Solenoid-controlled on/off control valve



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

Pressure Range	1 bar ⟹ 16 bar
Connection	ISO (BSP)
Temperature	-10 °C +80 °C

Features

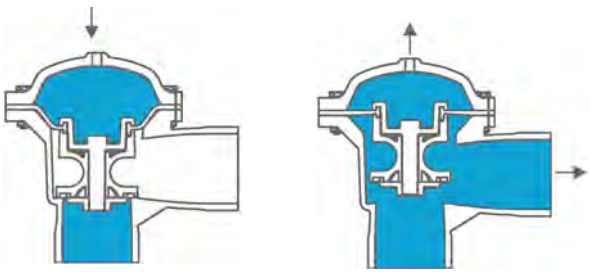
- Low energy consumption
- Minimum pressure loss
- Easy maintenance
- Ability to operate at different voltages
- Maintenance can be performed without removing it from the pipeline.

Application Areas

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

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.



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.

Diameter	2" DN50	2" 1/2" DN65	3" DN80
Code	D90EKV 50	D90EKV 65	D90EKV 80



Recommended Work Values

Working Pressure	Standard	1-16 bar (10-240 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.

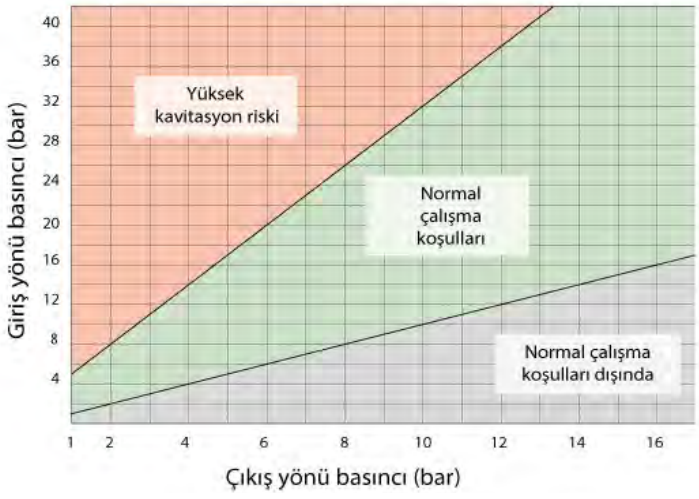
Main Parts

Example Application

Flow Performance

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

Cavitation Graph



Flow
(m3/h)

Pressure Loss Graph

