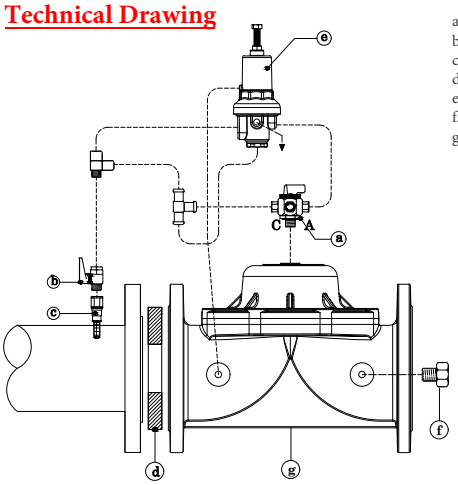


Technical Drawing



a. 3-Way Selector Valve
b. Mini Ball Valve
c. Finger Filter
d. Orifice Plate
e. Flow Control Pilot
f. Blind Plug
g. Body

Product Description

BKV 216 Series Flow Control Valves; Flow control valves are designed to prevent the amount of water flowing through the network from exceeding the desired flow rate. These valves automatically maintain the flow rate at the desired level using a pilot light, counteracting pressure fluctuations in the network.

Production Standards

DN40 ⇒ DN300	
Pressure Range	1 bar ⇒ 16 bar
Connection	Flanged EN1092-2
Paint	Electrostatic Powder Coating
Temperature	-10 °C +80 °C

Features

Precise Flow Rate Control: Precisely controls and maintains the fluid flow at the desired level, ensuring efficient system operation.
Durable Material: Made of stainless steel and high-quality plastic materials, it withstands harsh conditions and provides long-lasting performance.
Easy Installation and Maintenance: User-friendly design allows for quick installation and maintenance.
Energy and Water Saving:
Flow management saves energy and water, reducing operating costs.
Maintenance can be performed without removing it from the pipeline.

Application Areas

- Irrıgatıon
- Fire extinguishing
- Industrial Applications
- Irrigation and Drinking Water Systems

Working Principle

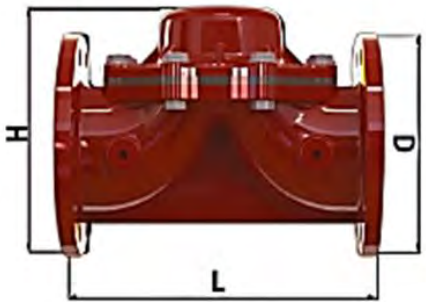
➢ Closed position: The valve is closed by applying pressure to the diaphragm with fluid pressure.
➢ Open position: Internal line pressure moves the diaphragm upwards, allowing flow.
➢ Modulation position: The diaphragm remains in a fixed position by balancing the internal and external line pressures.

Adjustment

➢ Start the pump or open the main valve on the network to supply water to the system.
➢ Open the ball valve indicated by b1.
➢ Set the 3-way (a) selector valve on the valve to the auto position.
➢ The pilot valve adjustment bolt is factory adjusted according to the desired flow rate.
➢ Do not tamper with the pilot valve adjustment bolt.
➢ If the valve does not provide the necessary regulation, contact our company.



Diameter	1/2" DN40	2" DN50	2 1/2" DN65	3" DN80	4" DN100	5" DN125	6" DN150	8" DN200	10" DN250	12" DN300
Code	GF16DKV 40	GF16DKV 50	GF16DKV 65	GF16DKV 80	GF16DKV 100	GF16DKV 125	GF16DKV 150	GF16DKV 200	GF16DKV 250	GF16DKV 300



Recommended Work Values

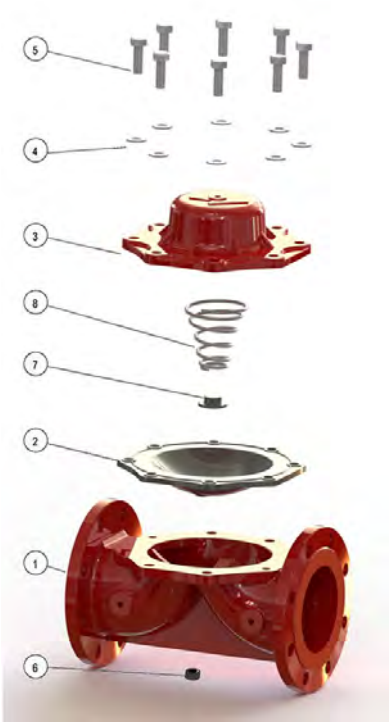
Working Pressure	Standard	1-16 bar (10-240 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Flanged	EN 1092-2 ISO 7005-2
	Threaded	ISO (BSP) – ANSI (NPT)
Paint Coating	Standard	Polyester
	Optional	Epoxy

