



**technische import**

# Productinformatie



A.U.K. MÜLLER GMBH & CO. KG

**BAFA.NL**

# Product Information

## Mono stable cartridge valve, DN 5



**A. u. K. Müller**

Solenoid valves  
Control valves  
Special valves and systems

A. u. K. Müller GmbH & Co. KG  
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### 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 design outline had been reduced so far that integration in appropriate components, while using a minimum amount of space, is given.

Positive properties are extended due to the simple "screw in" version, which supports easy assembly, service and tests by the customer.

The design of a separate valve seat by the customer is not to apply, as otherwise is needed, if a pilot valve will solely be used.

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
- Electronic faucets
- Irrigation systems
- Industrial appliances

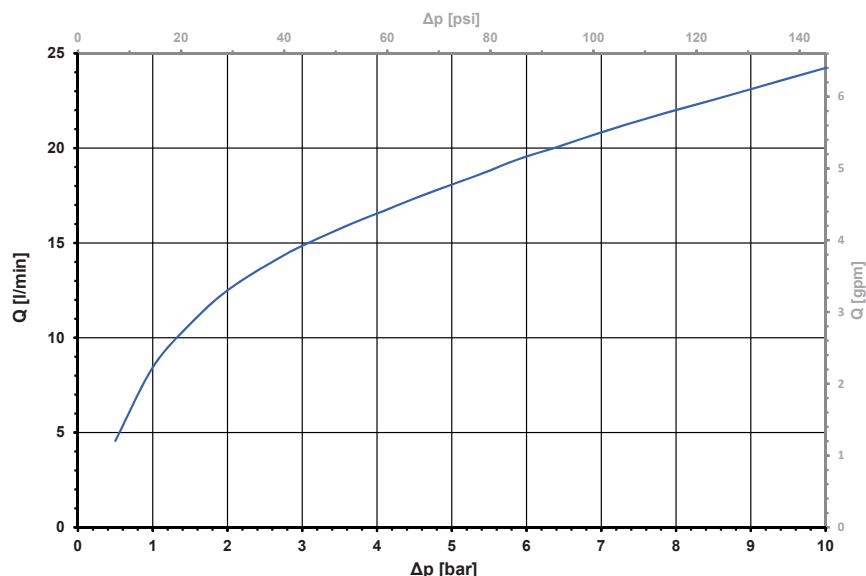
### Available approvals

- NSF 61
- WRAS
- ACS
- Others on request

### Characteristics

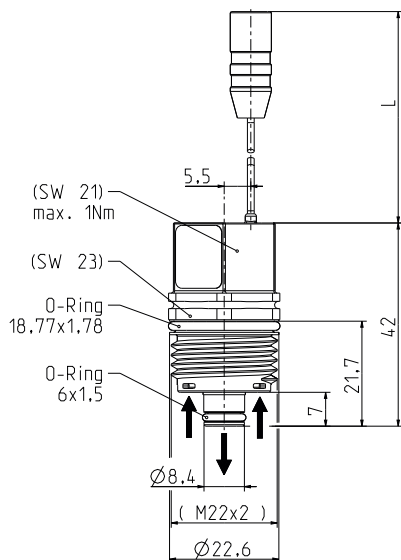
- Servo-controlled
- Pre tested functional unit
- Suitable for the thermal as well as chemical disinfection
- Long term performance capability
- Internal triple pollution protection
- Compact design
- Optimized Cv-value for DN 5 (8,5 l/min at 1 bar)
- Optimized water hammer characteristic by low noise 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

Typical performance curve





### Series 50.005.101 mo

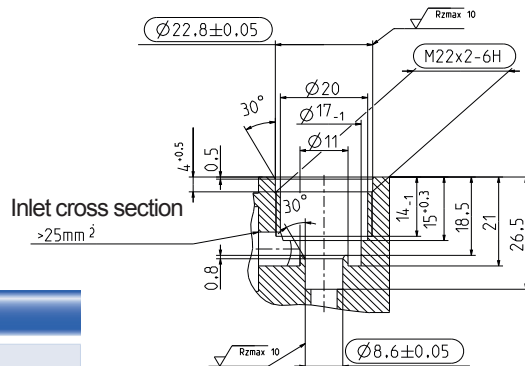


Before screw in o-rings are to be greased with silicone grease.



