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

Product Information

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 43.00x.102



Characteristics

- Direct acting
- Plunger separated by membrane from medium
- 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 and 100% final testing of the product

Applications

- Hot / cold drink dispensers
- Medical equipment
- Water treatment systems
- Laboratory devices

Possible approvals

Approved versions available on request:

- KTW - BWGL
- NSF 169
- Others on request

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).

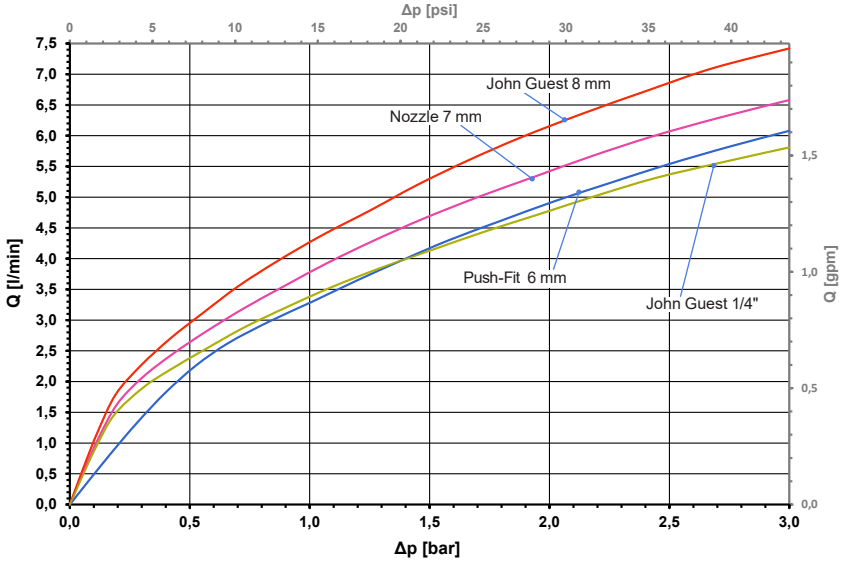
Valves of this design are single chamber straight through valves, with nozzles at outlet and inlet. The plunger is separated by a diaphragm from the medium and protected by its influence.

The use of PEI and PPSU for the valve housing allows the use in hot water. PPSU offers unlike PEI improved chemical and hydrolysis resistance.

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.

Typical Performance Curve DN 3 (Water)
(measured under laboratory conditions)



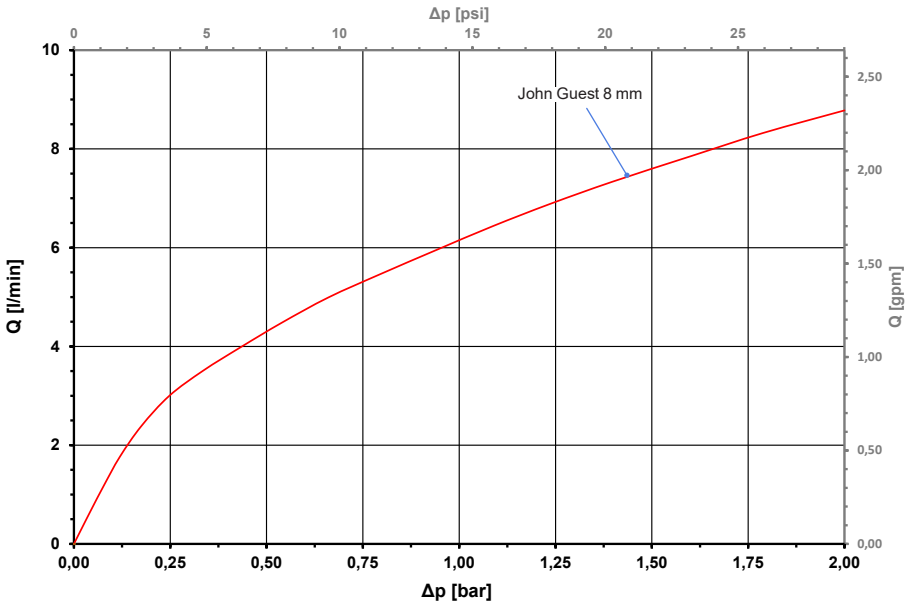
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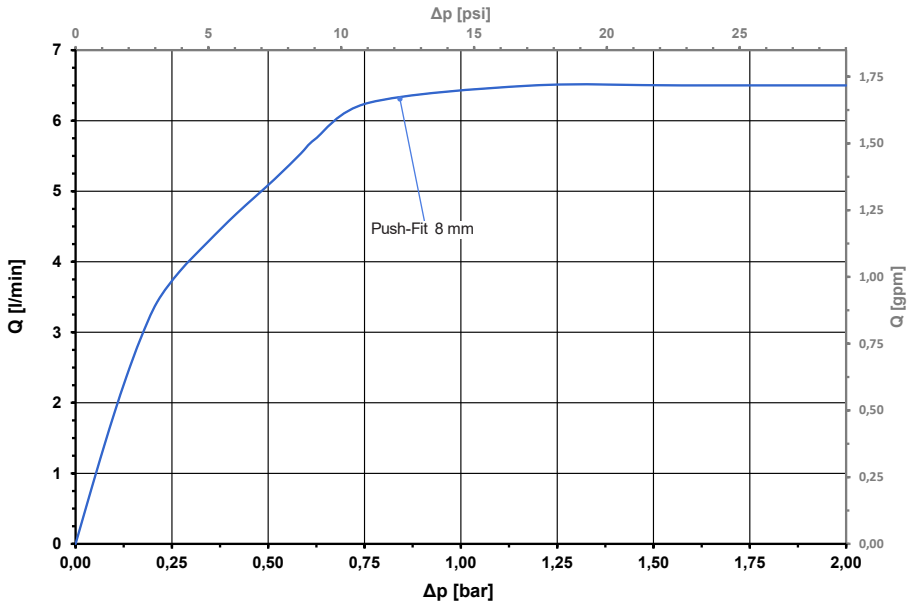
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Typical Performance Curve DN 4 (Water)
(measured under laboratory conditions)



