Product Information

Modular Urinal Valve System with Strainer

Series 52.007.2xx









Description

The Modular Urinal Valve System includes a shut-off valve, a strainer and solenoid operated cartridge valve with a nominal orifice DN 7.

The shut-off valve allows the flow to be manually stopped, using a standard 8 mm Allen key.

Suspended particles are filtered by the strainer.

The cartridge valve is inserted in the valve body and secured by a gland nut, which makes removable for maintenance simple. All 50.007.101 series bi-stable and mono-stable cartridge valves can be used.

Strainer and cartridge valve can be assembled in 15 degree increments to each other.

For flushing the pipework before initial operation or after maintenance, the cartridge valve can be replaced by a plug. The filter insert should also be removed at initial flushing.

Applications

- Flush-mounted urinal control

A.u.K. Müller

Solenoid valves
Control valves
Special valves and systems

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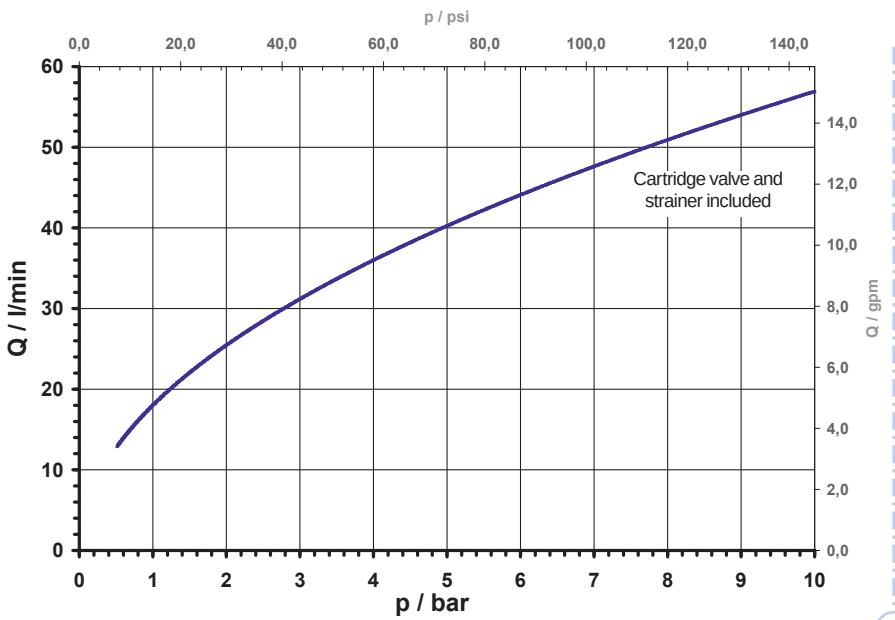
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Characteristics

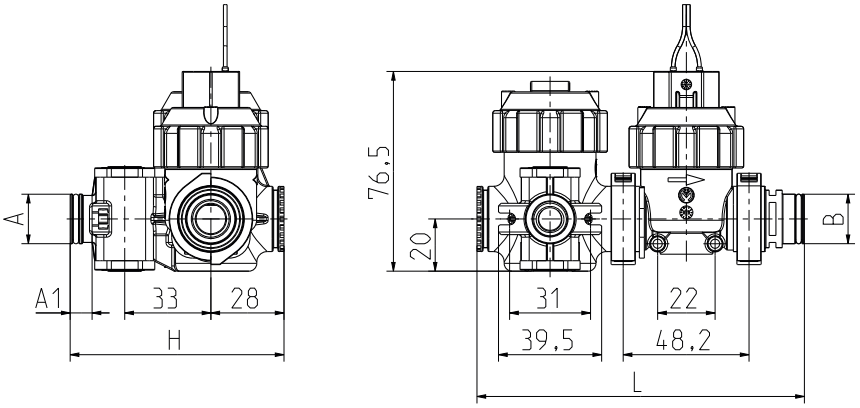
- Compact, one-piece design
- Shut-off valve for manual closing
- Integrated dirt strainer
- Cartridge valve and strainer can be assembled without tools
- Optional plug instead of cartridge valve for system flushing
- Angle between cartridge valve and strainer housings can be varied in 15 degree increments

