Mono-Stable Cartridge Valve, DN 7



A. u. K. Müller

Solenoid valves Control valves Special valves and systems

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Characteristics

- Servo-controlled
- Pretested 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 60730-2-8 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 operational safety through the use of high quality material
 - Hygiene benefit by 100% final testing with air

Series 50.007.101 mono M29



Description

2/2-way solenoid cartridge servo controlled valve of DN 7 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 flow rate of the cartridge valve has been optimized in such a way, that the nominal diameter of DN 7 fulfils the standard requirements for sanitary tap ware. In addition, we offer a version that has been optimized against water hammer according to EN 60730-2-8.

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

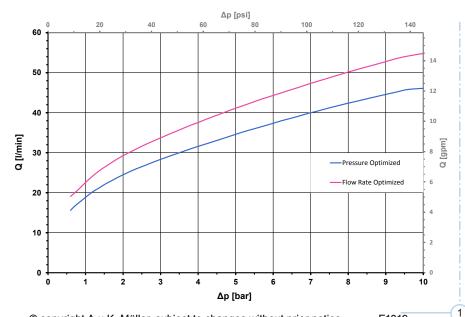
Applications

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

Possible approvals

- KTW/W270
- NSF 61
 - WRAS
- ACS
- Other a pproved versions available on request

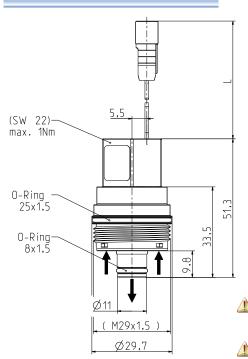
typical performance curve





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

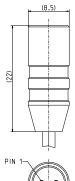
Max. Torque for Screw-in: 1 Nm

Options

Connection Type	Standard Cable Length L
With leads and connector	95 ± 5 mm

Other Connection Types on 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)		



PIN	1-	
	~	
		_

Male Connector			
Polarity of Connector:			
strand color RED (PIN 1)	PLUS(+) pulse to open		
strand color BLUE	MINUS(-)		

Tools	i ad Da	40		
Techi	nical Da	ita		
_	0			
Туре	Cartridge Va			
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	7	mm		
p-Operating	0,5 - 10,0	bar		
Cv-Value Pressure Optimized Flow Rate Optimized	17,3 21	I/min I/min		
Pressure Surge	According to	EN 60730-2-8		
Burst Pressure	According to	EN 60730-2-8		
Nominal Voltage	12 24	V DC V DC		
	Other Voltages on Request			
Voltage Tolerance	-15 % +10 %	D		
Optional Voltage Reduction				
t _{start} _ UN				
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	В	According to EN 60730-2-8		

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

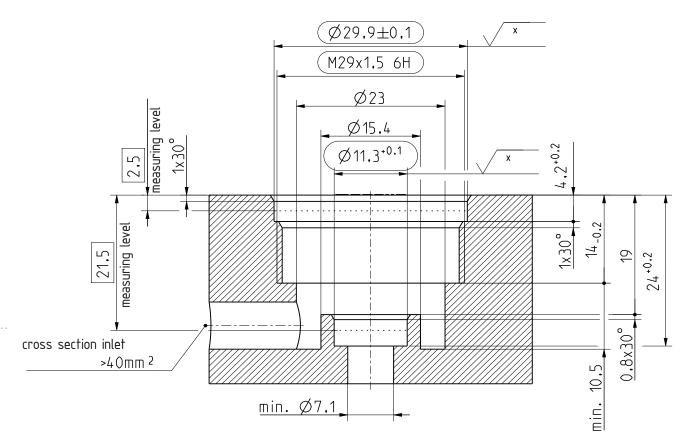
Hygiene advantage by air testing prior to delivery

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



Screw-in Contour





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