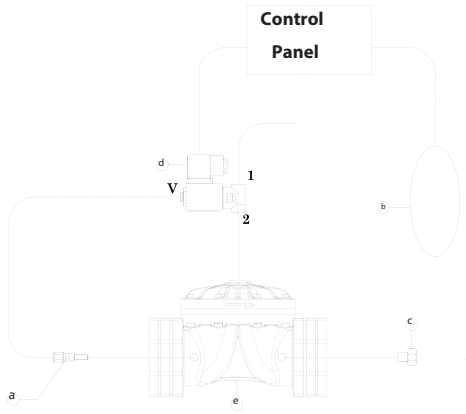
Electric Float Level Control Valve



Technical Drawing



a) Finger Filter
b) Electric Float
c) Blind Plug
d) Solenoid Valve
e) Main Body

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 ⟹ DN100	
Pressure Range	1 bar ⟹ 10 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

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.



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.

Diameter	2" / DN50	2 1/2" / DN65	3" / DN80	4" / DN100
Code	GP10EFV 50	GP10EFV 65	GP10EFV 80	GP10EFV 100



Recommended Work Values

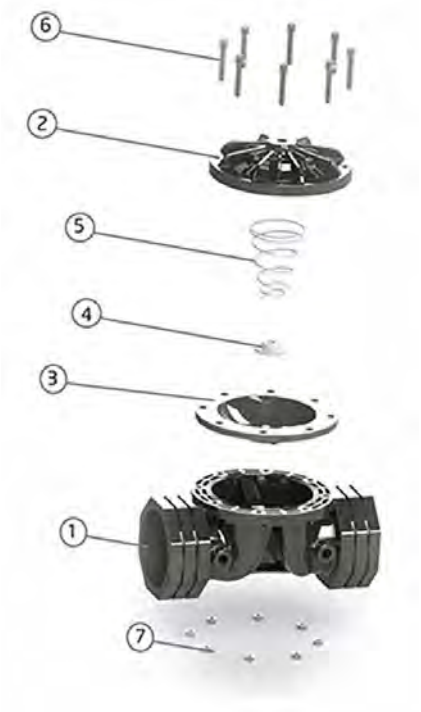
Working Pressure	Standard	1-10 bar (10-145 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Threaded	ISO (BSP) – ANSI (NPT)
Hydraulic Connections	Standard	Reinforced Nylon (Air Break) Hydraulic Hose
Current Connections	Standard	Reinforced Nylon (Air Break) Hydraulic Hose

Globe Type Control Valves Size and Weight Table

DN		L		H		Weight	
inch	mm	inch	mm	inch	mm	inch	mm
2"	50						
2 ½"	65						
3"	80						
4"	100						

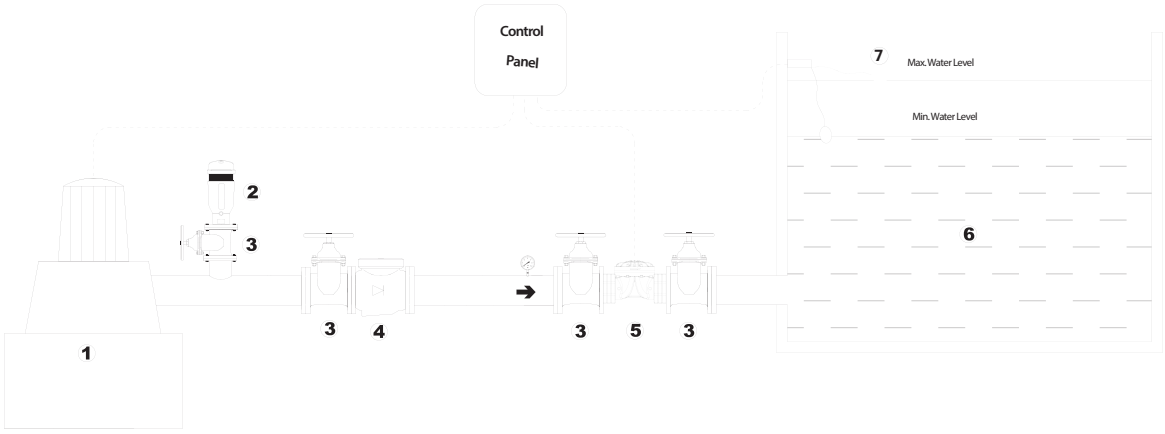
NOTE: Weight and valve height (h) do not include accessories.

Main Parts



1	Body	Reinforced Polyamide
2	Lıd	Reinforced Polyamide
3	Diaphragm	Court Fabric Reinforced Natural Rubber
4	Spring Release Ring	Reinforced Polyamide
5	Spring	Stainless
6	Bolt	Stainless
8	Nut	Ms-58

Example Application



1) Pump
2) Air Suction Cup
3) Isolation Valve
4) Check Valve
5) Electric Float Control Valve
6) Reservoir
7) Electric Float Switch

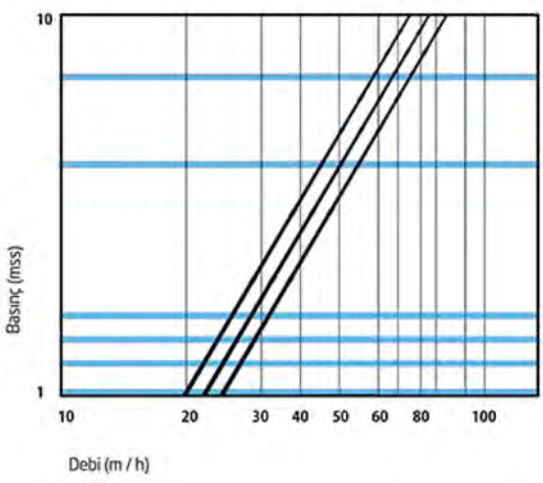
Flow Performance

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

Cavitation Graph



Pressure Loss Graph



Flow
(m3/h)