Product Information

Cartridge valve, DN 13

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

Series 50.013.101





Characteristics

- Servo-controlled
- Pretested functional unit
- Bistable or monostable version
- Long term performance capability
- Internal triple pollution protection
- Optimized water hammer characteristic by low noise emission according to EN 60730
- 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

Applications

- Sanitary fittings: wellness shower, bath tub filling, urinals

Approvals

Approved versions available on request:

- KTW-BWGL System 1+
- Others on request

Description

2/2-way solenoid cartridge servo controlled valve of DN 13 as mono stable or latching version, to be used particularly in electronically controlled sanitary fittings.

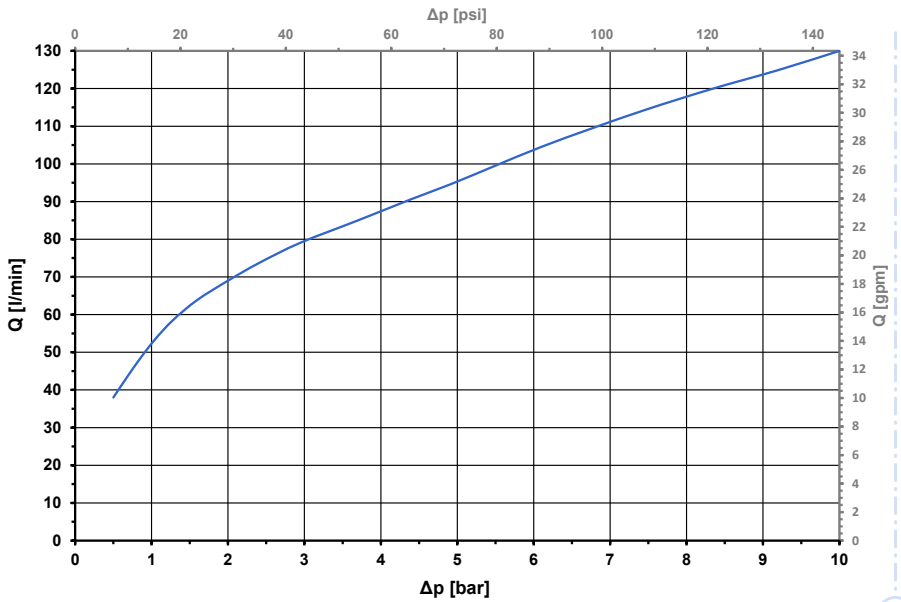
The valve allows a high flow rate in a compact unit for the control of potable water. Applications like bath-tub filling, shower panels supply or use in urinals can easily be set up.

The valve, equipped with a thread connection, speeds up assembling and disassembly in case of service.

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 13 fulfils the standard requirements for sanitary tap ware.

Typical Performance Curve

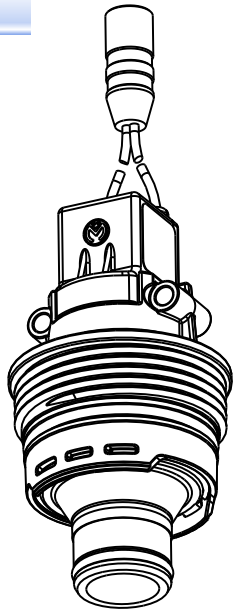


© copyright A.u.K. Müller, subject to changes without prior notice

Cartridge valve, DN 13

A. u. K. Müller

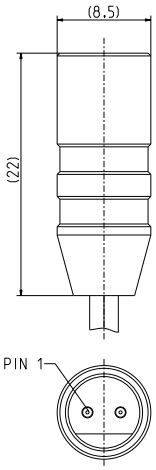
Series 50.013.101



Materials

Valve body	PA 6/6 glass fibre reinforced
Plunger guide	LCP
Plunger and spring	stainless steel
Membrane and seals	EPDM
Coil coating	hotmelt
Filter (inlet)	on request

male connector



bistable version:
polarity of connector:
strand color RED Pin 1 PLUS(+) pulse to open
strand color BLACK MINUS(-)

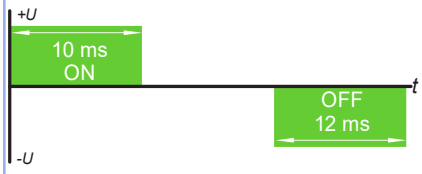
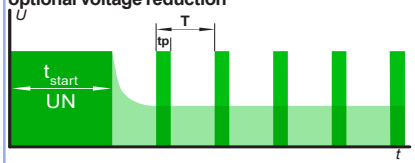
monostable version:
strand color RED Pin 1
strand color BLUE

Options

Voltage	Function	Connection type	Cable colours	Standard cable length	ID
6 VDC	bistable	with leads and connector	red/black	85 ±5 mm	60651
9 V DC					on request
12 VDC	monostable	with leads and connector	red/blue	95 ±5 mm	
24 V DC					

Others on request.

