Product Information

Monostable cartridge valve, DN 9

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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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

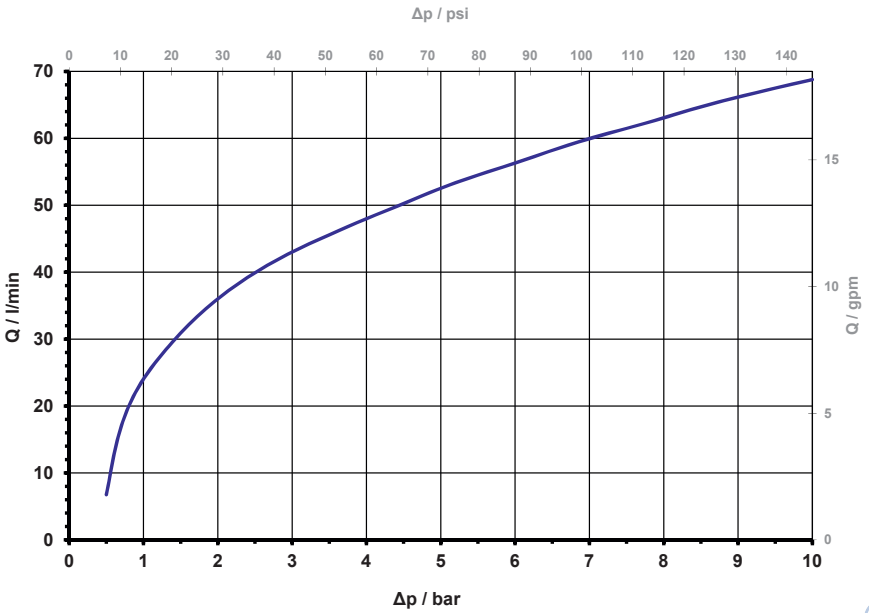
Approved versions available on request:

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

Characteristics

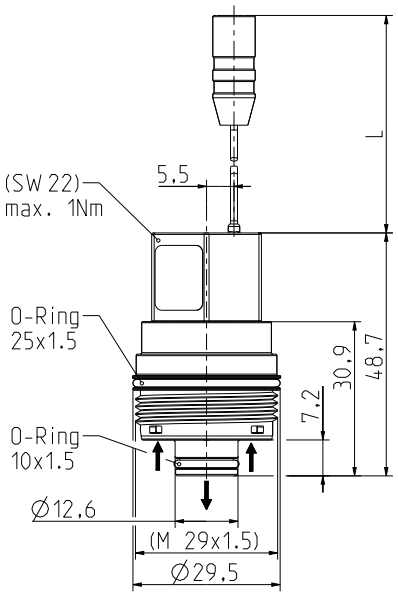
- Servo-controlled
- Pre tested functional unit
- Suitable for the thermal as well as chemical disinfection
- Long term performance capability
- Internal triple pollution protection
- Compact design
- Optimized water hammer characteristic by low noise emission according to EN 60730 and EN 15091
- Easy 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

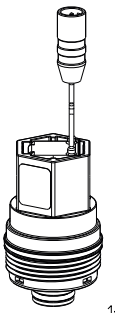
typical performance curve



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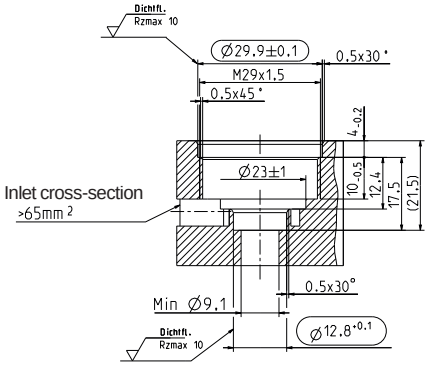




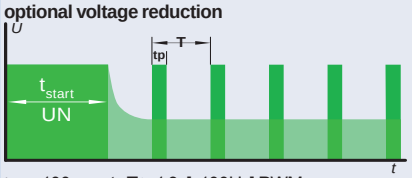
Before screw in o-rings are to be greased with silicone grease.

Max. Torque for screw in: 1Nm

screw in contour



Technical Data

Type	cartridge valve	
Construction	2/2-way screw-in, servo controlled	
Function	NC (normally closed)	
Connection	thread M29 x 1,5	
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	9	mm
p-Operating	0,5 - 10,0	bar
Cv-value	24	l/min
pressure surge	according to EN 60730	
Burst pressure	according to EN 60730	
Nominal voltages	12 24	V DC V DC
	other voltage on request	
Voltage tolerance	-15 % +10 %	
optional voltage reduction		
	t_{start} : 100 ms tp:T ≥ 1:3 [>100Hz] PWM t_{start} : 100 ms tp:T ≥ 1:4 [>1kHz] PWM	
Nominal power 12 V DC 24 V DC	 1,7 W 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.

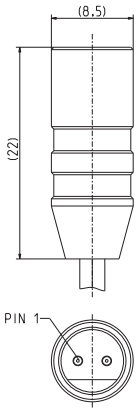
Testing according EN 15091 and adjustment of the valve in the fitting upon request.

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	PLUS(+) pulse to open
strand color BLUE	MINUS(-)

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