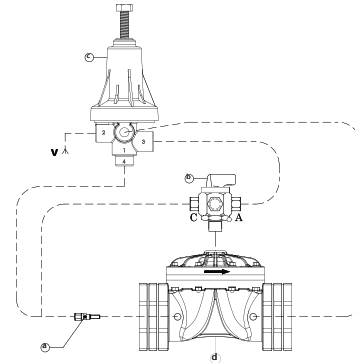




Technical Drawing



- a) Finger Filter
- b) 3-Way Selector Valve
- c) Pilot Pressure Reducer
- d) Body

Product Description

Pressure reducing control valves are hydraulic control valves that reduce a high inlet pressure to a lower pressure than desired. The pressure reducing control valve controls and maintains the desired outlet pressure without being affected by flow rate and inlet pressure values. When the valve inlet pressure in the system falls below the set outlet pressure value, the valve opens completely.

The valve can be used in horizontal or vertical positions in the system. 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

- Simple structure for easy operation and maintenance
- Low cost
- Operation over a wide pressure range
- Flawless modulation even at low flow rates
- Impact-free opening and closing with flexible diaphragm
- Complete sealing with reinforced diaphragm and internal spring
- Very wide range of control applications with the use of different pilot valves
- Ability to operate in horizontal and vertical positions in application areas
- Maintenance can be performed without removing it from the pipeline.

Adjustment

- Connect the valve to the line.
- Set the 3-way selector valve to the Auto position.
- You can increase or decrease the outlet pressure by tightening or loosening the adjustment screw on the pilot marked 'c'.
- Once the desired pressure is reached, tighten the lock nut to secure the pressure.

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.



Diameter	2" / DN50	2 1/2" / DN65	3" / DN80	4" / DN100
Code	GP10BDV 50	GP10BDV 65	GP10BDV 80	GP10BDV 100

Tavsiye Edilen Çalışma Değerleri



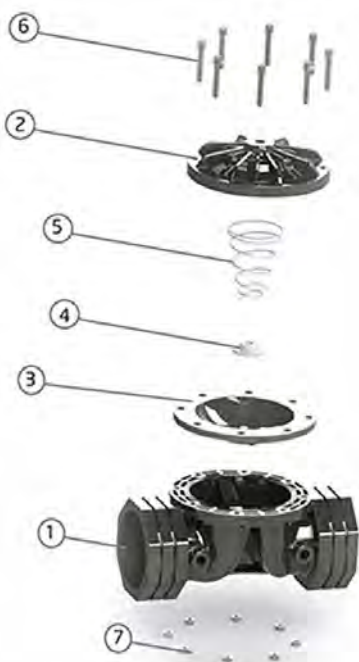
Working Pressure	Standard	1-10 bar (10-145 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connecrion	Threaded	ISO (BSP) – ANSI (NPT)
Hydraulic Connections	Standard	Reinforced Nylon (Air Break) Hydraulic Hose
Current Links	Standard	Reinforced Nylon (Air Break) Hydraulic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

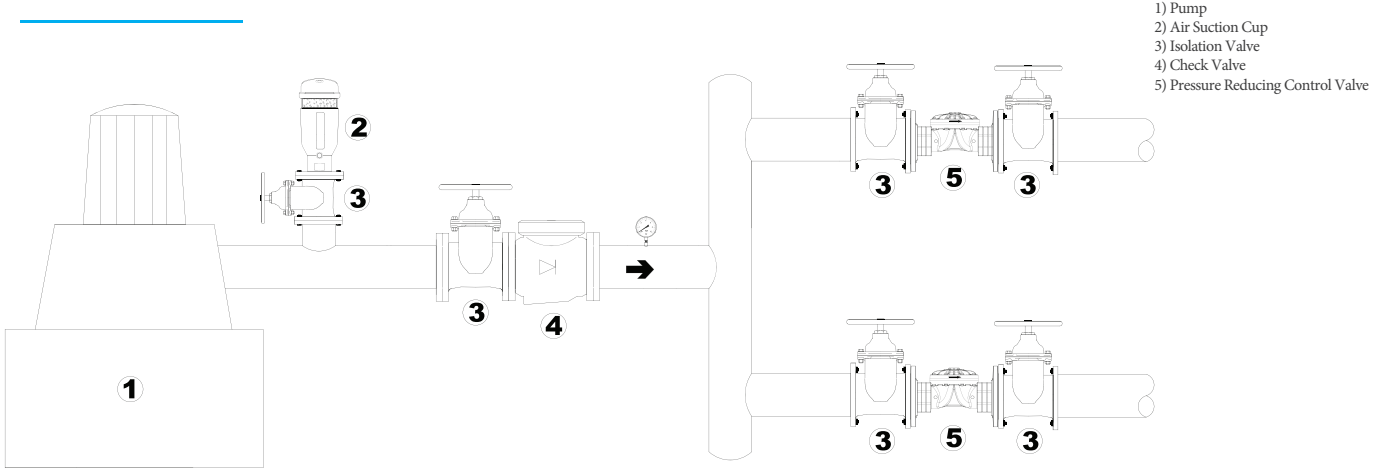
NOTE: Weight and valve height (h) do not include accessories.

Main Parts



1	body	Reinforced Polyamide
2	Lid	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

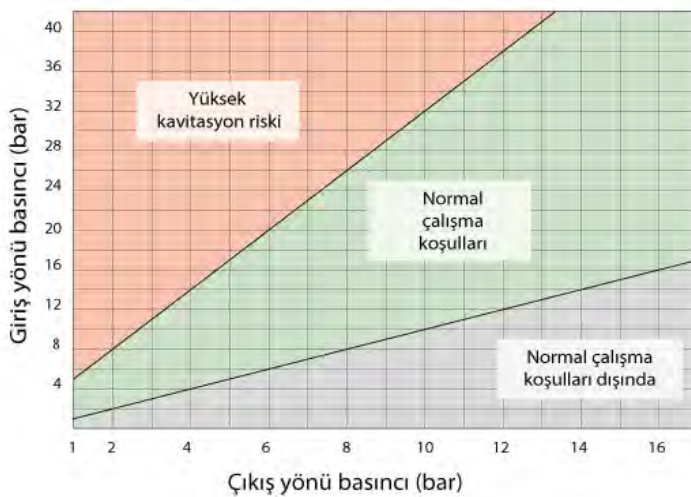
Example Application



Flow Performance

Nominal diameter	mm	50	65	80	100
	Inch	2"	2½"	3"	4"
kv	m ³ /h- 1 Bar				

Cavitation Graph



Pressure Loss Graph

