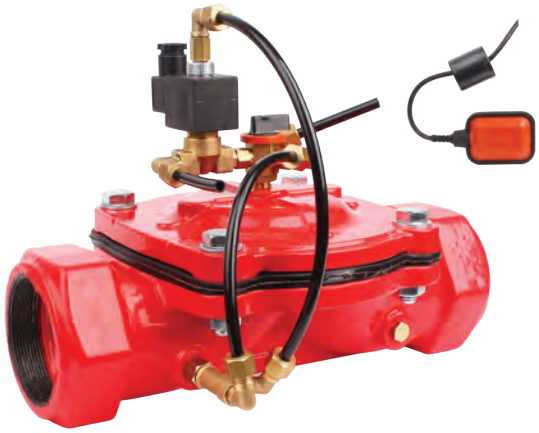
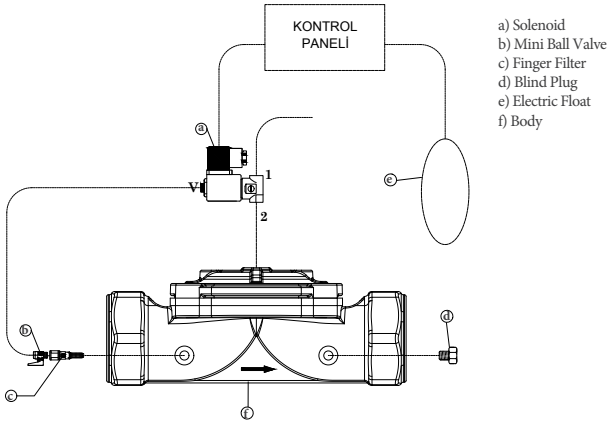


Technical Drawing



Product Description

BKV 516 Series Horizontal Float Level Control Valves provide automatic water level control for tanks or reservoirs. The main valve is controlled by an electric float. When the water level drops, the float sends a signal to the solenoid coil on the main valve, causing the valve to open; when it fills, it closes. When the set level is reached, the signal sent to the coil is cut off, and the valve closes, maintaining a constant tank level.

Production Standards

DN50 ⇒ DN80	
Pressure Range	1 bar ⇒ 16 bar
Connection	ISO (BSP) - ANSI (NPT)
Paint	Electrostatic Powder Coating
Temperature	-10 °C +80 °C

Features

- Operates using mains pressure and requires no extra energy
- Easy maintenance
- Can be controlled at different voltages
- Manual on/off
- Low energy consumption
- Maintenance can be performed without removing it from the pipeline.

Application Areas

- Agricultural irrigation
- Fire extinguishing
- 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 “e”, 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 “a”, 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
Code	GD16EFV 50	GD16EFV 65	GD16EFV 80



Recommended Work Values

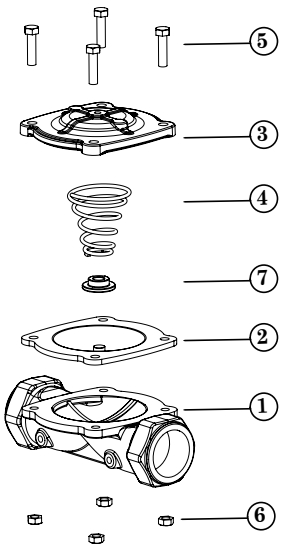
Working Pressure	Standard	1-16 bar (10-160 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Flanged	EN 1092-2 ISO 7005-2
	Threaded	ISO (BSP) – ANSI (NPT)
Paint Coating	Standard	Polyester
	Optional	Epoxy

Globe Type Control Valves Size and Weight Table

DN		L		D		H		WEIGHT	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
2”	50	8	205	6,5	165	6,5	165	18	8,5
2 ½”	65	8	205	7,3	185	7,3	185	22	10
3”	80	11,4	290	7,9	200	7,9	200	44	20

