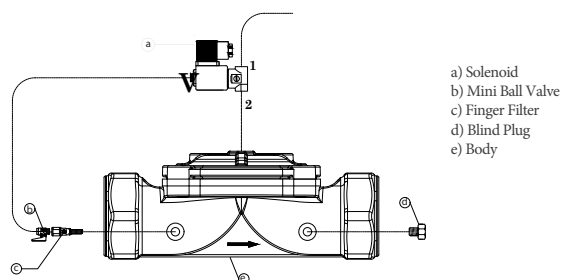




Technical Drawing



Product Description

BKV 510 Series Solenoid-Controlled On/Off Valves: These can be used as an alternative to classic on/off valves. The opening and closing operation is performed by a solenoid, remotely controlled. These valves are controlled by control devices, time relays, switches, PLC control units, etc.

Features

- Connect the solenoid valve located on the valve to the control device.
- Low energy consumption
- Minimum pressure loss
- Can be controlled at different voltages
- Maintenance can be performed without removing it from the pipeline.

Adjustment

- Connect the solenoid valve located on the valve to the control device.
- Start the pump.
- The valve will open when power is supplied to the coil, and will close when power is cut off.

Production Standards

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

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.



Diameter	2" / DN50	2" 1/2" / DN65	3" / DN80
Code	GD10EKV 50	GD10EKV 65	GD10EKV 80

Tavsiye Edilen Çalışma Değerleri



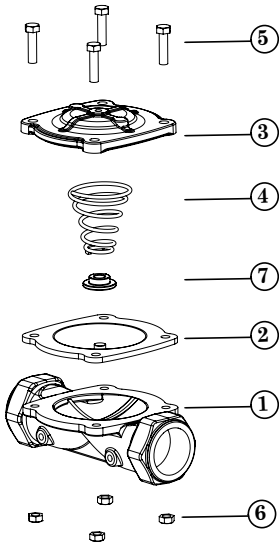
Working Pressure	Standard	1-16 bar (10-160 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Bağlantı	Flanged	EN 1092-2 ISO 7005-2
	Threaded	ISO (BSP) – ANSI (NPT)
Boya Kaplama	Standard	Polyester
	Optional	Epoxy

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.

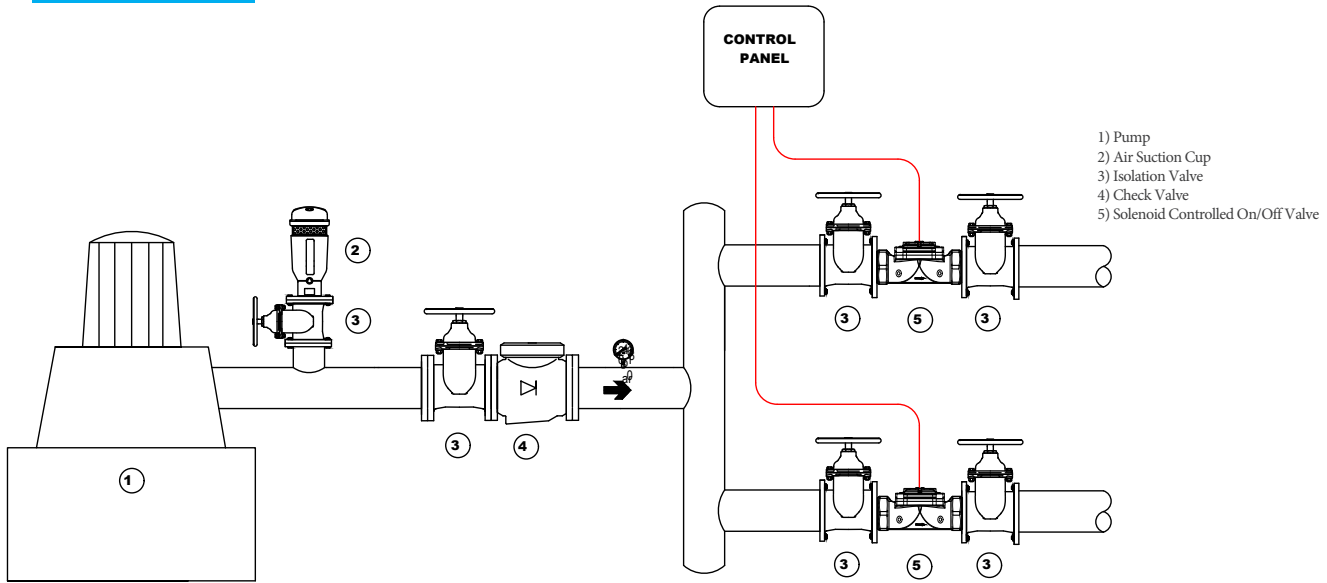
Main Parts



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

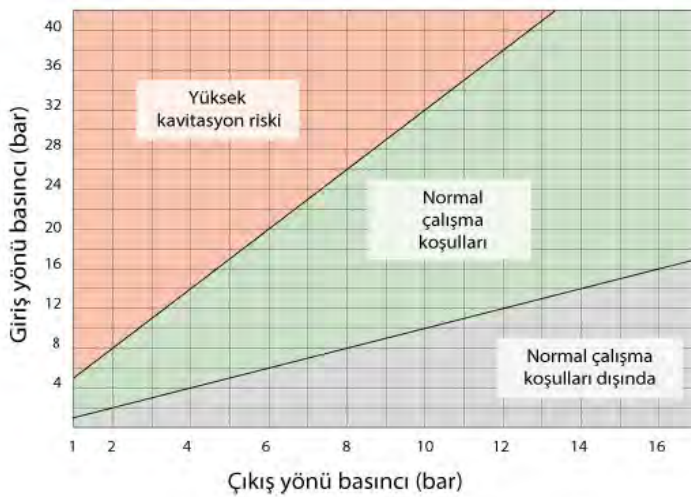
Example Application



Flow Performance

Diameter	mm	50	65	80
	Inch	2"	2½"	3"
kv	m ³ /h- 1 Bar	70	73	167
		44	46	96

Cavitation Graph



Pressure Loss Graph