typical performance curve

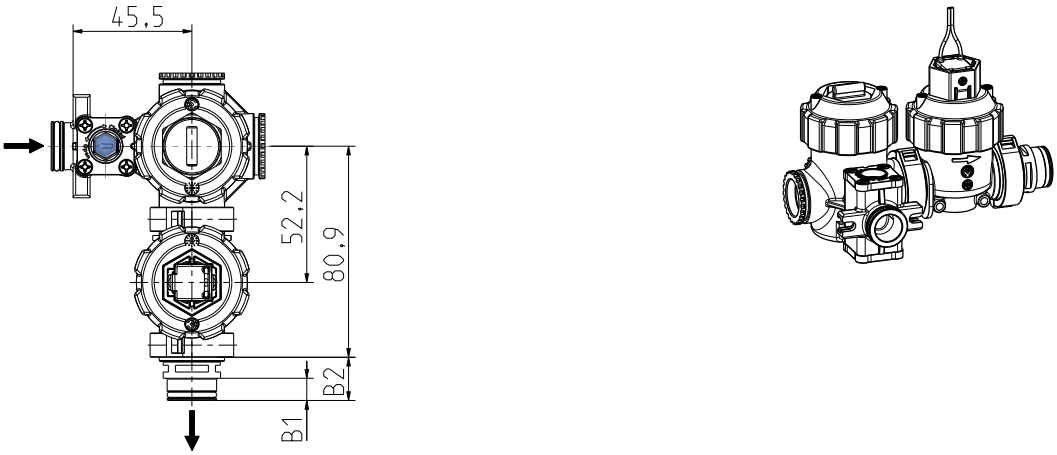


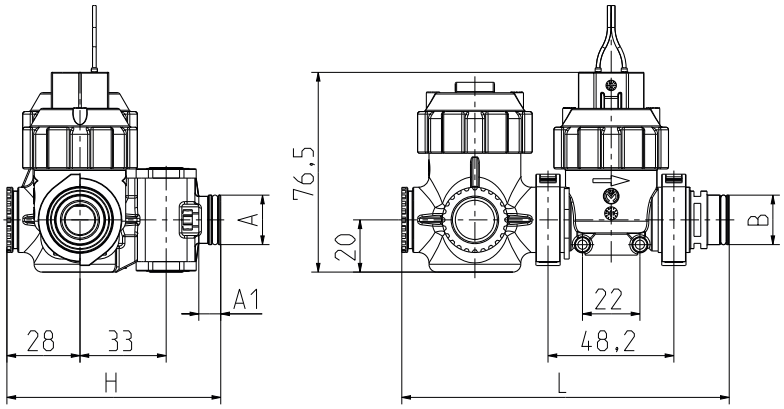
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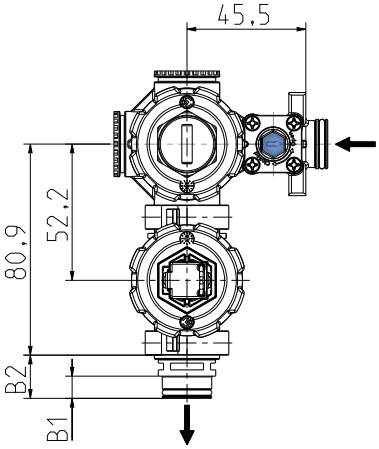