Typical Performance Curve DN 5 (Water)
(measured under laboratory conditions)



Technical Data

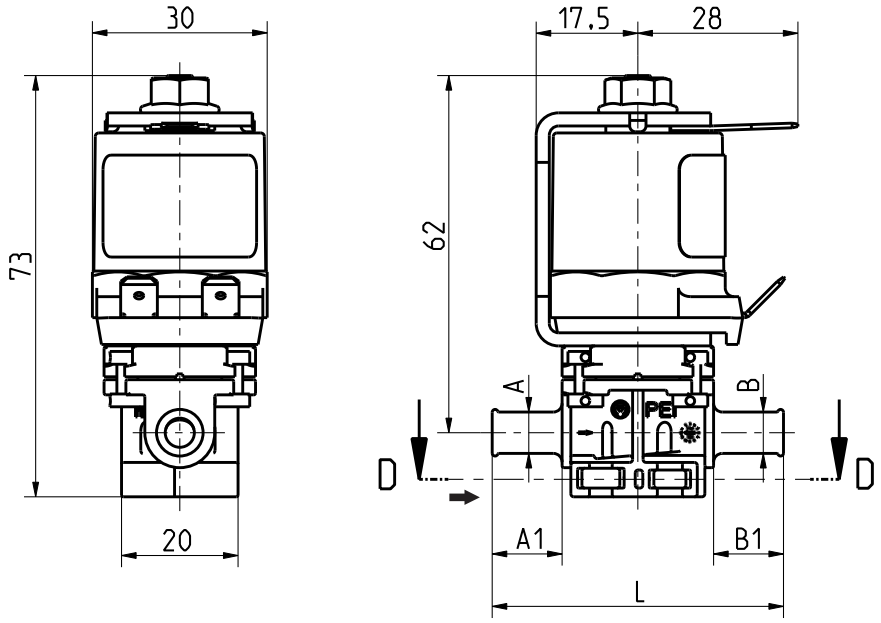
ID	DN	Connection	Flow Factor KV	p-Operating in flow direction
	Ø		l/min	bar
059057	3	Push-Fit 6 mm	3,2	0 - 3,0
059031		Nozzle 7 mm	3,7	
059050		John Guest 8 mm	4,2	
059058		John Guest 1/4"	3,3	
059032	4	John Guest 8 mm	6	0 - 2,5
059067	5	Push-Fit 8 mm	6,5	0 - 2,5

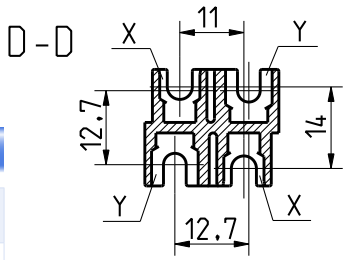
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slot for nut
X = M4 DIN EN ISO 4032
Y = N 6-32 UNC ANSI B1.1

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	
Coil type	MS 06 (MS 25 with duty cycle 50% on request)		
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 (for incorporation in class I)	

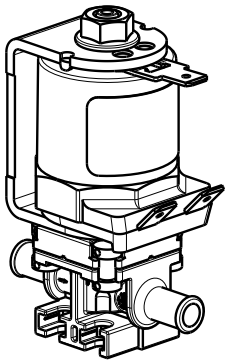
* valves with John Guest connections max. 65 °C

Materials

Valve body	PEI PPSU
Plunger guide	stainless steel
Plunger	stainless steel
Membrane	EPDM FPM (on request) VMQ (on request)
Coil coating	PBT, PET or epoxy resin

