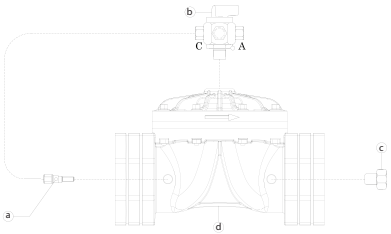
CONTROL VALVES

300 Series Plastic Control Valve

Manually Controlled On/Off Control Valve





a) Finger Filter
b) 3-Way Selector Valve
c) Blind Plug
d) Body

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 ⟹ DN100	
Pressure Range	1 bar ⟹ 10 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 with fluid pressure.
Open position: Flow is provided by the internal line pressure moving the diaphragm upwards.
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	4" DN100
Code	GP10MV 50	GP10MV 65	GP10MV 80	GP10MV 100



Recommended Work Values

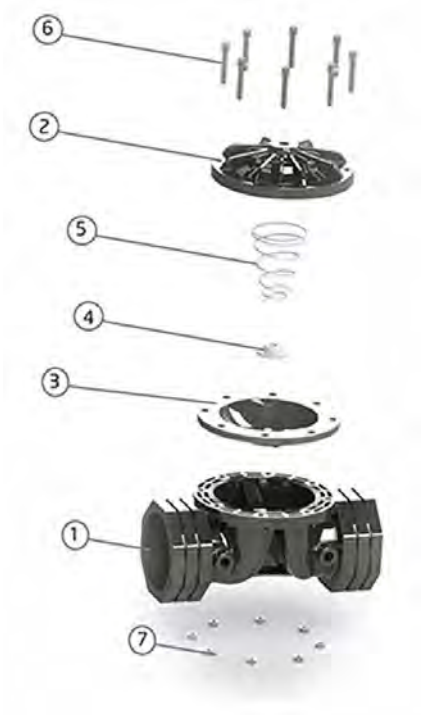
Working Pressure	Standard	1-10 bar (10-145 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Threaded	ISO (BSP) – ANSI (NPT)
Hydraulic Connections	Standard	Reinforced Nylon (Air Break) Hydraulic Hose
Current Links	Standard	Reinforced Nylon (Air Break) Hydraulic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

Globe Type Control Valves Size and Weight Table

DN		L		H		Weight	
inch	mm	inch	mm	inch	mm	inch	mm
2"	50						
2 ½"	65						
3"	80						
4"	100						

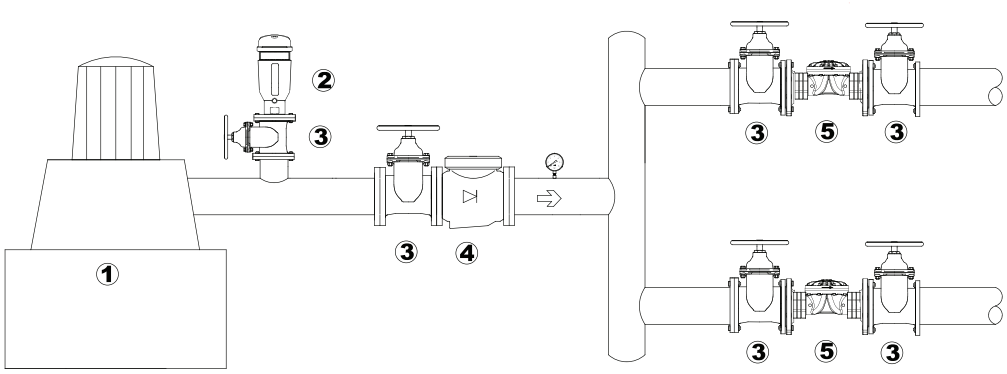
NOTE: Weight and valve height (h) do not include accessories.

Main Parts



1	Body	Reinforced Polyamide
2	Lıd	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

Example Application



1) Pump
2) Air Suction Cup
3) Isolation Valve
4) Check Valve
5) Manual Control Valve

Flow Performance

Diameter	mm	50	65	80	100
	İnch	2"	2½"	3"	4"
kv	m³/h- 1 Bar				

Cavitation Graph



Flow
(m3/h)

Pressure Loss Graph

