Horizontal Float Level Control Valve

Technical Drawing



Product Description

Horizontal float level control valves enable automatic water level control of tanks or reservoirs. The main valve is controlled by a 2-way pilot float. When the water level falls below the set level, the valve opens and begins filling the tank; when it reaches the set level, the valve closes, maintaining a constant water level. Plastic hoses and fittings are standard with BKV plastic control valves.

Production Standards

DN50

Pressure Range	1 bar ⟹ 16 bar
Connection	ISO (BSP)
Temperature	-10 °C +80 °C

Features

- Reliable hydraulic operation,
- Drip-proof sealing,
- Proportional flow,
- Fully automatic operation,
- Always full tank or reservoir,
- Easy level adjustment,
- Maintenance can be performed without removing it from the pipeline.

Application Areas

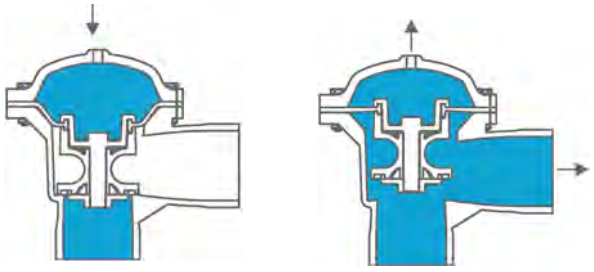
- Agricultural irrigation
- Industrial applications
- Irrigation and Drinking Water Systems

Working Principle

Closed position: The valve is closed by applying pressure to the diaphragm through fluid pressure.
Open position: Internal line pressure moves the diaphragm upwards, allowing flow.
Modulation position: The diaphragm remains in a fixed position by balancing the internal and external line pressures.

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- Mount the float-operated pilot valve, indicated by “d”, securely according to the water level in the tank or reservoir.
- Connect one end of the hydraulic pressure signal tube, supplied with the valve, to the ball valve indicated by “a”, and the other end to the float-operated pilot valve.
- Open the ball valves indicated by “a”.
- Adjust the opening and closing speed of the main valve using the needle valve indicated by “c”.



Diameter	2" DN50	2" 1/2" DN65	3" DN80
Code	D90YFV 50	D90YFV 65	D90YFV 80



Recommended Work Values

Working Pressure	Standard	1-16 bar (10-240 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Threaded	ISO (BSP) – ANSI (NPT)
Hydraulic Connections	Standard	Reinforced Nylon (Air Break) Hydraulic Hose
Current Links	Standard	Reinforced Nylon (Air Break) Hydraulic Hose

Globe Type Control Valves Size and Weight Table

DN		L		H		Weight	
inch	mm	inch	mm	inch	mm	lbs	kg
3”	80	11	280	10	250	5,5	2,5

NOTE: Weight and valve height (h) do not include accessories.

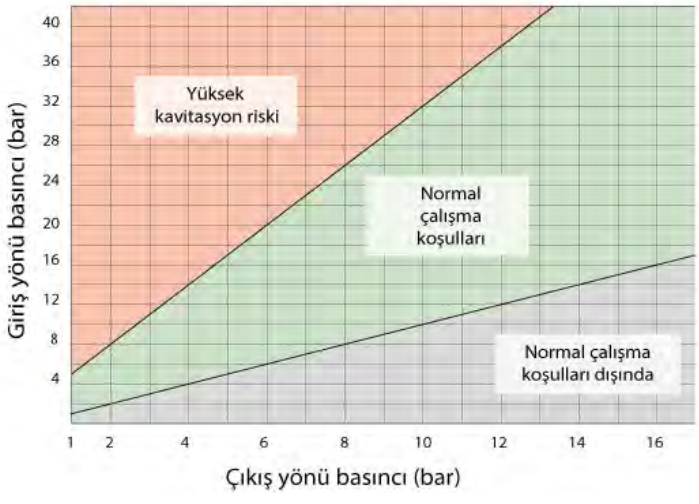
Main Parts

Example Application

Flow Performance

Diameter	mm	50	65	80	100
	İnch	2"	2½"	3"	4"
kv	m³/h- 1 Bar				

Cavitation Graph



Flow
(m3/h)

Pressure Loss Graph

