Product Information

Float valve, DN 10

Series 21.010.115

Description

Servo-controlled valve nominal diameter DN 10, which closes by means of buoyancy of a floater to control level in tanks

If liquid is drained from the tank, the float valve refills automatically and closes when the maximum level has been reached.
While water level and floater rises, the flow into the tank is throttled proportional to the levers position.
An overflow of small tanks will be prevented during the initial filling.

Valves of this design are single chamber valves with the inlet ninety degrees to the outlet.
The valve, having a glass fibre reinforced polyamid body and can be manufactured with various connections and is suitable up to 60 °C by using a PE-floater or PP float ball. For heated water up to max. 90 °C a stainless steel float ball is available on request.

Applications

- Tank filling
- High pressure cleaning devices (system separation according to EN 1717)
- Washing systems
- Irrigation systems
- Ice machines
- Industrial appliances

A.u.K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

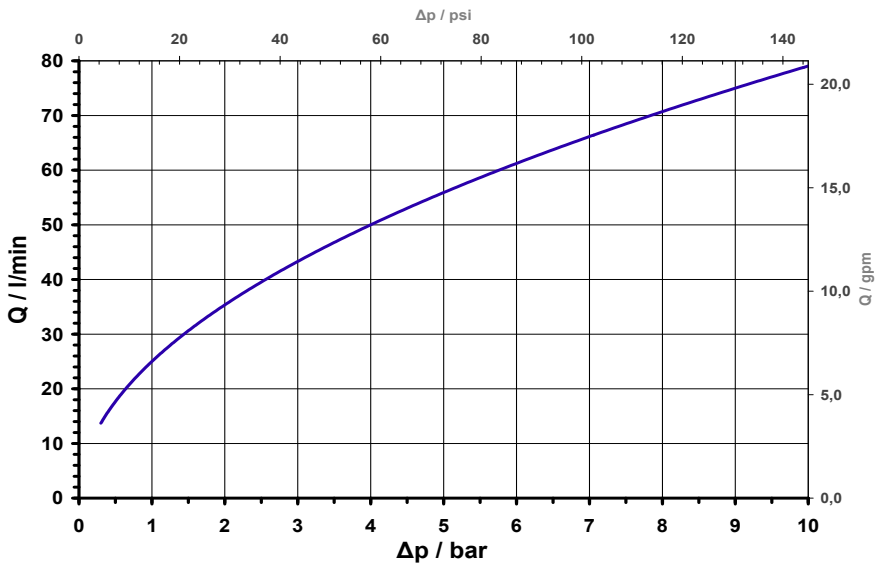
- Proportional behaviour (flow depends on position of float lever)
- Servo-controlled
- Operation largely independent from inlet pressure
- Easy to assemble and service
- Compact design
- Suitable for heated water up to 60 °C, with optional stainless steel floater up to 90 °C
- Floater adjustable on thread rod
- Thread rod can be shortened at predetermined breaking points
- Different lever lenghts available
- High operating safety through the use of high quality materials and 100% final testing of the products

Approvals

Approved versions available on request:
KTW-BWGL System 1+

- Others on request

Typical Performance Curve



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Float valve, DN 10

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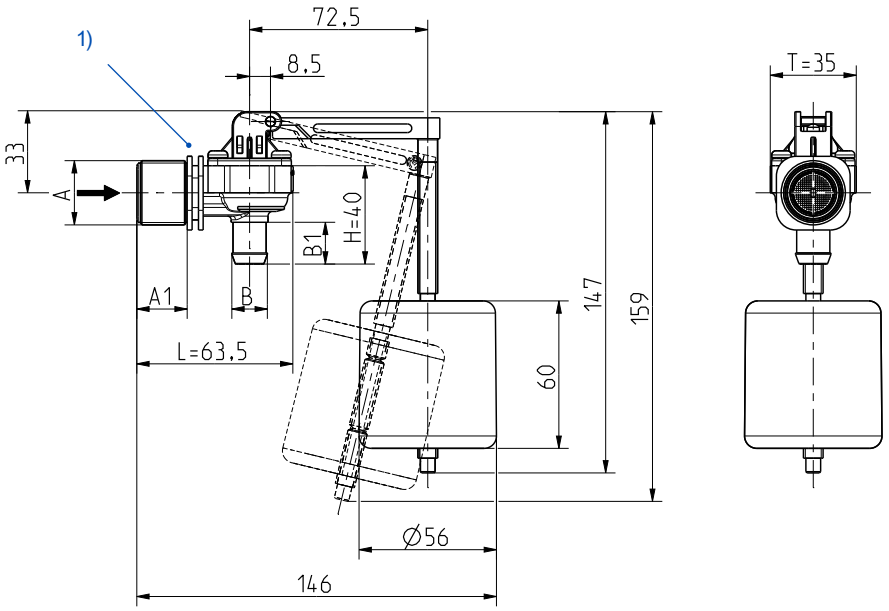


