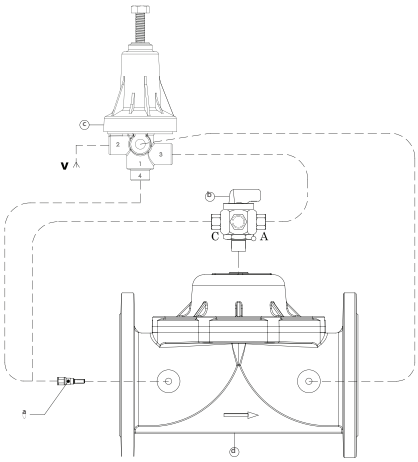


Technical Drawing



a- Finger Filter
b- 3-Way Selector Valve
c- Pressure Reducing Control Valve
d- Body

Product Description

The BKV 210 Series Pressure Reducing Valve is designed to adjust the inlet pressure to the desired outlet pressure. Globe-type pressure reducing valves offer a wide flow range while minimizing pressure loss. The valve's pressure regulator reduces the pressure to the desired level, ensuring smooth fluid transfer. Pressure adjustment in globe-type valves is done with a single adjustment screw.

When the outlet pressure exceeds the set pressure, the control valve closes drip-tight. The control system is highly sensitive to slight pressure changes and instantly controls the main valve to maintain the desired outlet pressure.

Production Standards

DN40 ⟹ DN150	
Pressure Range	1 bar ⟹ 10 bar
Connection	Flanged EN1092-2
Paint	Electrostatic Powder Coating
Temperature	-10 °C +80 °C

Features

- The diameter of the pressure reducing valve must be the same as the diameter of the line.
- Maximum flow rate, operating pressure, line diameter, etc. should be specified during product ordering.

The connection type, maximum inlet pressure, and desired outlet pressure value must be specified.

- Horizontal and vertical mounting is possible.
- The outlet pressure is kept constant at the desired value without being affected by inlet pressure fluctuations.
- It provides low pressure loss and regular flow.
- It operates with the pressure in the network or line and does not require extra energy.
- It is not affected by pressure and flow rate changes in the system.
- 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.

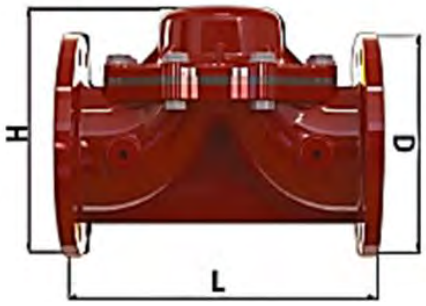
Application Areas

- 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.





Recommended Work Values

Working Pressure	Standard	1-16 bar (10-240 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Flanged	EN 1092-2 ISO 7005-2
	Threaded	ISO (BSP) – ANSI (NPT)
Paint Coating	Standartd	Polyester
	Optional	Epoxy

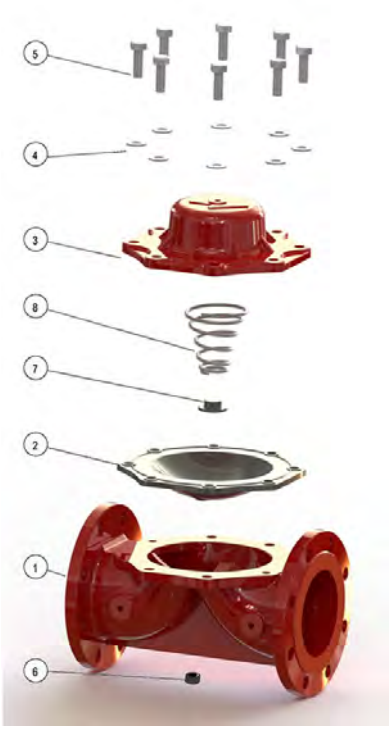
Globe Type Control Valves Size and Weight Table

DN		L		D		H		WEIGHT	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
1 1/2"	40								
2"	50	8	205	6,5	165	6,5	165	18	8,5
2 ½"	65	8	205	7,3	185	7,3	185	22	10
3"	80	11,4	290	7,9	200	7,9	200	44	20
4"	100	11,6	295	8,7	220	8,7	220	49	22,5
5"	125	12,8	325	9,8	250	9,8	250	57	26
6"	150	16,3	415	11,2	285	12,6	320	108	49

