2/2-way Direct Acting Solenoid Valve NC, DN 3, 4, 5
Media Separated, PTFE Bellow

A. u. K. Müller

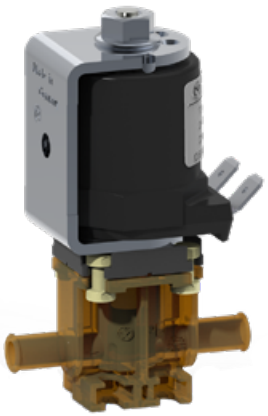
Solenoid valves
Control valves
Special valves and systems

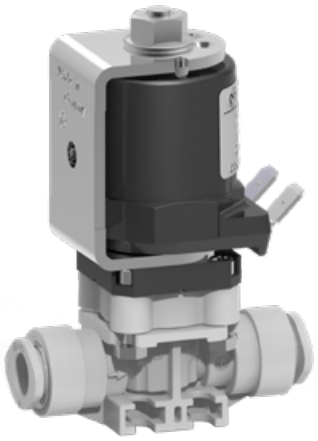
A. u. K. Müller GmbH & Co. KG
Dresdener Str. 162
D-40595 Düsseldorf/Germany

Tel.: +49(0)211-7391-0
Fax: +49(0)211-7391-281

e-mail: info@akmueller.de
Internet: www.akmueller.de

Series 43.00x.122





Characteristics

- Direct acting
- Plunger separated from medium by PTFE bellows
- Compact design
- Long term performance capability
- Suitable for food and hot water appliances
- Works from zero pressure
- Similar hydraulic performance for AC or DC types
- DC version with low noise and low wear out due to internal plunger attenuation
- Easy to assemble and service
- Coil change without opening of medium circuit, coil can be mounted 4 x 90°
- High operating safety through the use of high quality materials and 100% final testing of the product

Description

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

Valves of this design are single chamber straight through valves, with nozzles at outlet and inlet. The plunger is separated from the medium by PTFE bellows, which not only protects the plunger but also enables short switching cycles for longer periods.

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

The valve with the PPSU valve body is also suitable for use with light alkalis or acids.

This valve is designed for continuous operation (duty cycle 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

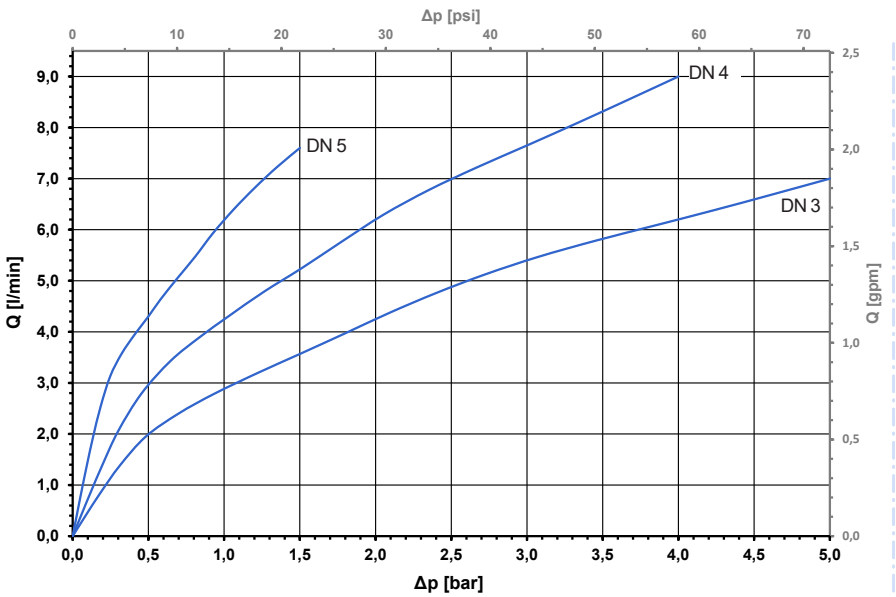
- Hot / cold drink dispensers
- Medical equipment
- Laboratory equipment
- Automatic welding equipment