Max. Torque for screw in: 1Nm

### Screw in contour

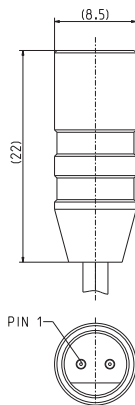


### Materials

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

### Options

ID	Nominal voltage	Connection type	standard cable length L
62819	12 V	with leads and connector	95 ± 5 mm
62808	24 V	others on request	



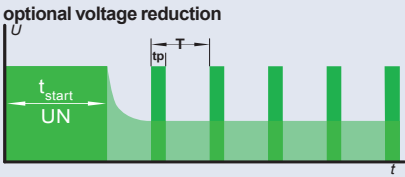
### Male connector

### Polarity of connector:

strand color **RED** Pin 1  
strand color **BLUE**

**PLUS(+)** pulse to open  
**MINUS(-)**

### Technical Data

Type	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	°C.
T-Ambient	5 - 60	°C
DN	5	mm
p-Operating	0,5 - 10,0	bar
Cv-value	8,5	l/min
pressure surge	according to EN 60730	
Burst pressure	according to EN 60730	
Nominal voltage	12	V DC
	24	V DC
	other voltages on request	
Voltage tolerance	-15 % +10 %	
optional voltage reduction		
		
t <sub>start</sub> : 100 ms	tp:T ≥ 1:3	>100Hz] PWM
t <sub>start</sub> : 100 ms	tp:T ≥ 1:4	>1kHz] PWM
Nominal power		
12 V DC	1,7 W	
24 V DC	1,8 W	
Protection Type	IP 65	higher IP-classes on request
Insulation class	B	according to EN 60730

Good resistance to thermal (e.g., T-medium 80 °C / 10 minutes) and chemical disinfection.

Hygiene advantage by air testing prior to delivery.

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



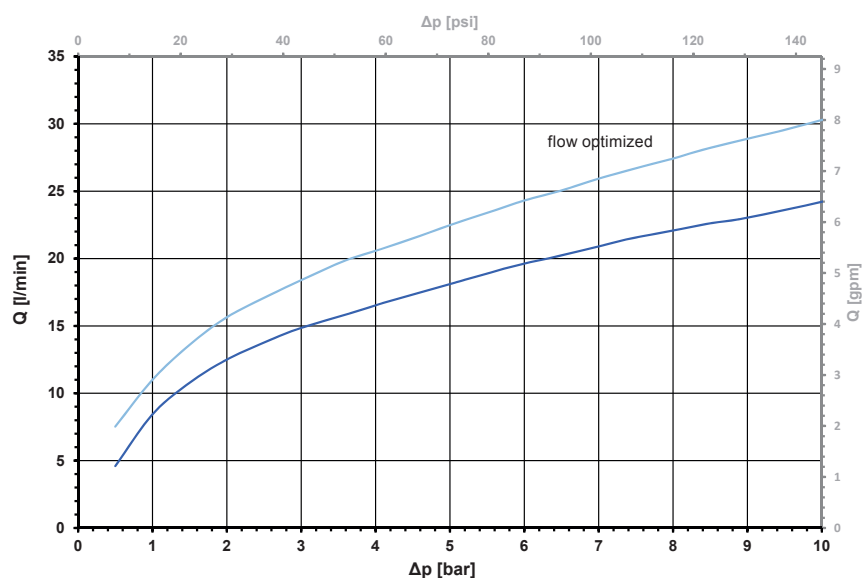
**Series 50.005.101 mo**

**Other variant on request**

For use outside wash basin applications, a flow-optimized variant with a Kv value of 11 l / 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



# Product Information

## Mono stable cartridge valve, DN 7



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### Series 50.007.101 mono M28



### Description

2/2-way solenoid cartridge servo controlled valve of DN 7 in monostable version, to be used particularly in electronically controlled sanitary fittings.

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

Positive properties are extended due to the simple "screw in" version, which supports easy assembly, service and tests by the customer.

The design of a separate valve seat by the customer is not required, as otherwise needed when solely using a pilot valve.

The rate of flow of the cartridge valve has been optimised in such a way, that the nominal diameter of DN 7 fulfils the standard requirements for sanitary tap ware.

By using our special valve bodies, an extended variety of attachment combinations can be achieved (see data sheet 50.007.126 or 50.007.52x).

