

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

Characteristics

- Servo-controlled
- Pre tested functional unit
- Suitable for the thermal as well as chemical disinfection
- Long term performance capability
- Internal triple pollution protection
- Compact design
- Variant 1: Optimized Cv-value for DN 5 (11 l/min at 1 bar)
- Variant 2: Optimized water hammer characteristic by low noise emission according to EN 60730 and EN 15091
- 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 mo



Description

2/2-way solenoid cartridge servo controlled valve of DN 5 in mono stable version, to be used particularly in electronically controlled sanitary fittings.

The valve is especially suitable for use in electronically controlled sanitary fittings that are operated via SELV / PELV power supplies. This operating mode ensures that the valve closes if the mains voltage fails.

With a suitable PWM control, the power consumption can be additionally reduced by up to 75% in continuous operation.

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 designa 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.

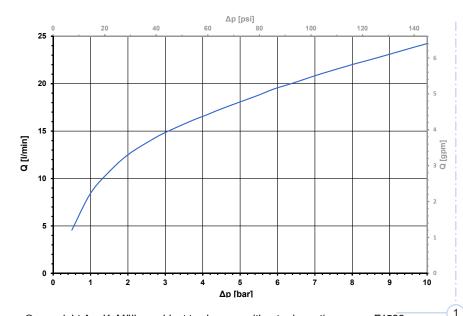
Applications

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

Available Approvals

- KTW BWGL System 1+
- NSF 61
- WRAS
- ACS
- Others on request

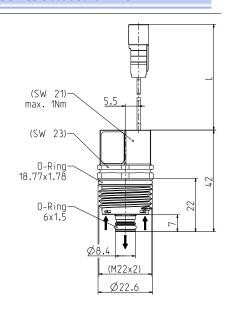
Typical Performance Curve Water Surge Optimized





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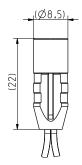
Before screw in o-rings are to be greased with silicone grease.



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 (Inlet)			







Male connector
Polarity of connector:
strand color RED
(PIN 1)
strand color BLUE

Options				
ID	Nominal Voltage	Connection Type	Cable Length L	Characteristic
062808	- 24 V DC	twin strand	95 ± 5 mm	flow optimized
062811	24 V DC		185 ± 5 mm	flow optimized
062816	with ı		167 ± 5 mm	flow optimized
062819		connector	95 ± 5 mm	water surge optimized
062821			95 ± 5 mm	flow optimized
062822	_ 24 V DC	twin strand with male connector (3-poles)	180 ± 5 mm	flow optimized
062825		twin strand with male connector	185 ± 5 mm	water surge optimized
others on request				

Technic	al Dat	a		
Туре	Cartridge Valve			
Construction	2/2-way Screw-in, Servo Controlled			
Function	NC (normally closed)			
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 factor Kv water surge optimized flow optimized	8,5 11	l/min l/min		
Pressure surge A	According to EN 60730			
Pressure surge B	Testing according EN 15091 and adjustment of the valve in the fitting upon request.			
Burst pressure (static)	According to EN 60730			
Nominal voltage	12 24	V DC V DC		
	Other Voltages on Request			
Voltage tolerance	-15 % +10 %			
Optional Voltage Reduction U to T to T UN				

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

Nominal Power

Protection Type Insulation Class

Protection class

12 V DC 24 V DC

Hygiene advantage by air testing prior to delivery.

 t_{start} : 100 ms dutycycle \geq 33% [>100Hz] PWM t_{start} : 100 ms dutycycle \geq 25% [>1kHz] PWM

1,7 W

1,8 W

IP 65

according to EN 60730

according to EN 60730

В

Ш



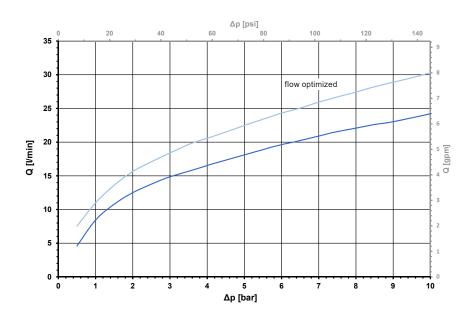
Series 50.005.101 mo

Other variant on request

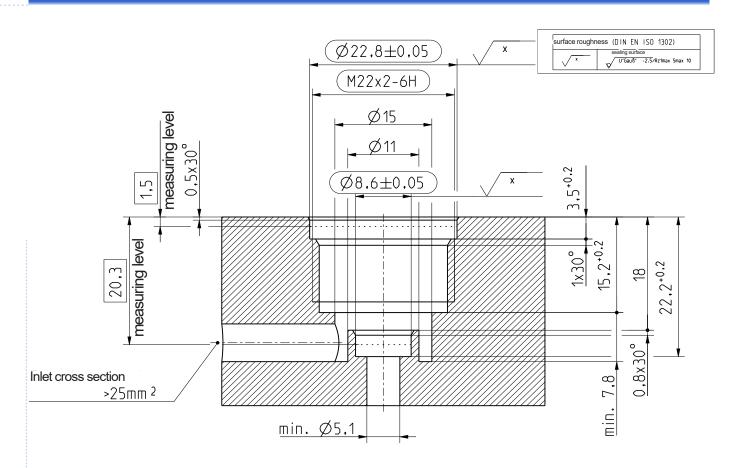
For use outside wash basin applications, a flow-optimized variant with a Kv value of 11 I / min is available on request.

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

Typical Performance Curve



Screw-in Contour



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