Description

The valve housings of the 60.00x.100 series in modular design allow the space-saving assembly of several valves as a valve manifold. The block strips are mounted without tools by means of a plug-in rotary assembly. The valves are secured to each other by a latching function.

The direct acting 3/2-way solenoid valves are 1-chamber angle valves and equipped with 6 mm push-in connections.

Depending on the water path in the valve, the nominal sizes differ in DN 1.3 or DN 2.5.

The valves are designed for continuous operation (ED 100%).

The electrical operational safety is guaranteed by the electrical insulation coordination, which corresponds to the VDE 110 regulations.

The manufacturing process includes a 100% electrical safety test in accordance with the VDE 0631 Part 1000 regulations.

Applications

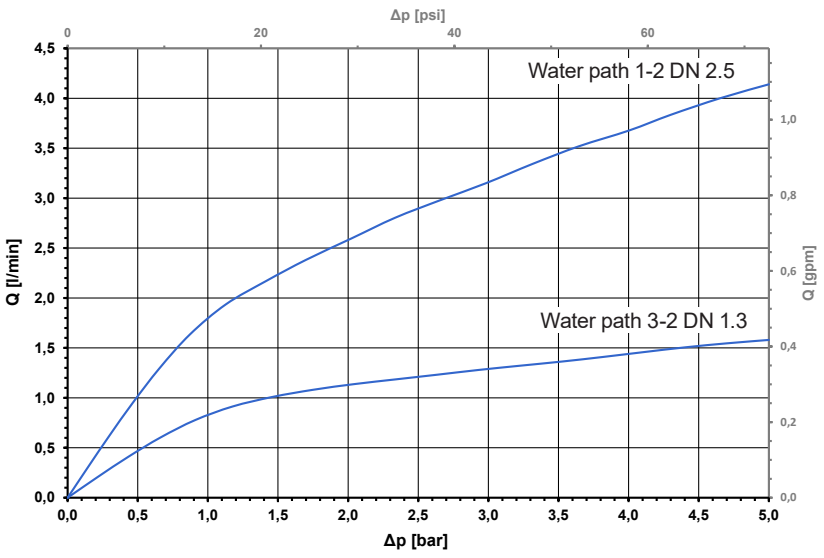
- Hot / cold drink dispensers (Espresso machines)
- Medical equipment
- Industrial appliances

Possible approvals

Approved versions available on request:

- KTW-BWGL
- Others on request

Typical Performance Curve

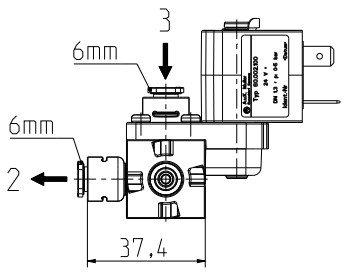


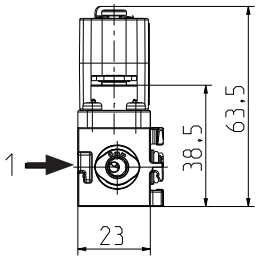
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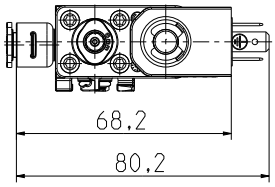
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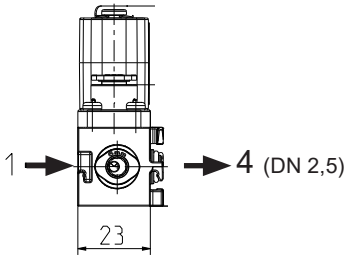
Series 60.00x.100





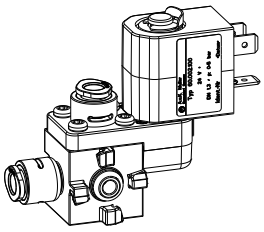


With block connector



Materials

Valve body	PA 12 PPSU on request PPP on request
Plunger guide	stainless steel
Plunger and spring	stainless steel
Membrane	FKM EPDM on request
Coil coating	PET



