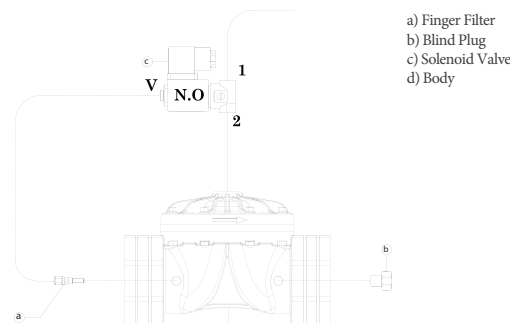




Technical Drawing



Product Description

Solenoid-controlled shut-off valves are hydraulic control valves that perform opening and closing operations by being controlled by an electrical signal from a solenoid mounted on them. These valves are controlled by control devices, time relays, switches, PLC control units, etc. Plastic hoses and fittings are standard in BKV plastic control valves.

Production Standards

DN50	⇒	DN100
Pressure Range		1 bar ⇒ 10 bar
Connection		ISO (BSP)
Temperature		-10 °C +80 °C

Features

- Low energy consumption
- Minimum pressure loss
- Easy maintenance
- Ability to control at different voltages.
- Maintenance can be performed without removing it from the pipeline.

Application Areas

- Agricultural irrigation
- Industrial Applications
- Irrigation and Drinking Water Systems

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.

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	4" DN100
Code	GP10EKV 50	GP10EKV 65	GP10EKV 80	GP10EKV 100

Recommended Work Values



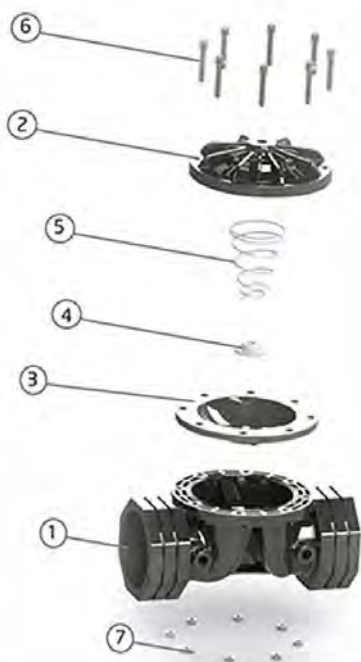
Working Pressure	Standard	1-10 bar (10-145 psi)
Temperature	Min. Operating Temperature	-10°C
	Max. Operating Temperature	+80°C
Connection	Threaded	ISO (BSP) – ANSI (NPT)
Hydraulic Connections	Standard	
Current Links	Standard	

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						

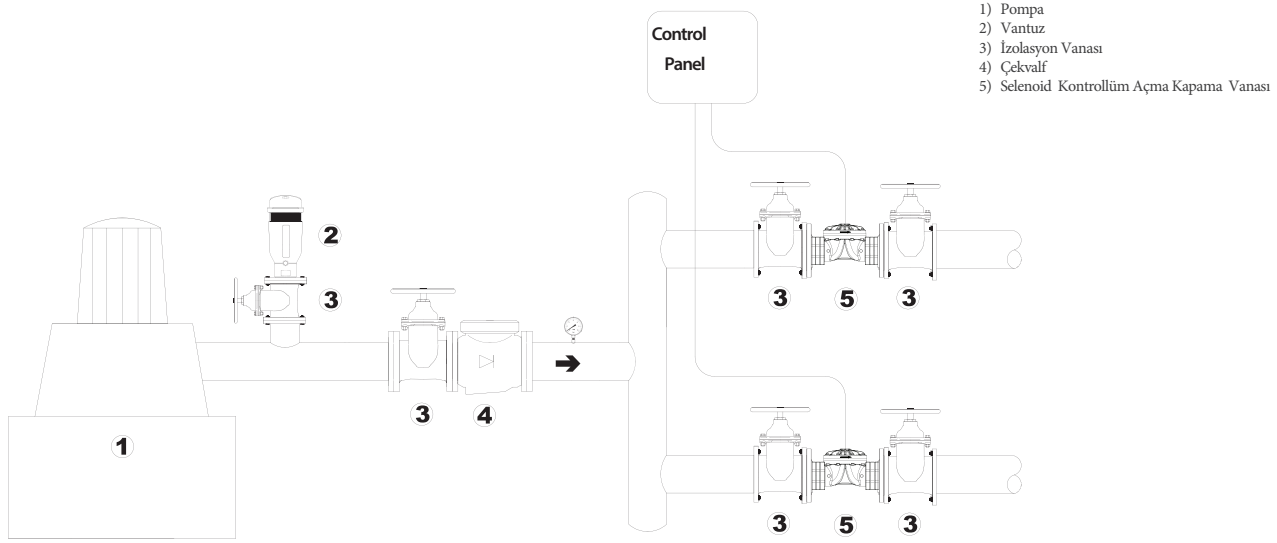
NOTE: Weight and valve height (h) do not include accessories.

Main Parts



1	Body	Reinforced Polyamide
2	Lid	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

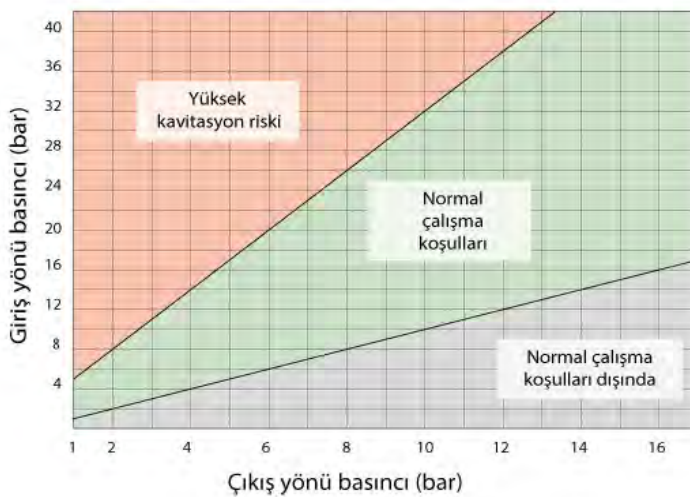
Örnek Uygulama



Flow Performance

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

Cavitation Graph



Pressure Loss Graph