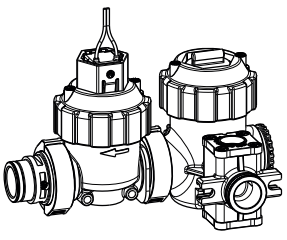
52.007.211 inlet left





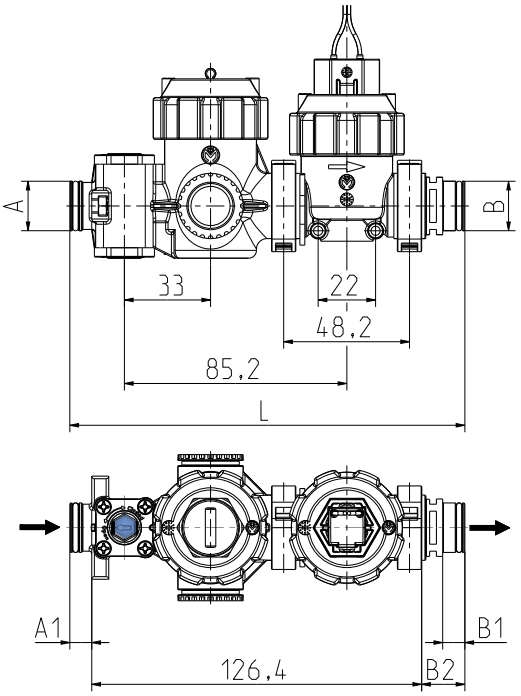
52.007.211 inlet right

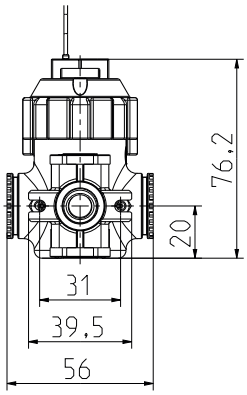




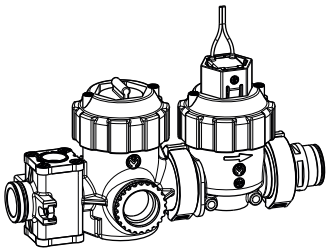
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52.007.226 Straight through housing



Options

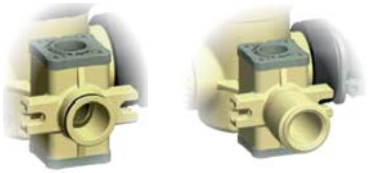
	Material	Inlet		Outlet				
		Ø A	A1	Ø B	B1	B2	L	H
52.007.226	PA 6/6	Plug connection 19	8,5	Plug connection 19	8,5	16,6	151,5	-
52.007.226	PA 6/6	G 1/2	24,5	G 1/2	22,5	30,6	181,5	-
52.007.211	PA 6/6	Plug connection 19	8,5	Plug connection 19	8,5	16,6	125,5	82,0
52.007.211	PA 6/6	G 1/2	24,5	G 1/2	22,5	30,6	139,5	98,0

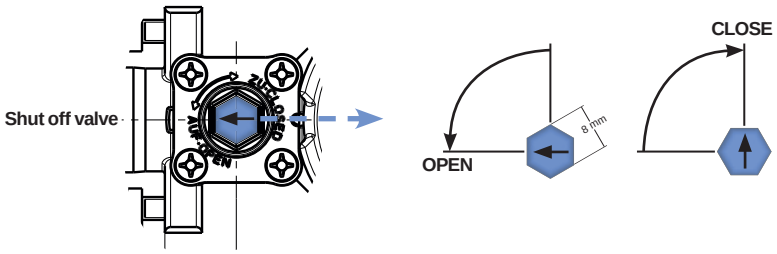
Combinations of the connectors above or customer specific variants are available on request.

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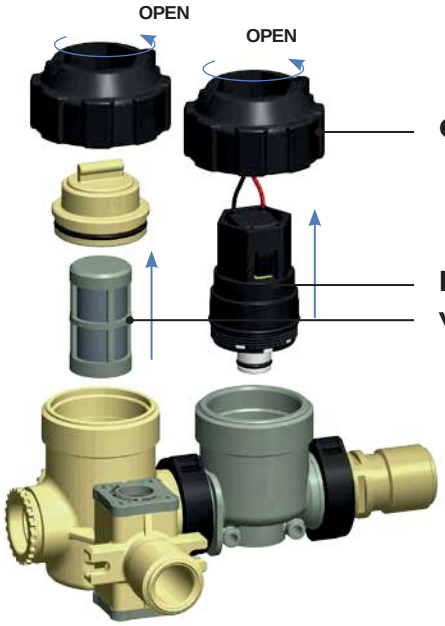
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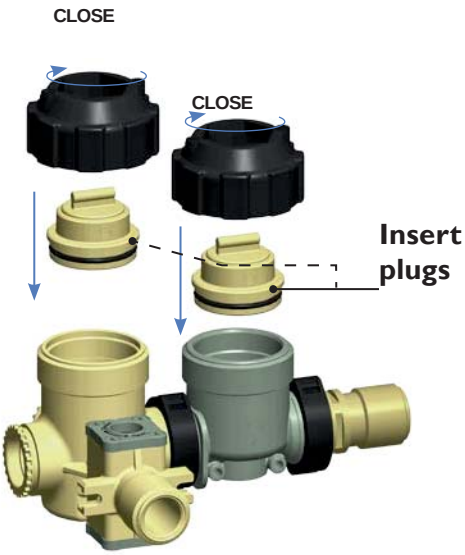
Shut-off valve - Please see markings on the retention gland for operation