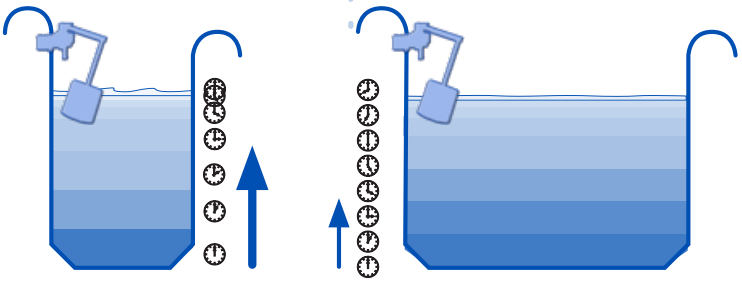
1) Fixing groove

Technical Data

Type	float valve	
Construction	2/2-way single chamber valve inlet ninety degree to the outlet, servo-controlled	
Function	closed by buoyancy of float	
Fitting position	float pointing downwards	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 30 5 - 60 5 - 90	°C max. polystyrene °C max. PE °C max. stainless steel
T-Ambient		as per T-Medium
DN	10	mm
p-Operating	0,3 - 10	bar
Flow factor Kv	25	l/min
Flow regulator	on request	
Float cylinder	adjustable position	

Materials

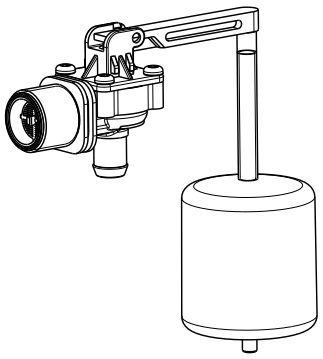
Valve body	PA 66 glass fibre reinforced, PA 6/6 glass fibre reinforced, PPE (on request), PEI (on request)
Metal parts in medium	stainless steel
Membrane	EPDM, VMQ (on request)
Sealings	EPDM
Float cylinder	PE-foam, polystyrene (on request), stainless steel 1.4301 (on request)
Float lever	POM
Filter	POM (in inlet) stainless steel (on request)



rise speed of water level

Options

Material	Inlet		Outlet		
	Ø A	A1	Ø B	B1	
PA 66	G 3/4	20,0	14,5 nozzle	17,0	
PA 66	G 3/4	20,0	11,5 nozzle	16,0	
PA 6/6	G 3/4	20,0	14,5 nozzle	17,0	
PPE	G 3/4	20,0	14,5 nozzle	17,0	on request
PPE	.75-11,5 NH	20,0	10,0 nozzle	16,0	on request
PEI	G 3/4	20,0	14,5 nozzle	17,0	on request



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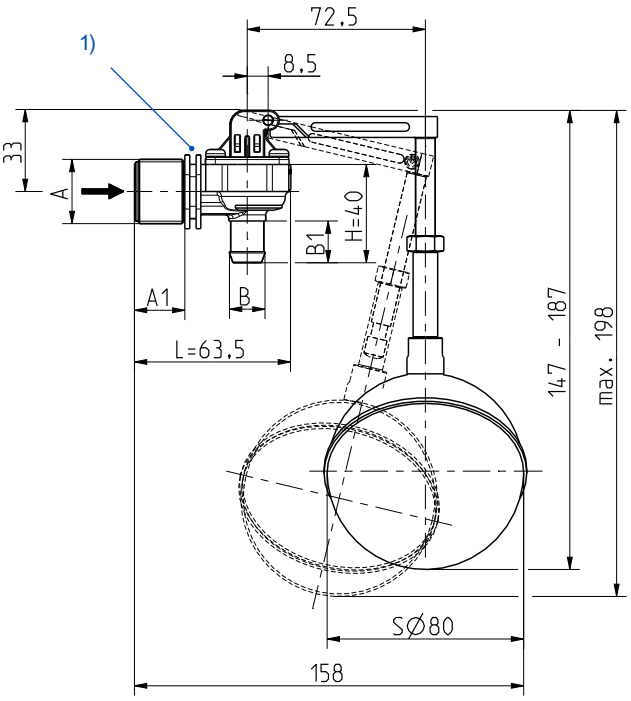

1) Fixing groove

Options

Material	Inlet		Outlet		
	Ø A	A1	Ø B	B1	
PA 66	G 3/4	20,0	14,5 nozzle	17,0	
PA 66	G 3/4	20,0	11,5 nozzle	16,0	on request
PA 6/6	G 3/4	20,0	14,5 nozzle	17,0	on request
PPE	G 3/4	20,0	14,5 nozzle	17,0	on request
PPE	.75-11,5 NH	20,0	10,0 nozzle	16,0	on request
PEI	G 3/4	20,0	14,5 nozzle	17,0	on request

! ATTENTION !
The customer must take suitable measures, such as baffles or similar, to ensure that the escaping water jet cannot hit the float body.

