

# Product Information

Float Valve, DN 10



**A.u.K. Müller**

Solenoid valves  
Control valves  
Special valves and systems

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**Series 21.010.110**



patented EP 1 469 241 B1

## Characteristics

- servo-controlled
- redirection of flow by 90°
- operation largely independent from inlet pressure
- easy to assemble and service
- compact design
- suitable for heated water up to 60 °C
- adjustable level height
- high operating safety through the use of high quality materials and 100% final testing of the products

## Applications

- tank filling
- irrigation systems
- high pressure cleaning devices (system separation according to EN 1717)
- ice machines
- industrial appliances

## Description

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

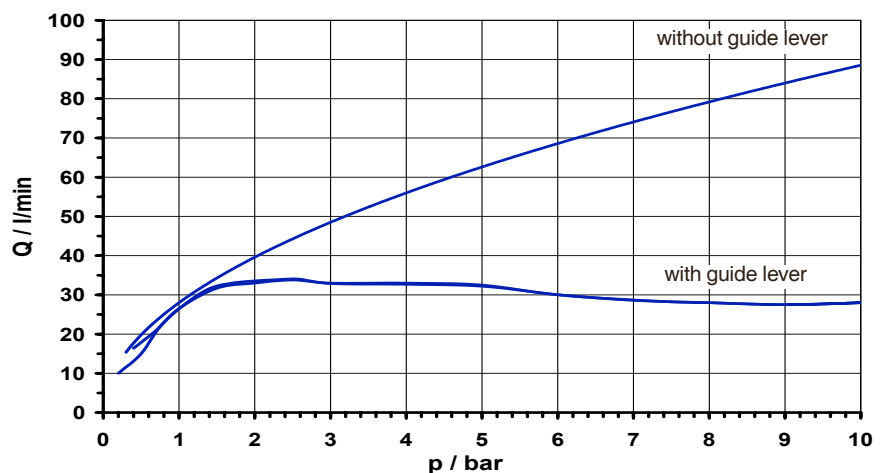
If liquid is drained from the tank, the float valve refills automatically and closes when the maximum level has been reached.

The outlet jet is directed on to a guide, which pushes the lever to closed. This effects a relative constant flow, covering a wide pressure range. An overflow of small tanks will be prevented during the initial filling.

By reaching a sufficient level within the tank during refill, the final closing procedure is due to the buoyancy of the float body.

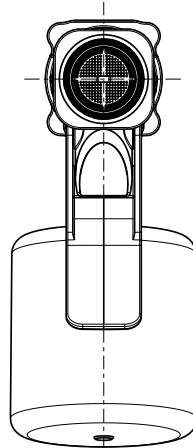
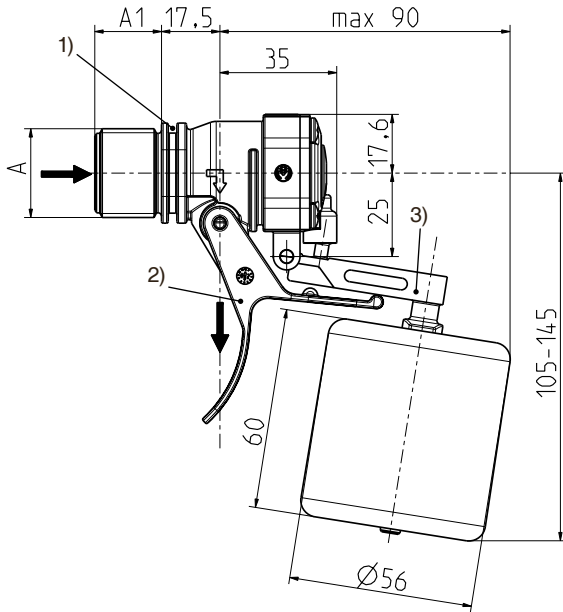
Valves of this design are single chamber valves with the inlet ninety degrees to the outlet. The valve, having a glass fibre reinforced polyamid housing, can be manufactured with various connections and is suitable up to 60° by using a PE-floater.

typical performance curve





**Series 21.010.110**



- 1) Fixing groove
- 2) Guide lever
- 3) Float lever

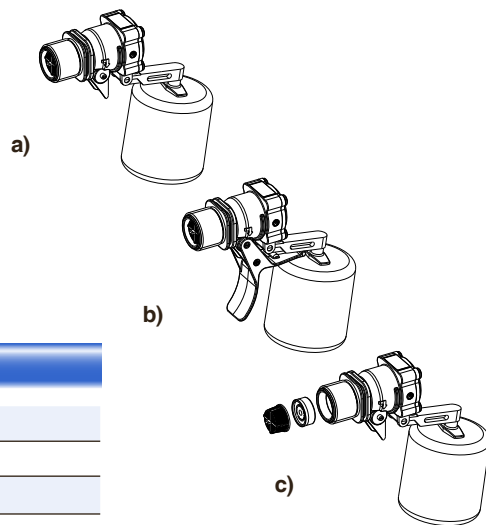
**Technical Data**

<b>Type</b>	float valve	
<b>Construction</b>	2/2-way single chamber valve inlet ninety degree to outlet, servo-controlled	
<b>Function</b>	closed by buoyancy of float	
<b>Fitting position</b>	float vertically downwards	
<b>Media</b>	cold and heated potable water and physically and chemically similar media	
<b>T-Medium</b>	30 60	°C max. polystyrene °C max. PE
<b>T-Ambient</b>	see T-Medium	
<b>DN</b>	10	mm
<b>p-Operating</b>	0,3 - 10,0	bar
<b>Cv-value</b>	28	l/min
<b>Flow direction</b>	marked by arrow	
<b>Float body</b>	position adjustable	
<b>filter</b>	fitted in inlet	

**Materials**

<b>Valve housing</b>	PA 66 glass fibre reinforced
<b>Membrane and sealings</b>	EPDM
<b>Float cylinder</b>	PE-foam polystyrene on request
<b>Float lever</b>	POM
<b>Guide lever</b>	POM
<b>Filter</b>	POM stainless steel on request

**Versions see next page**



**Options**

Material	Inlet	Outlet	
	Ø A	A1	Ø
PA 66	G 1/2	15,0	10,0
PA 66	G 3/4	20,0	10,0
PA 66	G 3/4	30,0	10,0
PA 66	.75x11.5 NH	20,0	10,0 on request
PA 66	G 3/4 female	30,0	10,0
PA 66	.75x11.5 NH female	30,0	10,0

## Versions on request

	Guide lever	Flow regulator in inlet		<p>The individual flow rate has to be synchronised with the water surface area within tank at float level height</p>
a)	<input type="radio"/>	<input type="radio"/>		No flow restriction. A restriction of the pressure range (e.g. 0,5 - 8 bar) may be recommended, if the rise of the water level within the tank may lead to an overflow by a gush of water.
b)	<input checked="" type="radio"/>	<input type="radio"/>		Flow restriction above 1,5 bar to approx. 35 l/min.
c)	<input type="radio"/>	<input checked="" type="radio"/>		Flow restriction above 1 bar. Depends on the used flow regulator with reduced tolerance compared to <b>b)</b> For small tanks a flow restriction $\leq 20$ l/min is recommended e.g. flow regulator MR04 or MR06 in inlet of valve is recommended.

● recommended    ○ not needed

The choice of flow restriction **b)** or **c)** is derived by the max. required in flow [e.g. in l/min] of the tank.