For flushing of the system





ID of Cap	Material	Note	
009787	PA 66	For valve model 50.007.101	

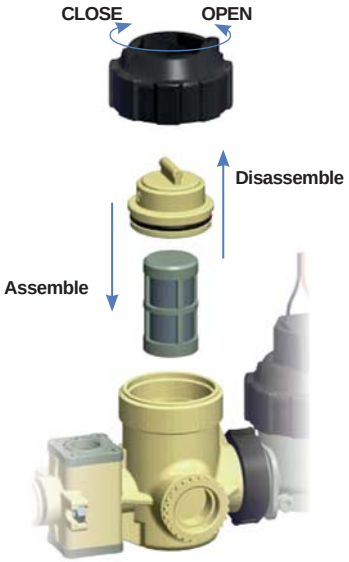
When using the cartridge valve body adapter with cartridge valve 50.007.100 as cap ID 009057 is required.

After flushing assemble parts in reverse order.

Please refer to the Note on page 8

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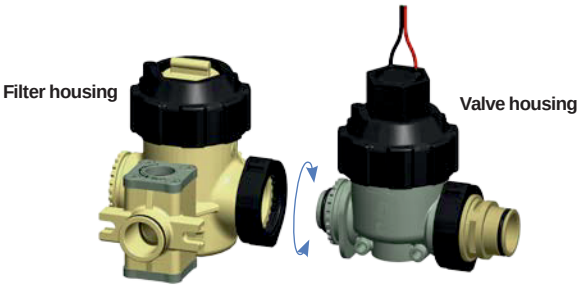
Available filter inserts

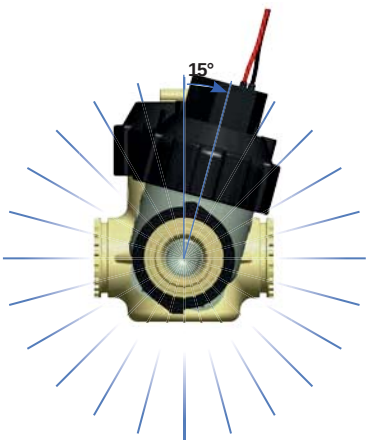
ID	Material	Mesh size/ wire diameter	
008930	PA 6/6	0,50 / 0,20 mm	
008929		0,25 / 0,12 mm	
008928		0,11 / 0,06 mm	

Spare parts	ID	
Swivel nut for valve 50.007.101	**009787**	
Plug and o-ring	**009058 + 006585**	

Assembly Options

Strainer and cartridge can be assembled in 15 degree increments to each other.





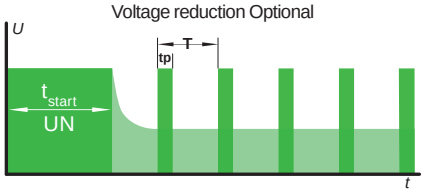
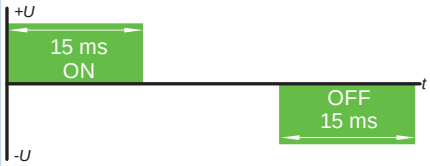
Example of a pre-assembly with filter and valve housing twisted by 30 degree.



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Series 52.007.2xx

Technical Data

	monostable	bistable
Type	2/2-way cartridge valve	
Construction	Screw-in, servo controlled	
Function	Normally closed (NC)	Bistable, pulse controlled
Connection	Thread M28 x 1 or M29 x 1,5	
Fitting position	Any	
Media	Cold potable water and physically and chemically similar media	
T-Medium	5 - 30 °C	
T-Ambient	5 - 60 °C	
DN	7 mm	
p-Operating	0,5 - 10,0 bar	
Cv-value @ 1 bar	18 l/min	
Pressure surge	According to EN 60730	
Nominal voltages	12 V DC 24 V DC	6 V DC
	Other voltages on request	
Voltage tolerance	-15 % / +10 %	
Operating voltages		4,0 - 6,9 V DC open/close at T-Ambient: 25 °C
	Voltage reduction Optional  t_{start} : 100 ms tp: T ≥ 1:3 [>100Hz] PWM t_{start} : 100 ms tp: T ≥ 1:4 [>1kHz] PWM	Pulse shape/-time 
Duty cycle	100 %	
Power consumption	1,7 W (Un: 12 VDC) 1,8 W (Un: 24 VDC)	1,4 W
Protection type	IP 67	
Insulation class	B according to EN 60730	