Technical Data

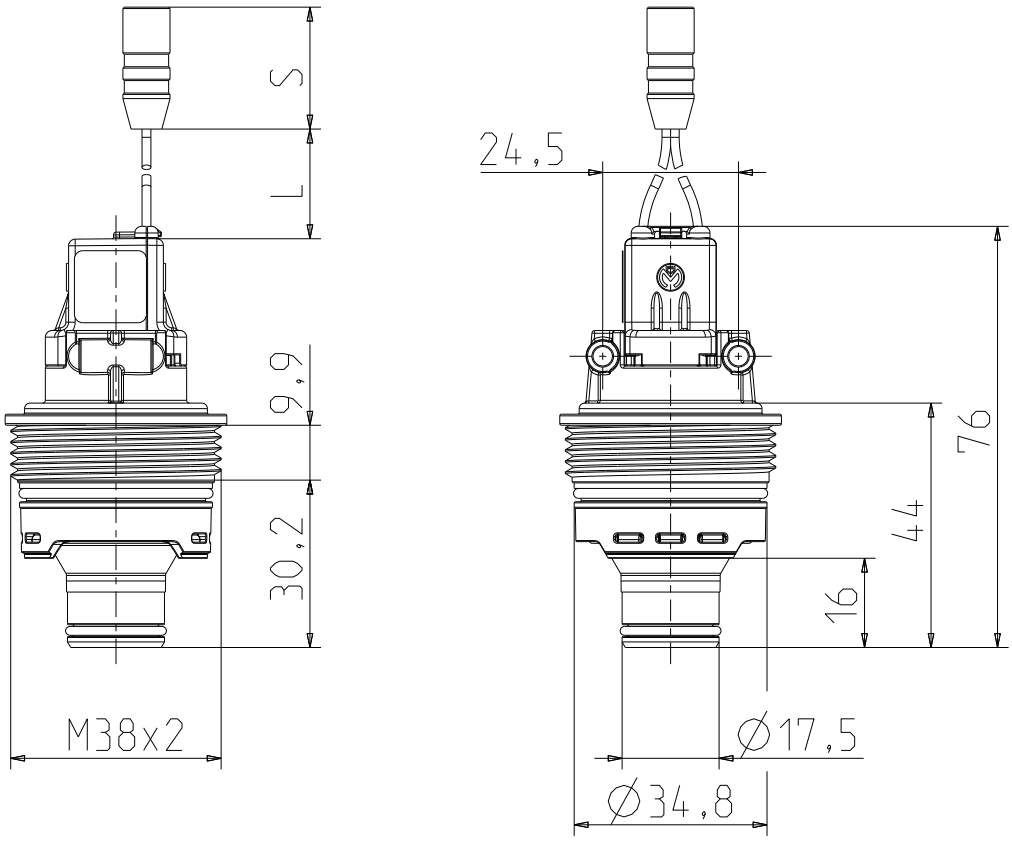
Type	cartridge valve	
Construction	2/2-way, plug-in or screw-in, servo controlled	
Function	bi stable, pulse controlled	
Fitting position	any	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 70	°C.
T-Ambient	5 - 60	°C
DN	13	mm
p-Operating	0,5 - 10,0	bar
Cv-value	52	l/min
bistable		
Nominal voltage	6 (9	V DC V DC on request)
Operating voltage	4,7 - 7,5 V DC open/close at T-Ambient 25 °C	
Pulse shape/-time		
Nominal power	1,8 W	at nominal voltage
monostable		
Nominal voltage	12 24	V DC V DC
	special voltage on request	
Voltage tolerance	-15 % +10 %	
optional voltage reduction		
t_{start} : 100 ms dutycycle ≥ 33% [>100Hz] PWM t_{start} : 100 ms dutycycle ≥ 25% [>1kHz] PWM		
Duty cycle	100%	
Nominal power **12 V DC** **24 V DC**	 2,6 W 3,0 W	
Protection type	IP 65	
Insulation class	B	according to EN 60730
Protection class	III	according to EN 60730

Hygiene advantage by air testing prior to delivery.

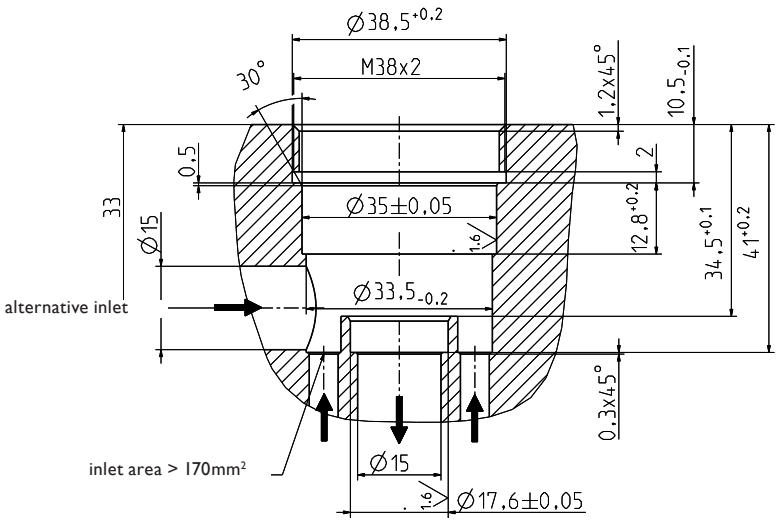
Testing according EN 15091 and adjustment of the valve in the fitting upon request.

 © copyright A.u.K. Müller, subject to changes without prior notice

Series 50.013.101



screw in contour



© copyright A.u.K. Müller, subject to changes without prior notice