Manually Controlled On/Off Control Valve



Technical Drawing

Product Description

Manually controlled shut-off valves are hydraulic control valves that perform opening and closing operations by being controlled via a 3-way selector valve mounted on them. These valves are controlled manually. 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

- Minimum pressure loss
- Adjustable opening/closing speed (optional)
- Easy maintenance
- Maintenance can be performed without removing it from the pipeline.

Application Areas

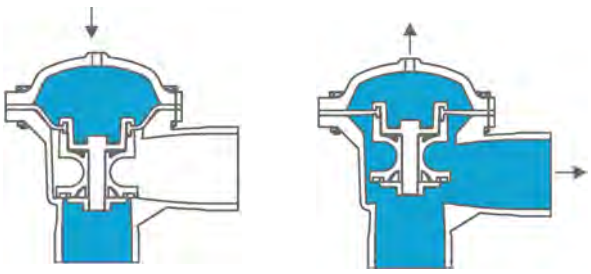
- **Agricultural irrigation**
- **Industrial applications**
- **Irrigation and Drinking Water Systems**

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.

Adjustment

- Connect the valve to the main line.
- The 3-way selector valve will open in the open position.
- It will close in the close position.



Diameter	2" DN50	2" 1/2" DN65	3" DN80
Code	D90MV 50	D90MV 65	D90MV 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.

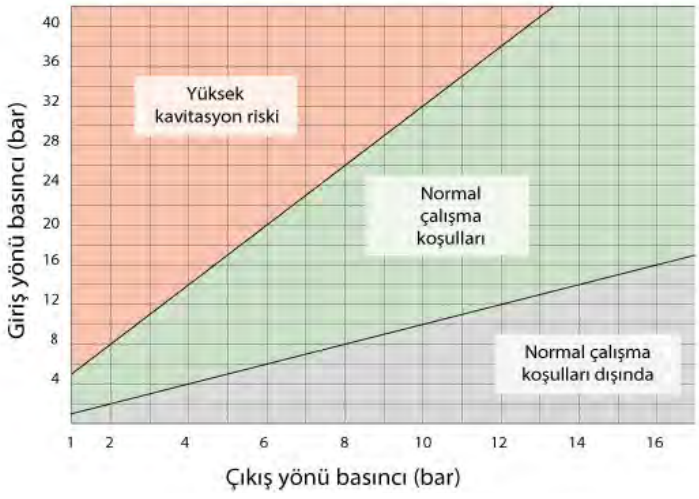
Main Parts

Example Application

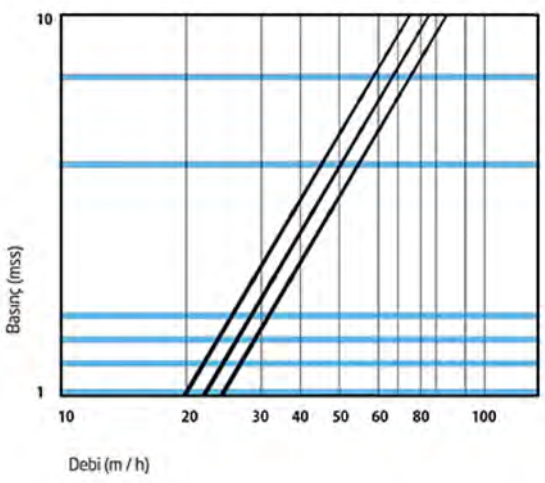
Flow Performance

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

Cavitation Graph



Pressure Loss Graph



Flow
(m3/h)