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

Main Parts

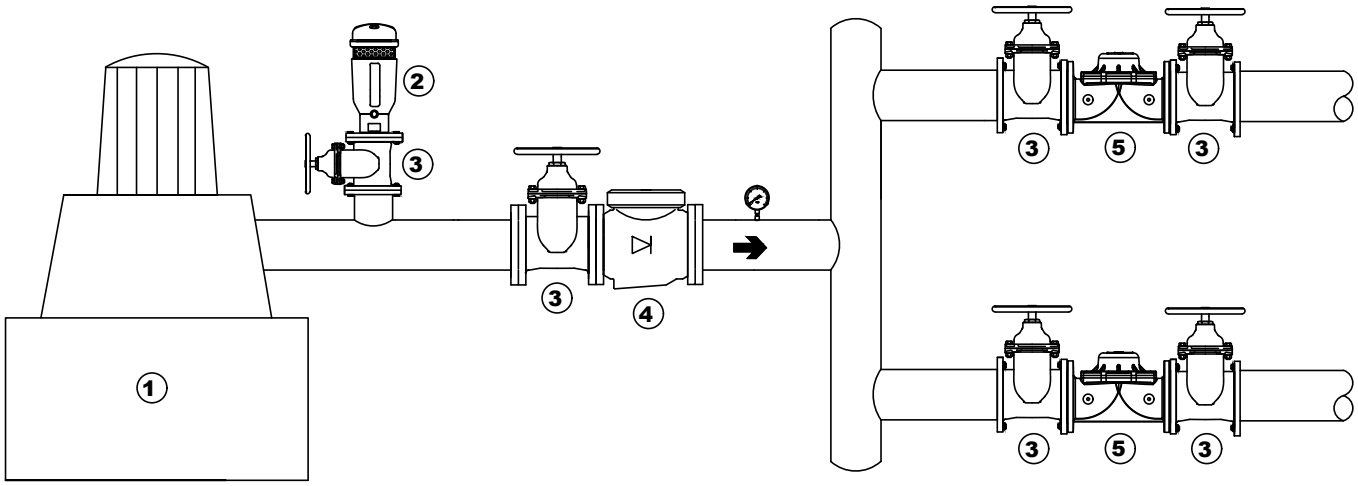


1	Body	GG 25 / GGG40 (EN-GJS 400-15)
2	Diaphragm	Court Fabric Reinforced Natural Rubber
3	Lid	GG 25 / GGG40 (EN-GJS 400-15)
4	Rondela	Coated Steel
5	Bolt	Coated Steel
6	Nut	Coated Steel
7	Diaphragm Pressure Ring	Polyamid / Polyester
8	Spring	Stainless

Maximum Operating Function		Leakage Test		Body Test	
BAR	PSI	BAR	PSI	BAR	PSI
10	145	11	160	15	217

Example Application

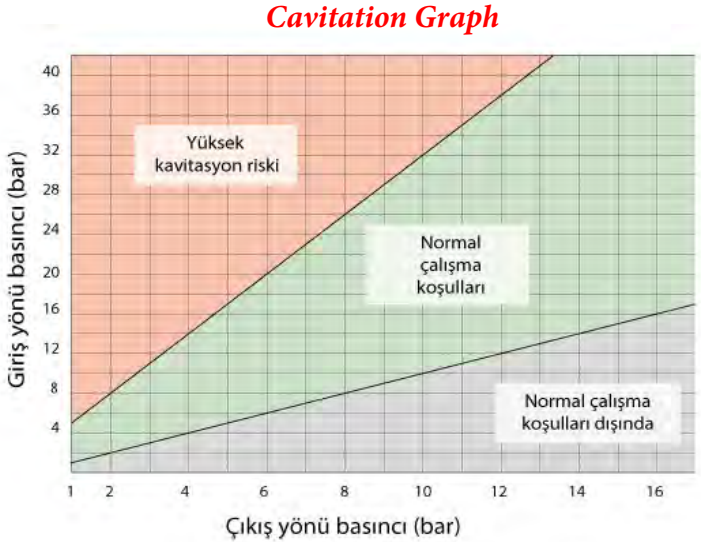
1) Pump
2) Air Suction Cup
3) Isolation Valve
4) Check Valve
5) Pressure Reducing Control Valve



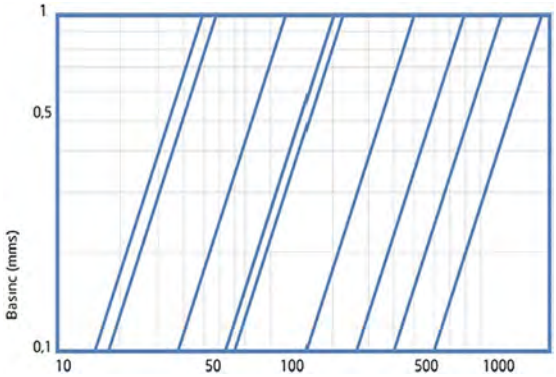
Flow Performance

Nominal Diameter	mm	50	65	80	100	125	150	200	250	300
	İnch	2"	2½"	3"	4"	5"	6"	8"	10"	12"
kv	m³/h- 1 Bar	70	73	167	215	224	503	830	1300	1800
		44	46	96	168	171	388	685	1054	1565

Cavitation Graph



Pressure Loss Graph



Flow m³/ h