Approvals

Approved versions available on request:

- KTW - BWGL
- NSF 169
- Others on request

Typical Performance Curve (fluids)

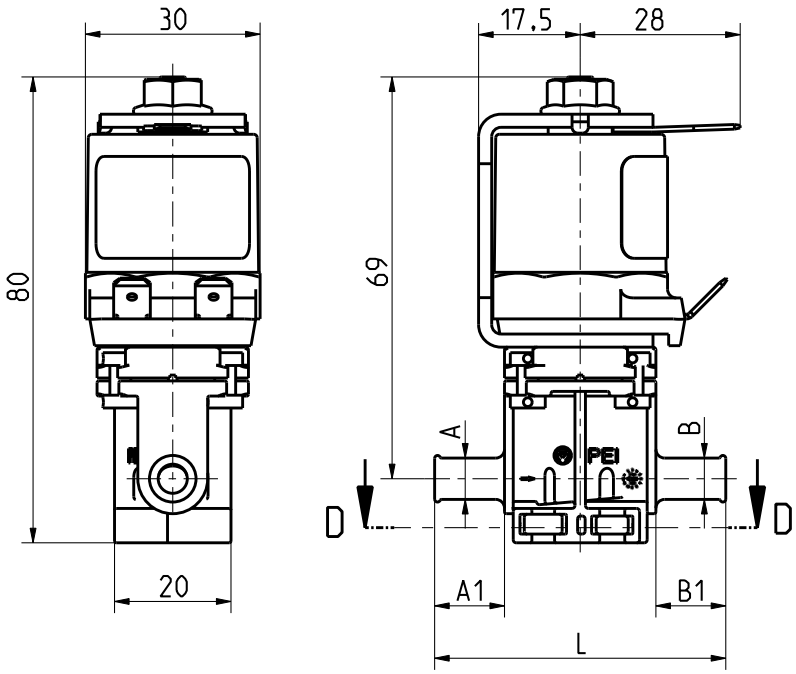


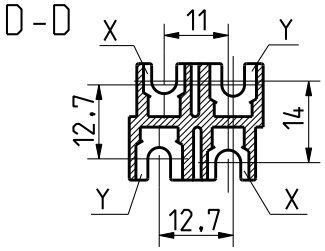
© copyright A.u.K. Müller, subject to changes without prior notice

2/2-way Direct Acting Solenoid Valve NC, DN 3, 4, 5
Media Separated, PTFE Bellow

A. u. K. Müller

Series 43.00x.122





slot for nut
X = M4 DIN EN ISO 4032
Y = N 6-32 UNC ANSI B1.1

Technical Data

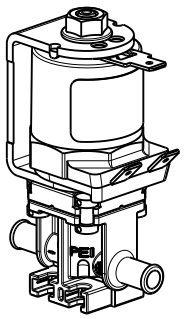
Type	solenoid valve	
Construction	2/2-way single chamber straight valve, direct acting	
Function	NC (normally closed)	
Fitting position	any	
Media	neutral gases, cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 98	°C
T-Ambient	5 - 70	°C

DN	Flow factor KV	p-Operating
mm	l/min	bar in flow direction
3	3,3	0 - 5,0
4	4,2	0 - 4,0
5	5,5	0 - 3,0

Coil type	MS 06 (MS 26 on request for ED 50 %)		
Nominal voltages	12 24 24 110 230	V DC V DC V AC V AC V AC	 50/60 Hz 50/60 Hz 50/60 Hz
	other voltages on request		
Voltage tolerance	+10% -15%		
Duty cycle	100%		
Protection type	see coils		
Coil connections	flat tabs 6,3 x 0,8 mm		
Insulation class	F	according to EN 60730	
Protection class	see coils	according to EN 60730	

Materials

Valve body	PEI other materials on request
Plunger guide	stainless steel
Plunger	stainless steel
Bellow	PTFE
Sealing	EPDM VMQ (on request) FMQ (on request)
Coil coating	PBT, PET or epoxy resin

