Electric Float Level Control Valve

Technical Drawing



Product Description

The Electric Float Level Control Valve is a valve that continuously monitors the water level using an electric float placed inside the tank. When the bottom water level drops below the desired value, the electric float sends a signal to the solenoid coil on the main valve. This causes the valve to open completely and keep the reservoir continuously full. When the water level reaches the maximum level, the electric switch sends another signal to the solenoid coil, and the valve closes. The valve can be operated horizontally or vertically in the system.

Production Standards

DN50

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

Features

- Operates with mains pressure, no extra energy required
- Easy maintenance
- Adjustable opening/closing speed (optional)
- Can be controlled at different voltages
- Manual opening/closing
- Low energy consumption
- Maintenance can be performed without removing it from the pipeline.

Application Areas

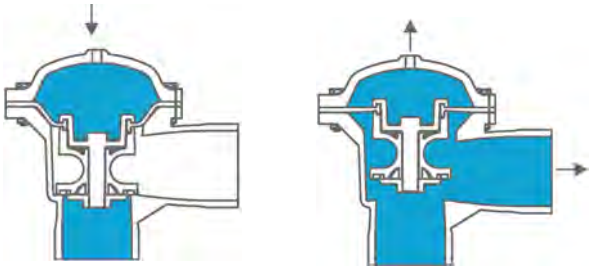
- Agricultural irrigation
- Industrial applications
- Irrigation and Drinking Water Systems

Adjustment

- Mount the electric float switch, indicated by “b”, securely according to the water level in the tank or reservoir and connect its wires to the control panel.
- Connect the wires of the solenoid pilot valve, indicated by “d”, to the control panel appropriately.
- Turn on the water.
- The valve will open when the solenoid is energized and close when it is de-energized.

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.



Diameter	2" DN50	2" 1/2" DN65	3" DN80
Code	D90EFV 50	D90EFV 65	D90EFV 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.

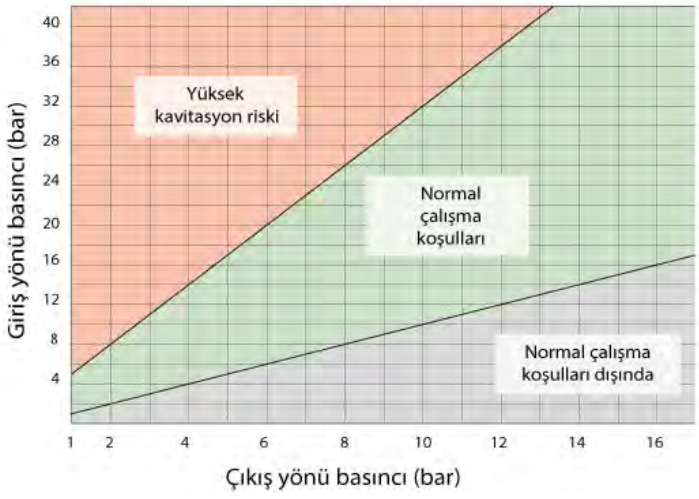
Main Parts

Example Application

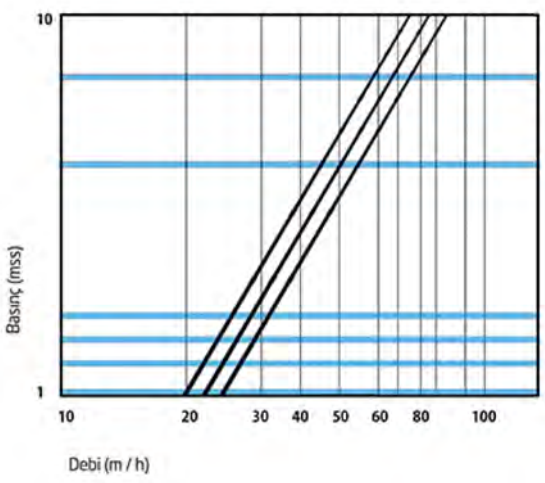
Flow Performance

Diameter	mm	50
	İnch	3"
kv	m^3/h- 1 Bar	

Cavitation Graph



Pressure Loss Graph



Flow
(m3/h)