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

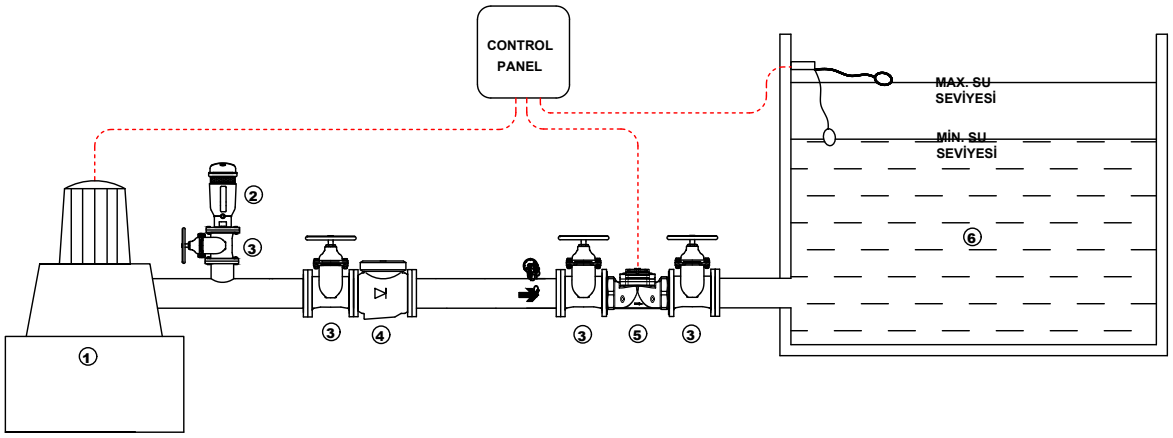
Main Parts



1	Body	GG 25 / GGG40 (EN-GJS 400-15)
2	Diaphragm	Court Fabric Reinforced Natural Rubber
3	Lid	GG 25 / GGG40 (EN-GJS 400-15)
4	Spring	Stainless
5	Bolt	Coated Steel
6	Nut	Coated Steel
7	Diaphragm Pressure Ring	Polyamid / Polyester

Maximum Working Pressure		Leakage Test Pressure		Body Test Pressure	
BAR	PSI	BAR	PSI	BAR	PSI
10	145	11	160	15	217
16	232	17,6	255	24	348

Example Application

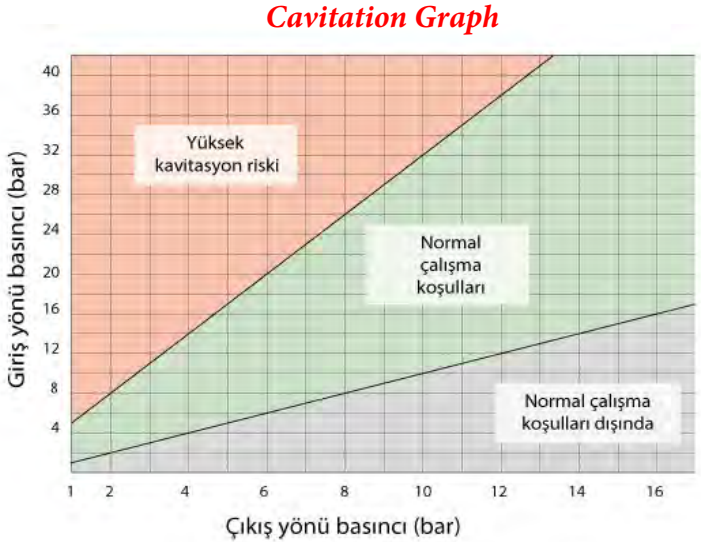


1) Pump
2) Air Suction Cup
3) Isolation Valve
4) Check Valve
5) Electric Float Level Control Valve
6) Reservoir
7) Electric Float

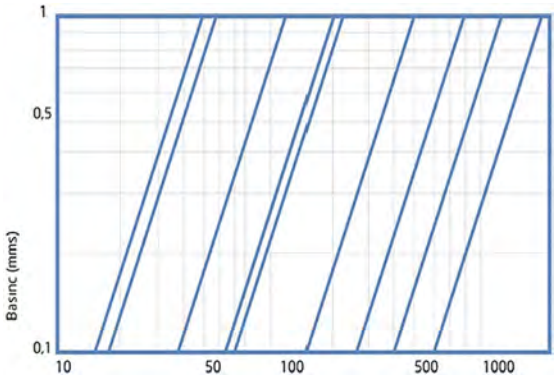
Flow Performance

Diameter	*mm*	*50*	*65*	*80*
	İnch	*2”*	*2½”*	*3”*
kv	*m³/h- 1 Bar*	*70*	*73*	*167*
		44	*46*	*96*

Cavitation Graph



Pressure Loss Graph



Flow m³/ h