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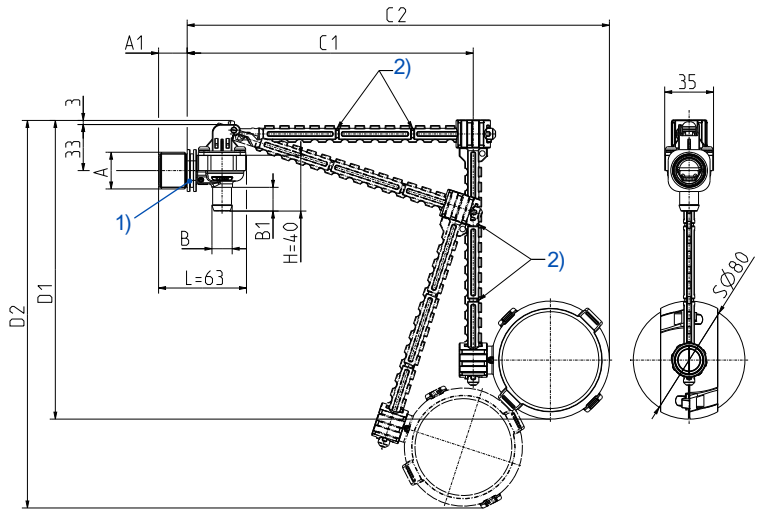
Adjustable Float Lever

Float lever and float ball adjustable within detent.
The float lever and float ball can be locked every 11 mm.
The float levers can be shortened at the predetermined breaking points (pos. 2).
Media temperature up to 90° C possible when using the stainless steel float ball.



1) Fixing groove
2) Predetermined breaking points lever

Note: The float ball must not be mounted so that it protrudes to the left beyond the fulcrum of the lever.

Technical Data

T-Medium (float balls)	5 - 30 5 - 60 5 - 90	°C (PS) °C (PP) °C (stainless steel)
T-Ambient	as per T-Medium	
Float ball	Position adjustable	

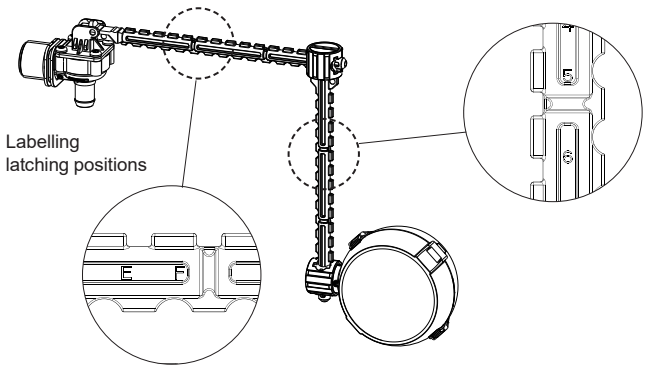
Lever Lengths

Lever lengths	min	max	Adjustment interval
D1	95	214	11 mm
D2	121	278	-
C1	66	206	11 mm
C2	163	303	11 mm

Attention
The water supply must not interfere with the movement of the float body, i.e. the incoming water jet and the resulting current must not hit the float body directly or in the immediate vicinity.

Materials

Valve body	PA 66 glass fibre reinforced
Angle nozzle	PA 66 glass fibre reinforced
Metal parts in medium	stainless steel
Membrane	EPDM, VMQ (on request)
Sealings	EPDM
Float ball	stainless steel, PP or PS
Float lever	PP glass fibre reinforced
Filter (at inlet)	stainless steel



Options

ID	A	A1	B	B1	Float valve with	Media Temperature
on request	G 3/4	18	G 1/2	17	Float ball PS	5 - 30° C
083321	G 3/4	18	G 1/2	17	Float ball PP	5 - 60° C
on request	G 3/4	18	G 1/2	17	Float ball stainless steel	5 - 90° C
Other combinations of connection types on request.						

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