Technical Data

Type	solenoid valve	
Construction	3/2-way single chamber angle valve, directly-controlled	
Function	NC (normally closed)	
Fitting position	any, preferably with coil upwardly	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium **PA12** **PP on request** **PPSU on request**	 5 - 40 5 - 90 5 - 98 5 - 143	 °C °C °C °C saturated steam
T-Ambient **PA12** **PP on request** **PPSU on request**	 5 - 40 5 - 60 5 - 60	 °C °C °C
DN	1,3 2,5	mm mm
p-Operating **5 - 98 °C** **5 - 143 °C** saturated steam	 0 - 5 max. 3	 bar bar
Flow factor Kv	0,8 1,7	l/min (DN 1,3) l/min (DN 2,5)
Coil type	MS 40	
Nominal voltages	12 24	V DC V DC
	other voltages on request	
Voltage tolerance	+10% -15%	
Duty cycle	100%	
Nominal power	8 W	13 VA
Protection Type	IP 00	
Coil connections	flat tabs 6,3 x 0,8 mm	
Insulation class	H	according to EN 60730
Protection class	III	according to EN 60730

Optionen

ID	Inlet		Outlet	
Connection	**1**	**3**	**2**	**4**
63610	PushFit 6mm DN 2,5	PushFit 6mm DN 1,3	PushFit 6mm DN 2,5	block connector DN 2,5
63620	PushFit 6mm DN 2,5	PushFit 6mm DN 1,3	PushFit 6mm DN 2,5	-
other connection variants on request				

Example of valve block strip



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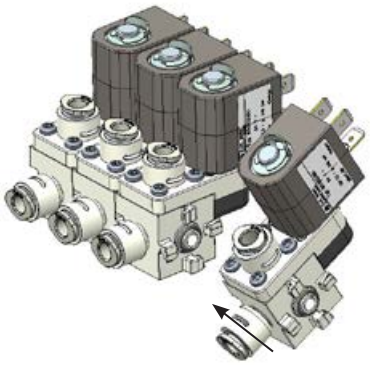
Safety instructions for assembly and disassembly the block valves:

- Explosion hazard due to electrical component!
  Never use the valve in rooms where there is a risk of explosion.
- Danger from electric shock!
  Before assembly / disassembly the valve, disconnect the system from the power supply and secure it against being switched on again. Work on the electrical system may only be carried out by a qualified specialist.
- Caution: Pressure in the pipe system!
  Depressurise the pipe system before assembly / disassembly.
- Caution Danger from hot surfaces or hot media!
  Allow the valve / medium to cool down sufficiently before assembly / disassembly.

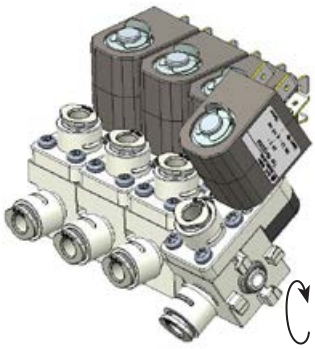
Instructions for assembly and disassembly of bank valves

The assembly and disassembly of the valve modules to a bank valve is carried out by a simple plug and rotate connection via latching hooks. The assembly is secured by a self-locking safety clip.

Assembly



Step 1: Assemble the valve modules corresponding to the preferred coil orientation, guided by the latching hooks.



Step 2: Turn valve clockwise until you feel it engage.

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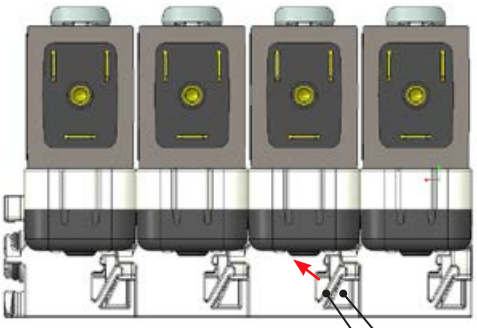
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Disassembly

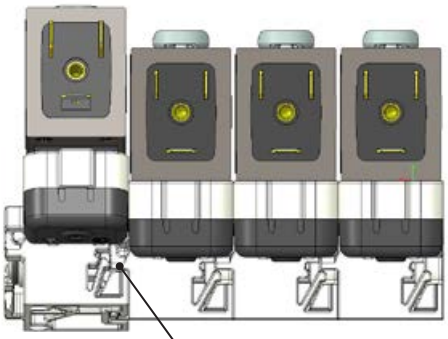
For disassembly the safety clip must be unlocked by finger pressure. Subsequently, the valve module can be detached by a rotational movement of the bank valves.



Step 1:
Finger recess
Slide safety clip to unlock



Safety clip
unlocked



Step 2:
Release latching hooks by turning the valve module counterclockwise and detach valve.

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