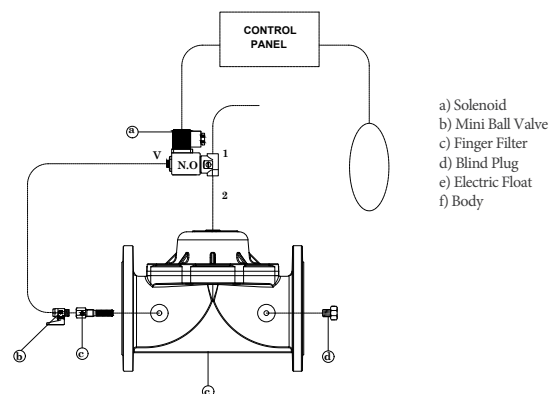




Technical Drawing



Product Description

BKV 216 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

DN40	⇒	DN300
Pressure Range	1 bar	⇒ 16 bar
Connection	Flanged EN1092-2	
Paint	Electrostatic Powder Coating	
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
- 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 causes the diaphragm to move upwards, allowing flow.
- Modulation position: Internal and external line pressures are balanced, keeping the diaphragm in a fixed position.

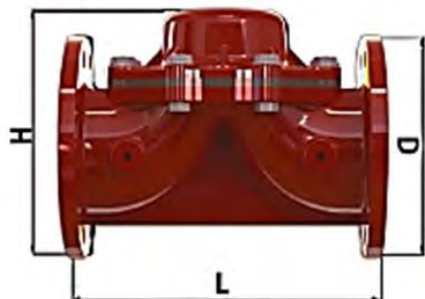


Adjustment

- 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.
- Then, turn on the water.

Diameter	1/2" DN40	2" DN50	2 1/2" DN65	3" DN80	4" DN100	5" DN125	6" DN150	8" DN200	10" DN250	12" DN300
Code	GF16EFV 40	GF16EFV 50	GF16EFV 65	GF16EFV 80	GF16EFV 100	GF16EFV 125	GF16EFV 150	GF16EFV 200	GF16EFV 250	GF16EFV 300

Recommended Work Values



Working Pressure	Standard	1-16 bar (10-240 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
1 1/2"	40								
2"	50	8	205	6,5	165	6,5	165	18	8,5
2 1/2"	65	8	205	7,3	185	7,3	185	22	10
3"	80	11,4	290	7,9	200	7,9	200	44	20
4"	100	11,6	295	8,7	220	8,7	220	49	22,5
5"	125	12,8	325	9,8	250	9,8	250	57	26
6"	150	16,3	415	11,2	285	12,6	320	108	49
8"	200	18,5	470	13,4	340	15,9	405	171	78
10"	250	18,7	475	15,9	405	16,9	430	231	105
12"	300	20,9	530	18,3	465	19,5	495	327	148,5

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

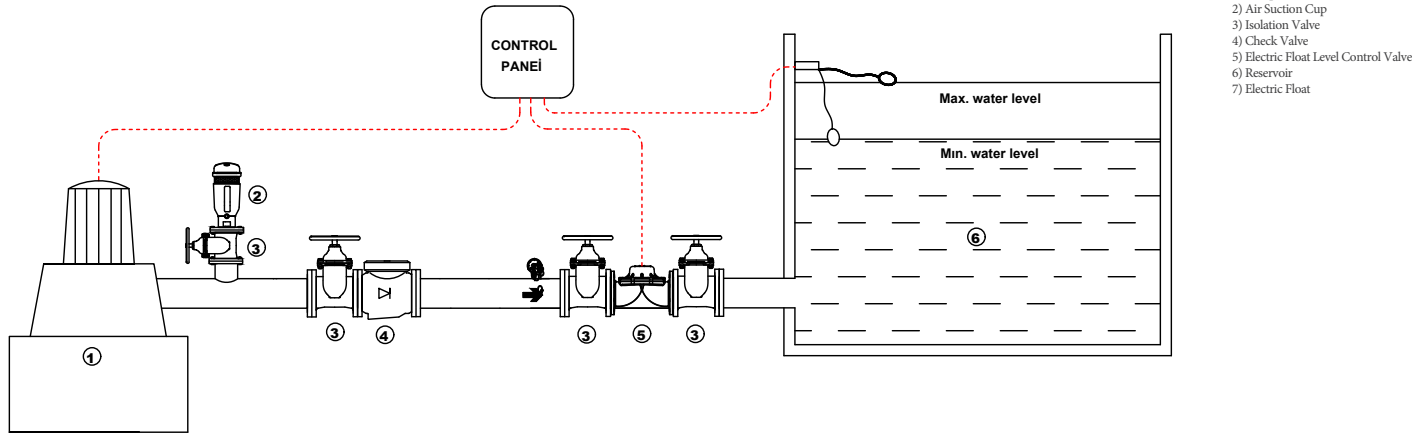
Main Parts



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	Rondela	Coated Steel
5	Bolt	Coated Steel
6	Nut	Coated Steel
7	Diaphragm Pressure Ring	Polyamid / Polyester
8	Spring	Stainless

Maximum Operating Function		Leakage Test		Body Test	
BAR	PSI	BAR	PSI	BAR	PSI
10	145	11	160	15	217
16	232	17,6	255	24	348
25	363	27,5	399	37,5	544

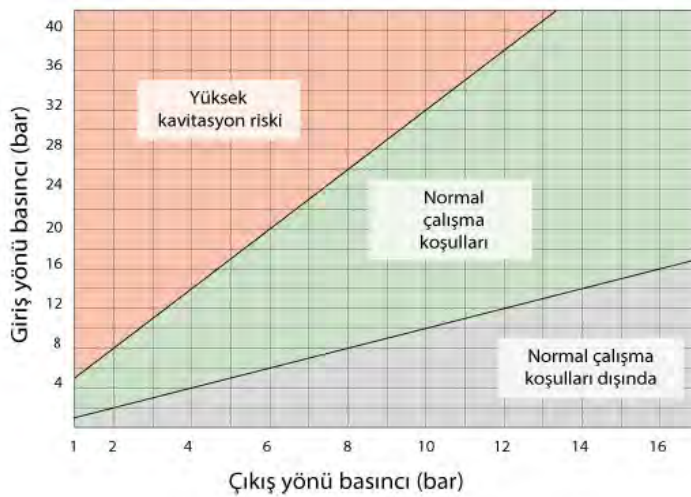
Example Application



Flow Performance

Nominal Diameter	mm	50	65	80	100	125	150	200	250	300
	Inch	2"	2½"	3"	4"	5"	6"	8"	10"	12"
kv	m³/h- 1 Bar	70	73	167	215	224	503	830	1300	1800
		44	46	96	168	171	388	685	1054	1565

Cavitation Graph



Pressure Loss Graph

