



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.

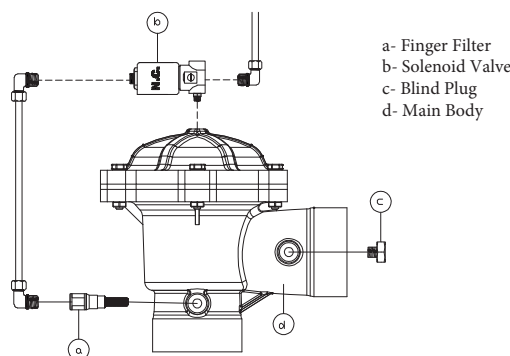
Features

- Low energy consumption
- Minimum pressure loss
- Easy maintenance
- Ability to operate 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.

Technical Drawing



Production Standards

DN80

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

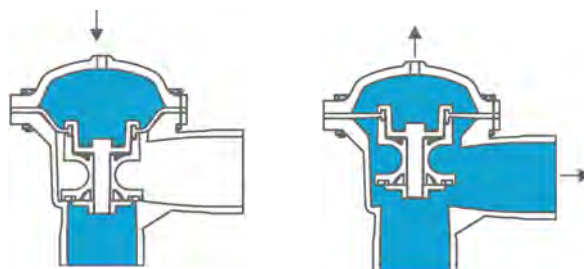
Application Areas

- 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.



Diameter	2" / DN50	2 1/2" / DN65	3" / DN80
Code	P90EKV 50	P90EKV 65	P90EKV 80



Recommended Work Values

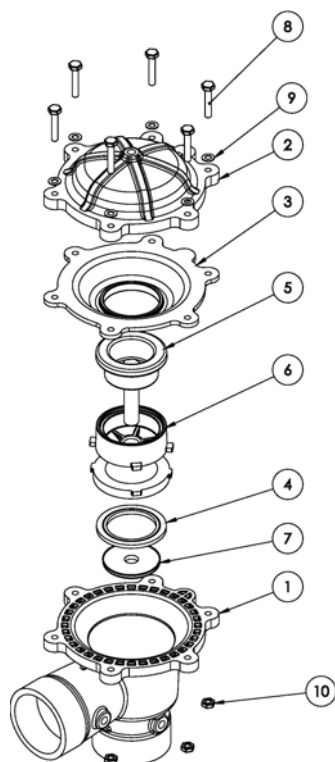
Working Pressure	Standard	1-10 bar (10-145 psi)
Temperature	Min. Operating Temperature	-10°C
	Max. Operating Temperature	+80°C
Connection	Threaded	ISO (BSP) – ANSI (NPT)
Hydraulic Connections	Standard	Reinforced Nylon (Air Break) Hydraulic Hose
Current Links	Standard	Reinforced Nylon (Air Break) Hydraulic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