### Applications

- Sanitary fittings: urinal, shower or bidet
- Irrigation systems
- Industrial appliances

### Possible approvals

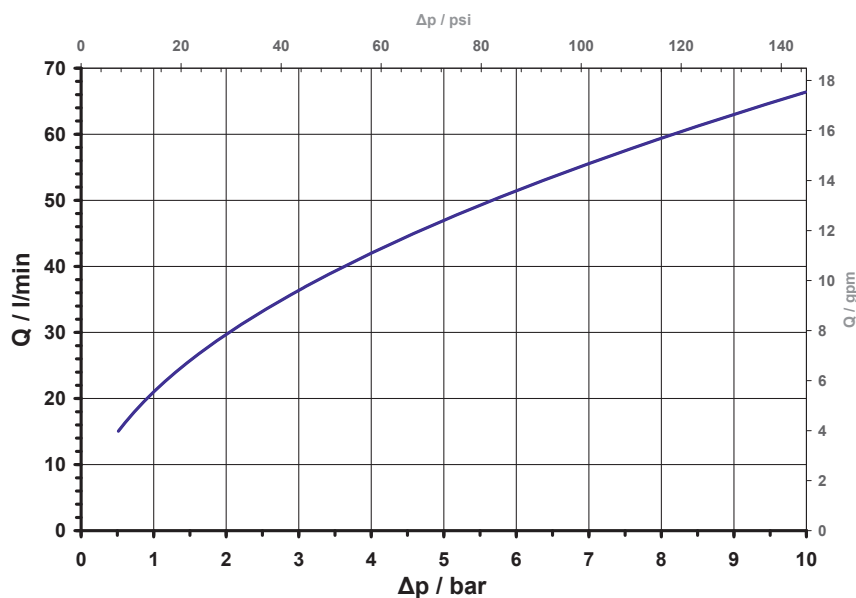
Approved versions available on request:

- KTW/W270
- NSF 61
- WRAS
- ACS
- Others on request

### 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
- Optimized Cv-value for DN 7
- 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

typical performance curve



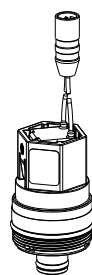
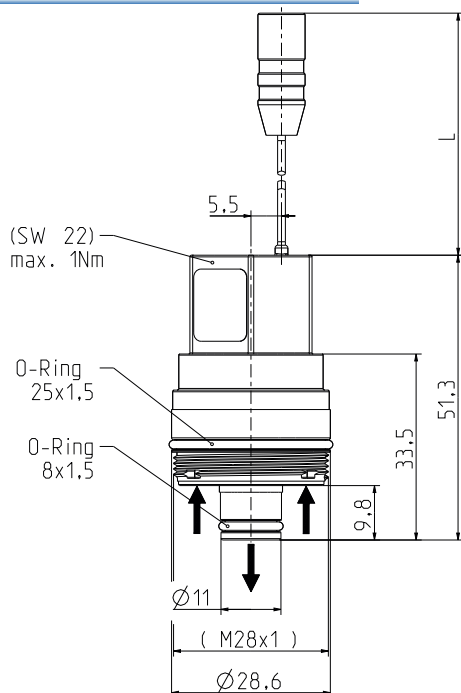
# Product Information

## Mono stable cartridge valve, DN 7



A. u. K. Müller

### Series 50.007.101 mono M28

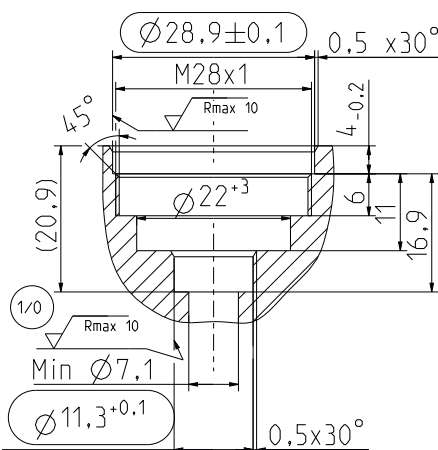


Before screw in o-rings are to be greased with silicone grease.



