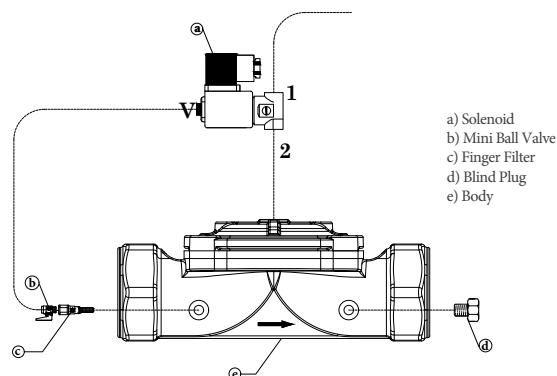




Technical Drawing



Product Description

BKV 216 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.

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

- Low energy consumption
- Minimum pressure loss
- Adjustable opening/closing speed (optional)
- Easy maintenance
- Ability to operate at different voltages
- 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 with 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

- Set the three-way selector switch on the valve to the Auto position.
- Connect the solenoid valve 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.

Diameter	2" / DN50	2 1/2" / DN65	3" / DN80
Code	GD16EKV 50	GD16EKV 65	GD16EKV 80

Recommended Work Values



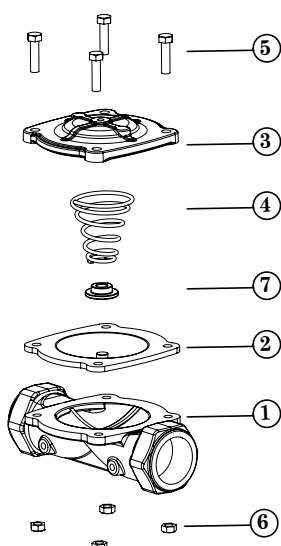
Working Pressure	Standard	1-16 bar (10-160 psi)
Temperature	Min. Operating Temperature	-10°C
	Max. Operating Temperature	+80°C
Connection	Flanged	EN 1092-2 ISO 7005-2
	Threaded	ISO (BSP) – ANSI (NPT)
Paint Coating	Standard	Polyester
	Optional	Epoksi

Globe Type Control Valves Size and Weight Table

DN		L		D		H		Weight	
<i>inch</i>	<i>mm</i>	<i>inch</i>	<i>mm</i>	<i>inch</i>	<i>mm</i>	<i>inch</i>	<i>mm</i>	<i>lbs</i>	<i>kg</i>
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.

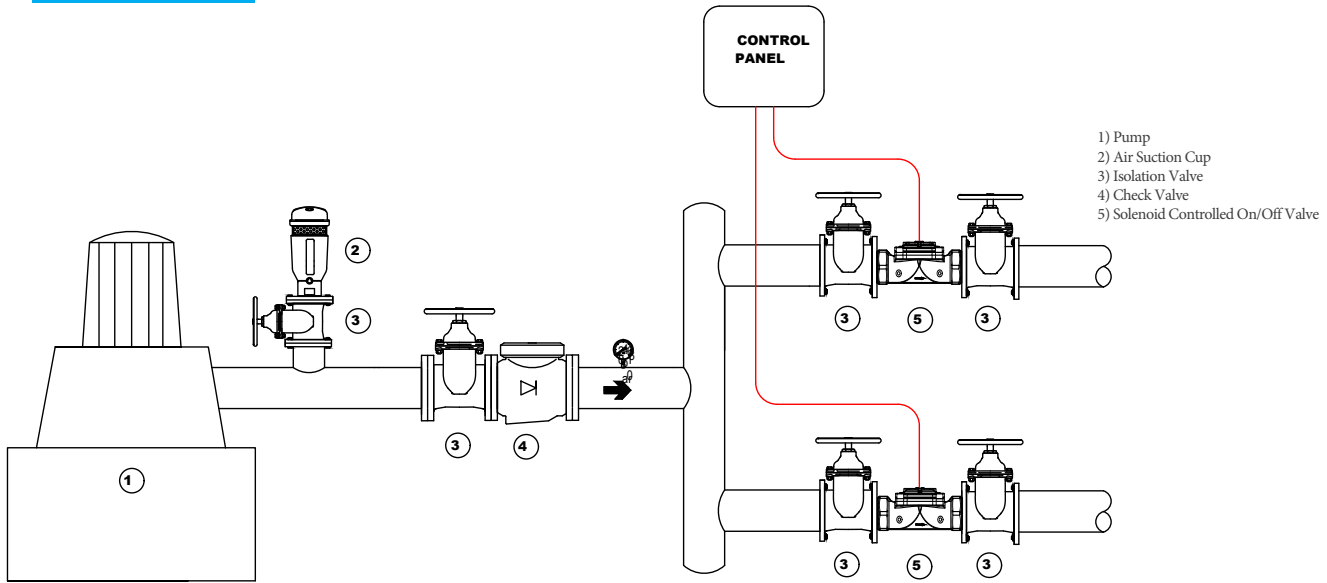
Main Parts



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

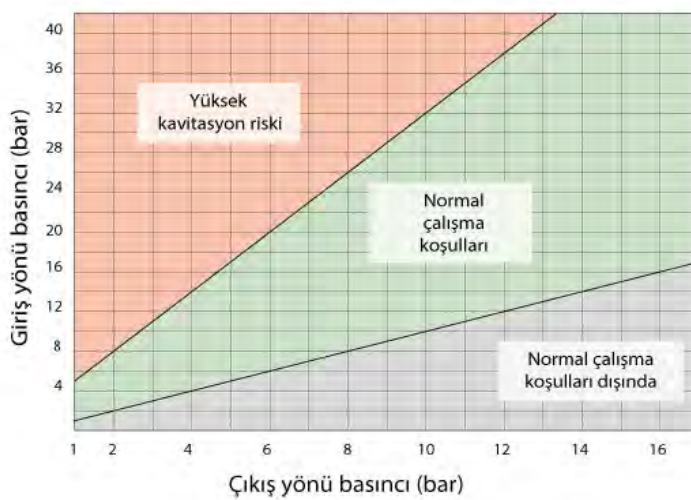
Example Application



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