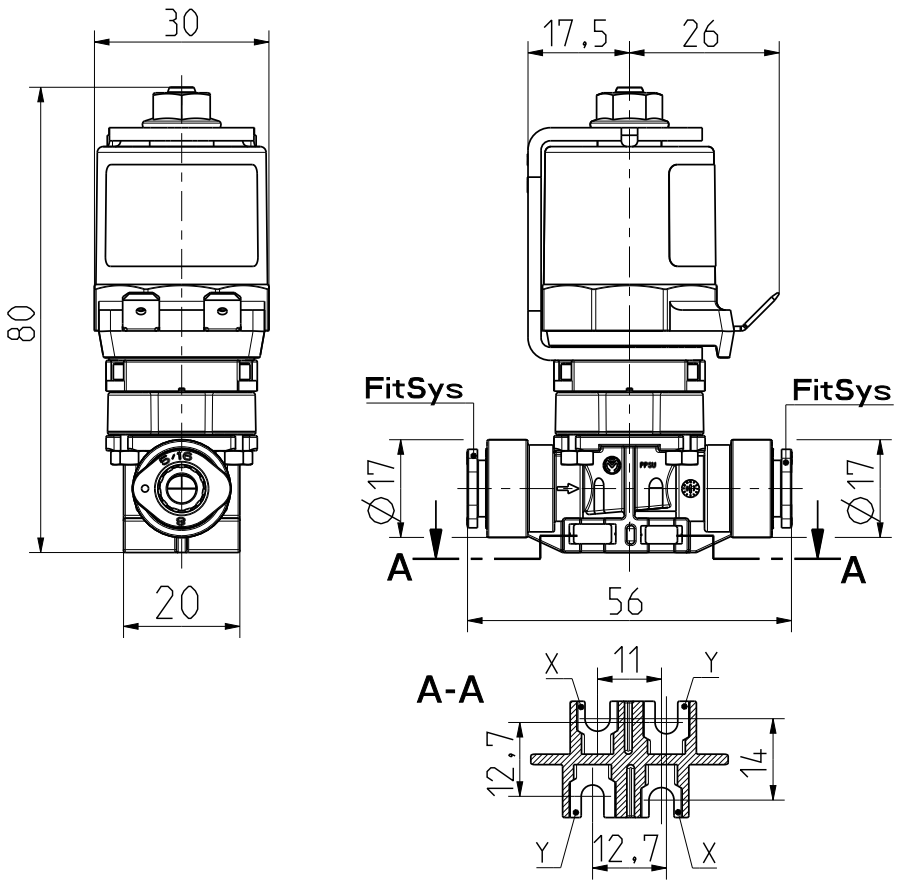


Options

ID	DN	Inlet		Outlet			Nominal voltage
		Nozzle Ø	A1	Nozzle Ø	B1	L	
059056	3	7	12	7	12	50	230V 50 Hz
059003	5	7	12	7	12	50	24 V DC
059065	5	7	12	7	12	50	12 V DC
Other variants on request							

 © copyright A.u.K. Müller, subject to changes without prior notice

Series 43.00x.122



Options

ID	DN	Inlet	Outlet	Nominal voltage
		PushFit Ø	PushFit Ø	
059074	3	8	8	24 V DC
059075	4	8	8	24 V DC

Coils

		MS 06	MS 24	MS 25	MS 26
Protection type according to ISO 206653 / DIN EN 60529		IP 00	IP 65	IP 65 / 68	IP 00
Protection class DIN EN 61140 / DIN EN 60730	I with protective conductor system	⏚	-	-	⏚
	II with reinforced insulation	▣	▣	▣	-
	III for SELV or PELV	⋔	⋔	⋔	⋔

© copyright A.u.K. Müller, subject to changes without prior notice

Solenoid valves
Control valves
Special valves and systems

A. u. K. Müller GmbH & Co. KG
Dresdener Str. 162
D-40595 Düsseldorf/Germany

Tel.: +49(0)211-7391-0
Fax: +49(0)211-7391-281

e-mail: info@akmueller.de
Internet: www.akmueller.de

 © copyright A.u.K. Müller, subject to changes without prior notice