Options

	Inlet		Outlet		
	Ø	A1	Ø	B1	L
nozzle	7	12	7	12	50



Coils

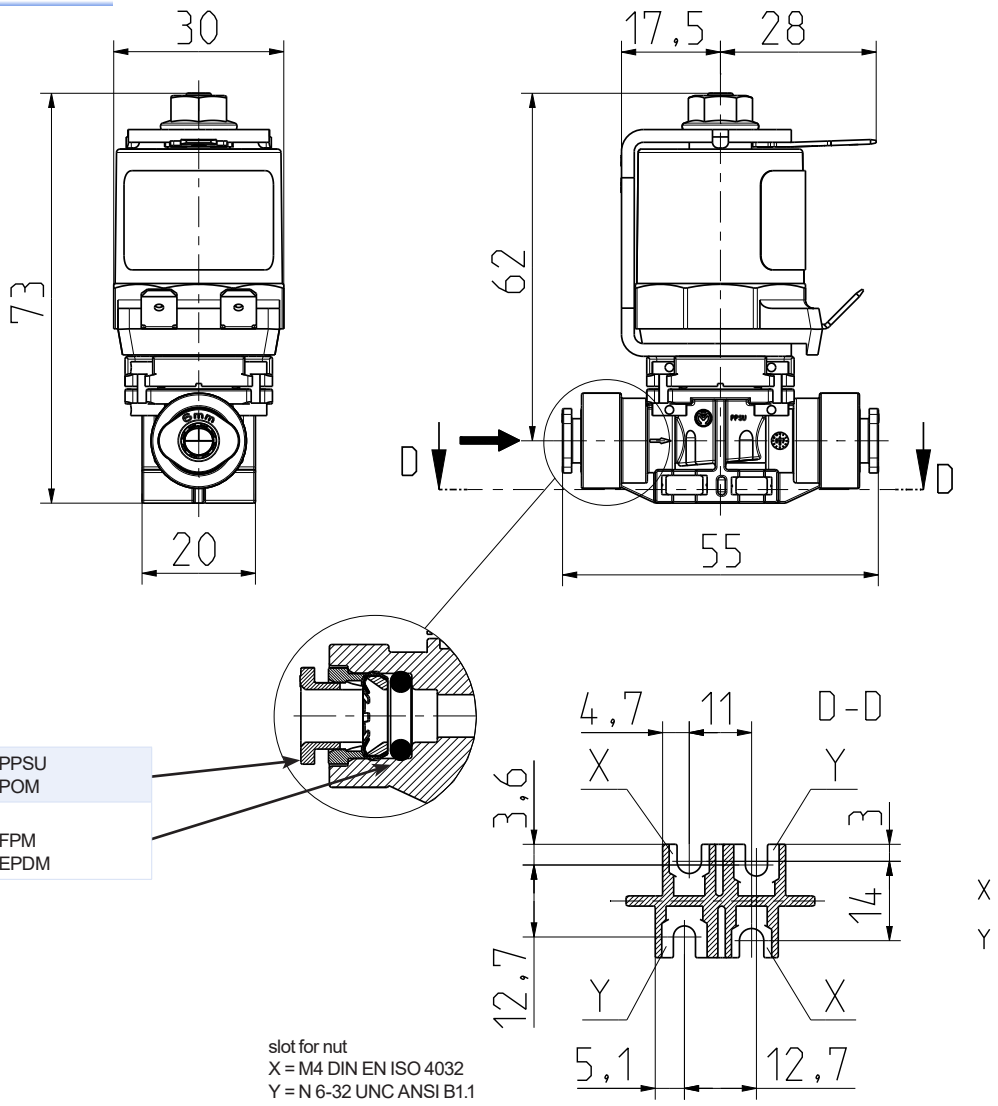
		MS 06	MS 24	MS 25	MS 26
Protection type according to ISO 206653 / DIN EN 60529		**IP 00**	**IP 65**	**IP 65 / 68**	**IP 00**
Protection class DIN EN 61140 / DIN EN 60730	**I** with protective conductor system	⏚	-	-	⏚
	II with reinforced insulation	▣	▣	▣	-
	III for SELV or PELV	⋔	⋔	⋔	⋔

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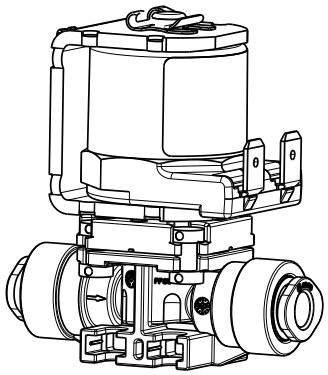
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FitSys 18 cartridge	PPSU
John Guest cartridge	POM
O-ring	
FitSys 18 cartridge	FPM
John Guest cartridge	EPDM

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



Options

	Inlet	Outlet	Length	
	Ø	Ø		
FitSys 18 cartridge	6	6	55	
John Guest cartridge				on request
Fit Sys 18 cartridge	8	8	55	on request
John Guest cartridge				
John Guest cartridge	1/4"	1/4"	55	

The FitSys 18 connections are suitable for medium and ambient temperatures of up to 98°C.

The applicability of the John Guest connection to medium- or ambient temperatures higher then 65°C is temporarily feasible, but has to be verified accordingly in the respective application.

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