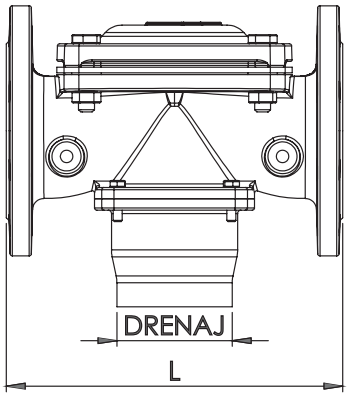
Cast Iron Backwash Control Valve



Technical Drawing



Product Description

BKV backwash control valves are 3-way control valves that operate with line pressure, especially in drip irrigation projects and filtration systems. Positioned before the filter, backwash valves work in coordination with the filter elements in the system. Operating in filtration and backwash modes, the valves direct the dirty water from the line to the filter. Filters become contaminated as a result of particles in the water. The diaphragm-flap mechanism of the valve operates in two directions. When the valve switches from filtration mode to backwash mode, it changes the direction of the flap, opening the discharge path. In this way, it cleans the filter elements in the best way, either manually or automatically.

Production Standards

DN80 ⟹ DN 100

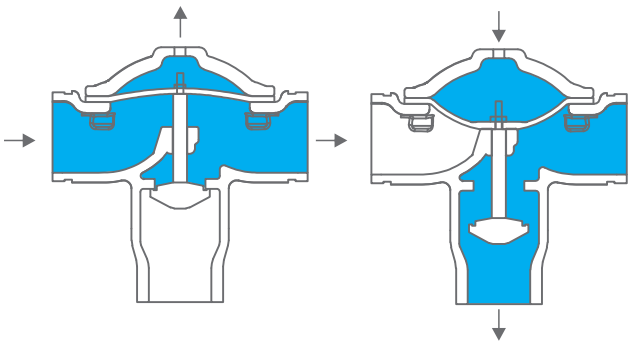
Pressure Range	1 bar ⟹ 10 bar
Connection	Flanged EN 1092 -2
Temperature	-10 °C +80 °C

Application Areas

- 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.



FILTER MODE DRAINAGE MODE

Diameter	3"x2" Victaulic (Metal)	4"x3" Victaulic (Metal)
Code	F-TYV	F-TYV
DN	80	100



Recommended Work Values

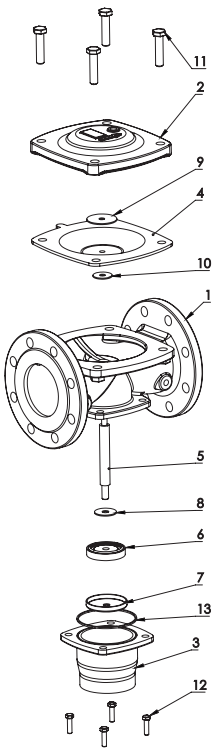
Working Pressure	Standard	1-10 bar (10-145 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Flanged	EN 1092 - 2
Hydraulic Connections	Standard	Reinforced Nylon (Air Break) Hydraulic Hose
Current Links	Standard	Reinforced Nylon (Air Break) Hydraulic Hose

Globe Type Control Valves Size and Weight Table

DN	L	H	Weight	Discharge Information	Connection Type
mm	mm	mm	mm		
80	290		23 kg	2" BSP	3" Flanşlı
100	300		27 kg	3" BSP	3" Flanşlı

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

Main Parts



1	Main Body	GGG 40 Sfero Cast iron
2	Lid	GGG 40 Sfero Cast iron
3	Drainage	GGG 40 Sfero Cast iron
4	Diaphragm	EPDM
5	Shaft	SS 303 Stainless
6	Piston Valve	Natural Rubber
7	Piston Bearing Plate	Galvanized Sheet Metal
8	Stamp	SS 304 Stainless
9	Diaphragm Printing Stamp (Large)	SS 304 Stainless
10	Diaphragm Printing Stamp (Small)	SS 304 Stainless
11	Cover Bolt	8,8 Galvanized
12	Drainage Bolt	8,8 Galvanized
13	Drainage O-Ring	EPDM

Flow Performance

Diameter	mm	80
	İnch	3"
kv	m^3/h- 1 Bar	