50.007.101

Materials

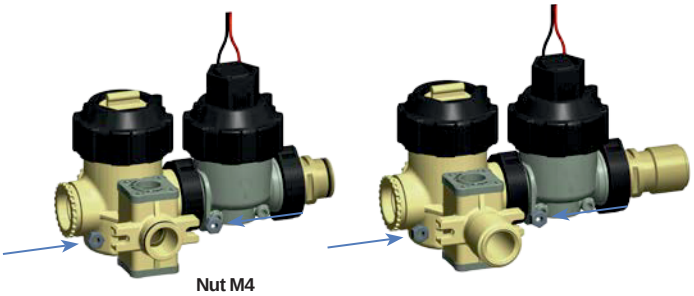
Body	PA 6/6 glass fibre reinforced
Plunger guide	LCP
Plunger and spring	Stainless steel
Membrane and sealings	EPDM
Filter (in inlet)	Stainless steel

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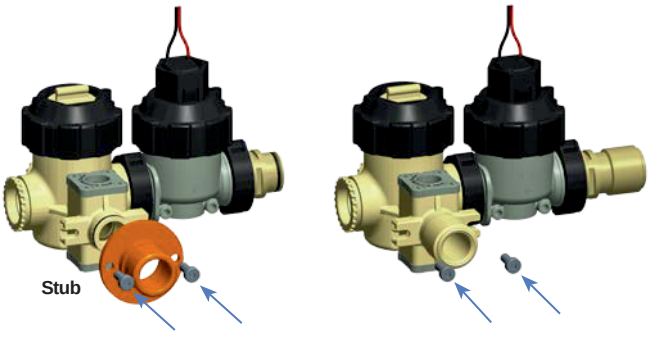
Connection to a flush mounting box

At the inlet two pockets are used to locate M4 nuts. The nuts are pushed into the pockets and are prevented from rotating.

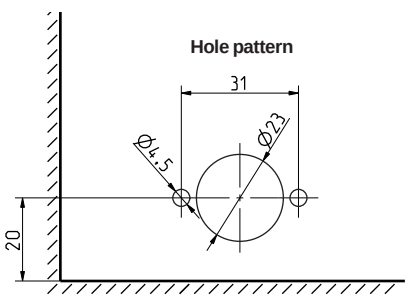


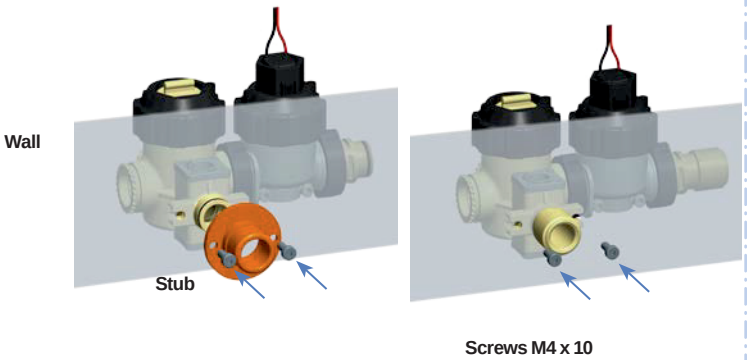
When utilising a plug-in connection, a stub, for example, is screwed to the wall with M4 screws.

Mounting accessories such as stubs and screws on request.



The attachment to the wall of the flush mounting box requires customised openings for the hydraulic connection and the fixing screws. Recommended wall thickness is 2 to 3 mm.





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1



Assembly instructions

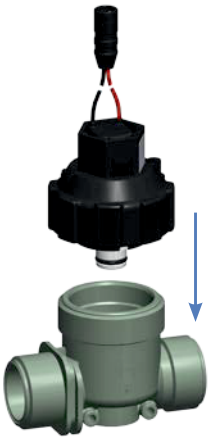
Please proceed with the installation as follows:

1
Place the cap before screwing on the valve first.

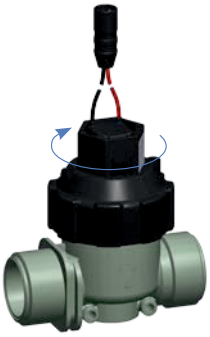
2
The cutout in the upper cap opening must be aligned with the cable exit of the valve and must lie flush.

3
Screw cap and valve simultaneously in the housing to prevent damages caused by misalignment of the valve.

2



3



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