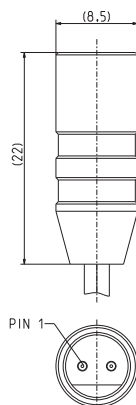
Max. Torque for screw in: 1Nm

### Screw in contour



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

Options	
Connection type	standard cable length L
with leads and connector	95 ± 5 mm
others	on request



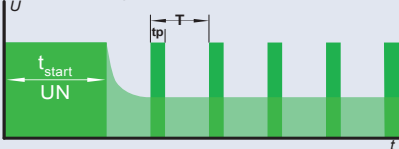
### Male connector

#### Polarity of connector:

strand color **RED** Pin 1  
strand color **BLUE**

PLUS(+) pulse to open  
MINUS(-)

### Technical Data

Type	Cartridge valve	
Construction	2/2-way screw-in, servo controlled	
Function	NC (normally closed)	
Connection	thread M28 x 1	
Fitting position	any	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 70	°C.
T-Ambient	5 - 60	°C
DN	7	mm
p-Operating	0,5 - 10,0	bar
Cv-value	21	l/min
pressure surge	according to EN 60730	
Burst pressure	according to EN 60730	
Nominal voltage	12 24	V DC V DC
	other voltages on request	
Voltage tolerance	-15 % +10 %	
Optional voltage reduction		
		
$t_{start} : 100 \text{ ms}$ $tp:T \geq 1:3$ [ $>100\text{Hz}$ ] PWM $t_{start} : 100 \text{ ms}$ $tp:T \geq 1:4$ [ $>1\text{kHz}$ ] PWM		
Nominal power		
12 V DC	1,7 W	
24 V DC	1,8 W	
Protection Type	IP 65	higher IP-classes on request
Insulation class	B	according to EN 60730

Good resistance to thermal (e.g., T-medium 80 °C / 10 minutes) and chemical disinfection.

Hygiene advantage by air testing prior to delivery.

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

# Product Information

## Monostable cartridge valve, DN 9



**A. u. K. Müller**

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### Series 50.009.101 mono M29



### Description

2/2-way solenoid cartridge servo controlled valve of DN 9 in monostable version, to be used particularly in electronically controlled sanitary fittings.

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

Positive properties are extended due to the simple "screw in" version, which supports easy assembly, service and tests by the customer.

The design of a separate valve seat by the customer is not required, as otherwise needed when solely using a pilot valve.

The rate of flow of the cartridge valve has been optimised in such a way, that the nominal diameter of DN 9 fulfils the standard requirements for sanitary tap ware.

By using our special valve bodies, an extended variety of attachment combinations can be achieved (see data sheet 50.009.126).

### Applications

- Sanitary fittings as in urinals or wellness showers
- Irrigation systems
- Industrial appliances

### Possible approvals

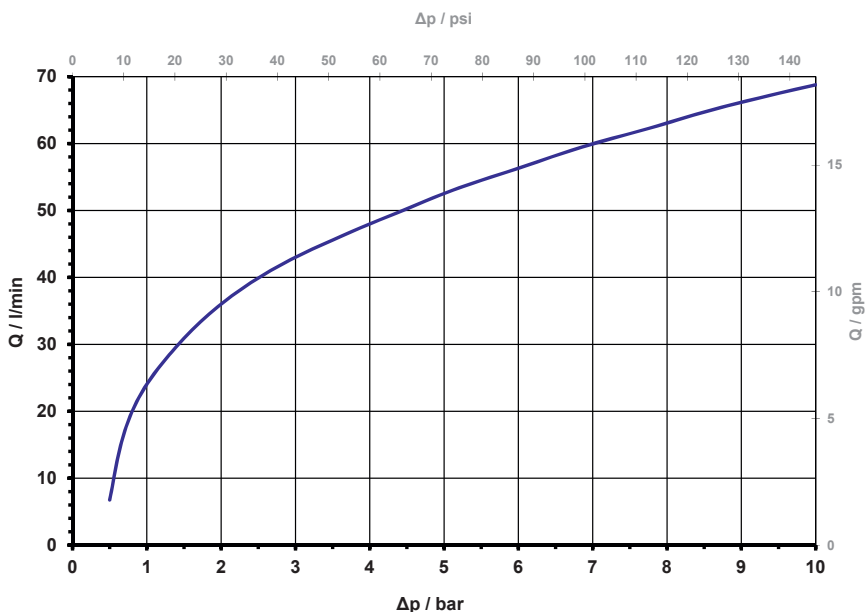
Approved versions available on request:

- KTW/W270
- NSF 61
- WRAS
- ACS
- Others on request

### 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
- 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

typical performance curve





**technische import**

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