Globe Type Control Valves Size and Weight Table

DN		L		D		H		Weightg	
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
8"	200	18,5	470	13,4	340	15,9	405	171	78
10"	250	18,7	475	15,9	405	16,9	430	231	105
12"	300	20,9	530	18,3	465	19,5	495	327	148,5

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

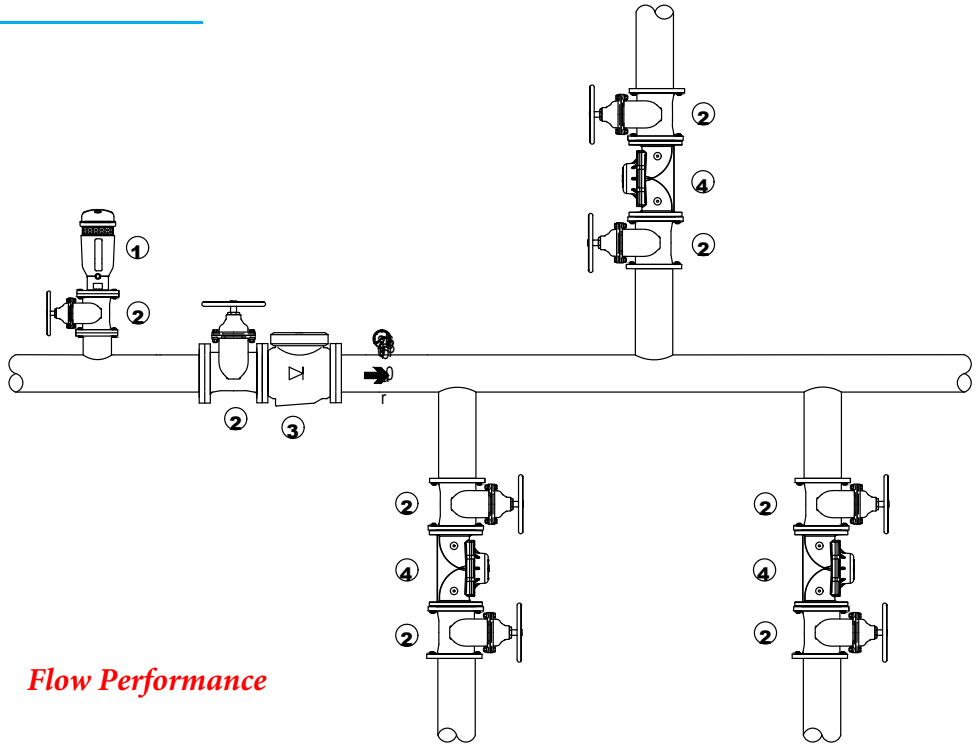
Main Parts



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
16	232	17,6	255	24	348
25	363	27,5	399	37,5	544

Example Application

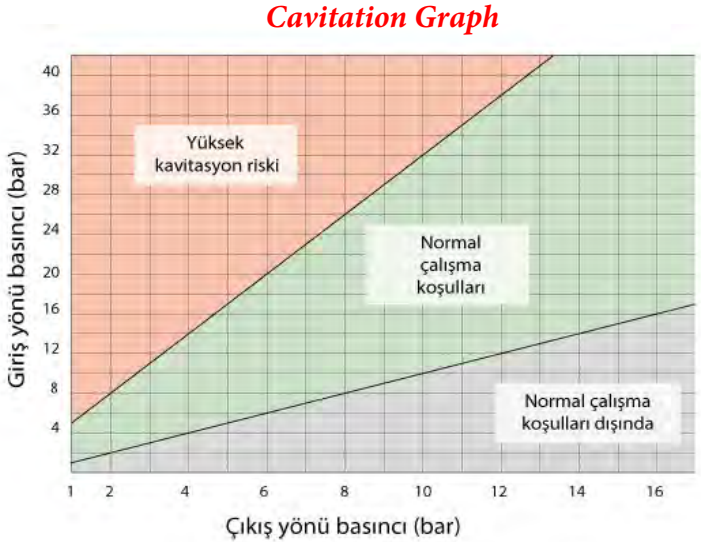


1. Air vent
2. Gate valve
3. Check valve
4. Flow control valve

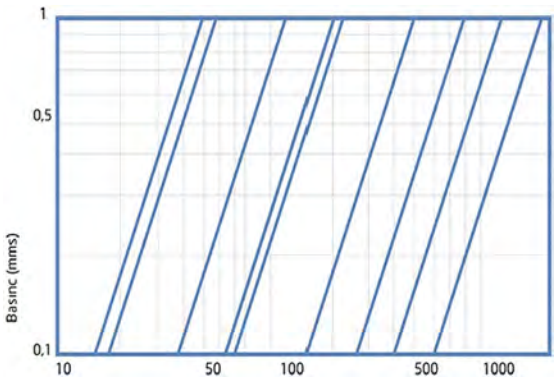
Flow Performance

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 m^3/ h