

A. u. K. Müller

Solenoid valves Control valves Special valves and systems

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- Servo-controlled
- Pretested functional unit
- Suitable for the thermal as well as chemical disinfection

Characteristics

- Long term performance capability
- Internal triple pollution protection
- compact design
- Optimized flow rate Kv for DN 5 (11 I/min at 1 bar)
- Optimized water hammer characteristic by low noise emission according to EN 60730 and EN 15091 (8,5 l/min at 1 bar)
- Easy to assemble and service
- Standard connection
- Cylindrical design
- Low power consumption
- Any fitting position
- Suitable for spray and jet water
- High operating safety through the use of high quality material
- Hygiene benefit by 100% final testing with air

Series 50.005.101 bi



Description

2/2-way solenoid valve of nominal size DN 5 in cartridge design with pilot operated functional principle in bistable design for control of drinking water. The valve is particularly suitable for use in battery operated, electronically controlled sanitary fittings.

The impulse control minimizes the power consumption in order to achieve a long service life with safe valve function with common batteries.

The design outline had been reduced so far that integration in appropriate components, while using a minimum amount of space, is given.

This feature is supported by the screw cartridge design, which relieves the user in assembly, service and testing.

It also eliminates the need for the user to design a valve seat, which is otherwise required when using exclusive pilot valves.

The rate of flow of the cartridge valve has been optimized in such a way, that the nominal diameter of DN 5 fulfils the standard requirements for sanitary tap ware.

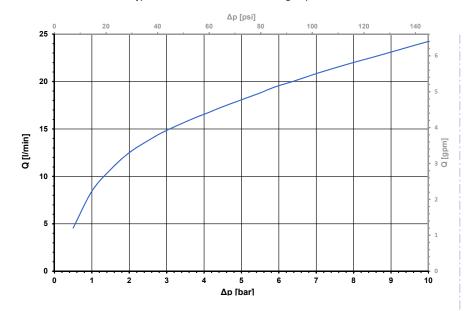
Applications

- Sanitary fittings, as electronic faucets
- Irrigation systems
- Industrial appliances

Available Approvals

- NSF 61
- **WRAS**
- ACS
- Others on request

Typical Performance Curve Water Surge Optimized



1



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(SW 21) max. 1Nm (SW 23) 0-Ring 18.77x1.78 0-Ring 6x1.5

O-Rings are to be greased before screw-in.

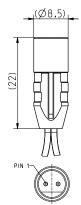
Ø22,6



Max. Torque for screw in: 1 Nm

Materials			
Valve body	PA 6/6		
Seal support	PPSU		
Plunger guide	LCP		
Plunger	stainless steel		
Membrane and sealings	EPDM		
Filter	stainless steel (in inlet)		





Male Connector	
Polarity of Connector	
strand color RED (PIN 1)	PLUS(+) at Opening pulse
strand color BLACK	MINUS(-)

Techn	ical Da	ta	
Туре	Cartridge Valve		
Construction	2/2-way screw-in, servo controlled		
Function	bi-stable, pulse controlled		
Connection	thread M22 x 2		
Fitting position	any		
Media	cold and heated potable water and physically and chemically similar media		
T-Medium	5 - 70 (5 - 80	°C °C max 10 min)	
T-Ambient	5-60	°C	
DN	5	mm	
p-Operating	0,5 - 10,0	bar	
Flow rate Kv water surge optimized flow optimized	8,5 11	I/min I/min	
Pressure surge	according to EN 60730		
Burst pressure	according to EN 60730		
Nominal voltage	6	V DC / battery	
	other Voltages on Request		
Operating voltage	4,0 - 6,9 V DC Open/Close		
	at T-Ambient 25 °C		
Pulse shape/-time +U 10 ms ON		-t	
I -U		OFF 12 ms	
Nominal Power	1,4 W	@6V	
Protection Type	IP 65	t	
Insulation Class	В	according to EN 60730	

Good resistance to thermal (e.g., T-medium 80 $^{\circ}$ C / 10 minutes) and chemical disinfection.

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according to

EN 60730

Hygiene advantage by air testing prior to delivery.

Protection class

Testing according EN 15091 and adjustment of the valve in the fitting upon request.

Options					
ID	Connection Type	Cable Length L	Characteristic		
62804	single strands with	85 ± 5 mm	flow optimized		
62806	male connector	100 ± 5 mm	flow optimized		
62810	round cable with 3 mm female connector	250 ± 5 mm	flow optimized		
62817	twin strand	100 ± 5 mm	flow optimized		
62824	single strands and male connector	85 ± 5 mm	water surge optimized		
62826	single strands with female connector	65 ± 5 mm	water surge optimized		



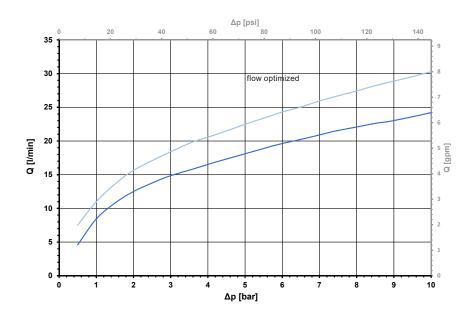
Series 50.005.101 bi

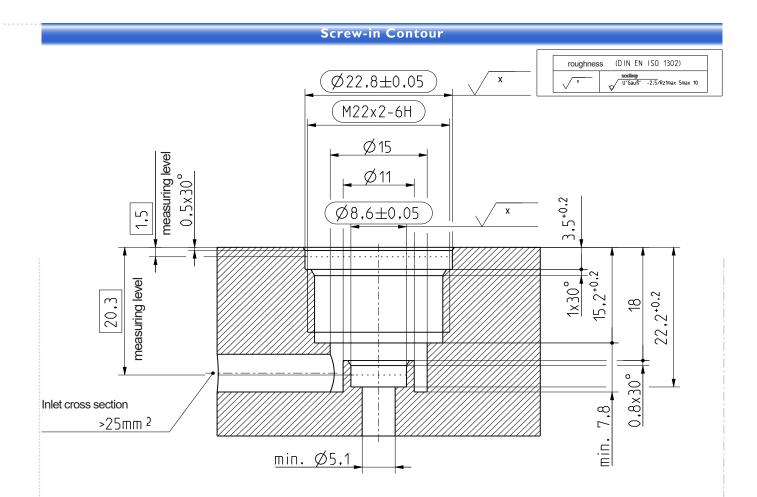
Other variant on request

For use outside wash basin applications, a flow-optimized variant with a flow rate Kv of 11 I / min is available on request.

The water hammer characteristics and noise emissions in accordance with DIN EN 15091 are to be tested in the corresponding faucet.







3

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