Globe Type Control Valves Size and Weight Table

DN		L		H		Weight	
inch	mm	inch	mm	inch	mm	lbs	kg
3"	80	11	280	10	250	5,5	2,5

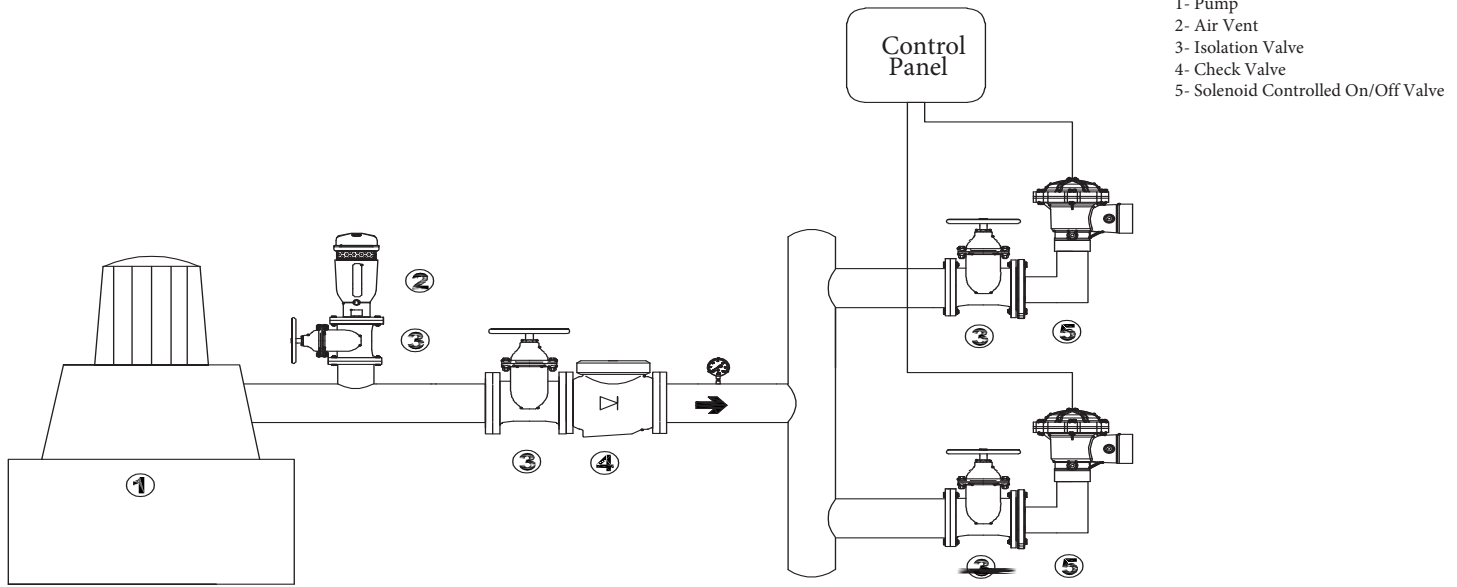
NOTE: Weight and valve height (h) do not include accessories.

Main Parts



1	Body	Polyamide with glass fiber reinforcement
2	Lid	Reinforced Polyamide
3	Diaphragm	Natural Rubber
4	Flap seal	Natural Rubber
5	Flap Top Connection	Polyamide with glass fiber reinforcement
6	Flap seal	Polyamidewithglassfiberreinforcement
7	Flap nut	Polyamide with glass fiber reinforcement
8	M8x45 Bolt	Stainless Steel (A2)
9	M8 Stamp	Stainless Steel (A2)
10	M8 Nut	Stainless Steel (A2)

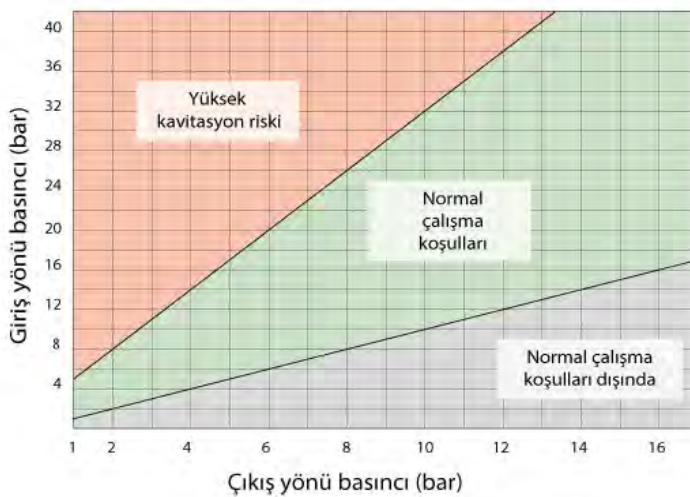
Example Application



Flow Performance

Diameter	mm	50
	Inch	3"
kv	m ³ /h- 1 Bar	

Cavitation Graph



Flow
(m³/h)

Pressure Loss Graph

