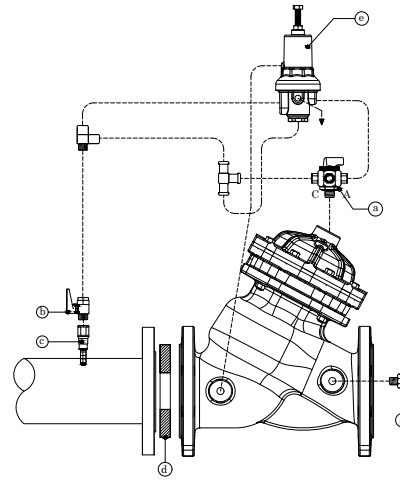




Technical Drawing



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

Product Description

BKV 116 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.

Features

- Precise Flow Rate Control: Precisely controls and maintains the liquid flow at the desired level, ensuring efficient system operation.
- Durable Material: Made of stainless steel and high-quality plastic materials, it is resistant to 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.
- Low cavitation risk.

Adjustment

- Start the pump or open the main valve in the network to supply water to the system.
- 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.

Production Standards

DN40 ⇒ DN500	
Pressure Range	1 bar ⇒ 16 bar
Connection	Flanged EN1092-2
Paint	Electrostatic Powder Coating
Temperature	-10 °C +80 °C

Application Areas

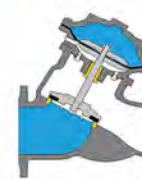
- Agricultural irrigation
- Fire extinguishing
- Industrial Applications
- Irrigation and drinking water distribution systems

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.



Açık Konum
Open Position

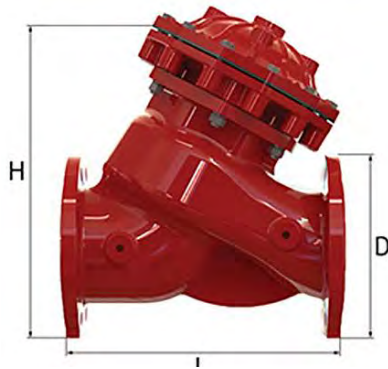


Kapalı Konum
Closed Position



Modülasyon Konum
Modulation Position

Nominal Diameter	1/2" DN40	2" DN50	2 1/2" DN65	3" DN80	4" DN100	5" DN125	6" DN150	8" DN200	10" DN250	12" DN300	14" DN350	16" DN400	18" DN450	20" DN500
Product Code	YF16DKV 40	YF16DKV 50	YF16DKV 65	YF16DKV 80	YF16DKV 100	YF16DKV 125	YF16DKV 150	YF16DKV 200	YF16DKV 250	YF16DKV 300	YF16DKV 350	YF16DKV 400	YF16DKV 450	YF16DKV 500



Recommended Work Values

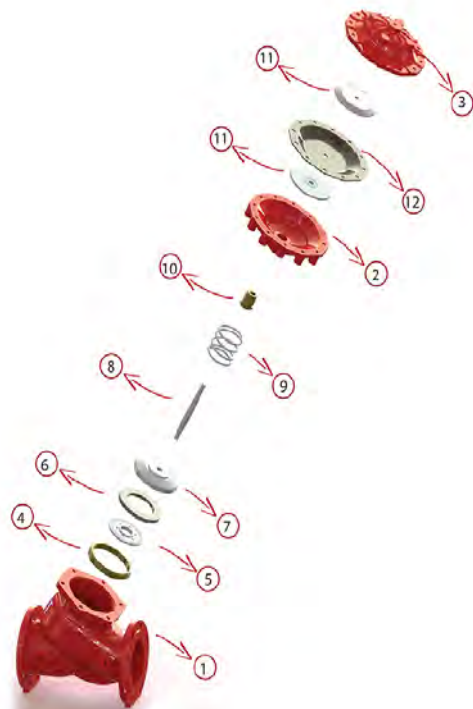
Working Pressure	Standart	1-16 bar (10-240 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Flanged	EN 1092-2 ISO 7005-2
	Threaded	ISO (BSP) - ANSI (NPT)
Paint Coating	Standard	Polyester
	Optional	Epoxy

Y-Type Control Valve Size and Weight Chart

DN		L		D		H		WEIGHT	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
1 ½"	40	8,5	215	5,9	150	10,6	270	33	15
2"	50	8,7	220	6,5	165	10,6	270	35	16
2 ½"	65	8,7	220	7,3	185	11,2	285	39	18
3"	80	10,60	270	7,9	200	13,4	340	59	27
4"	100	12,80	325	8,7	220	15,4	390	85	39
5"	125	13,20	335	9,8	250	16,5	420	97	44
6"	150	16,93	430	11,2	285	20,5	520	200	91
8"	200	21,26	540	13,4	340	26,0	660	399	181
10"	250	24,60	625	15,9	405	30,5	775	590	268
12"	300	26,97	685	18,3	465	31,9	810	661	300
14"	350	34,3	870	20,5	520	41,9	1065	1569	712
16"	400	34,3	870	23,0	585	43,1	1095	1598	725
18"	450	43,9	1115	56,3	1430	53,7	1365	3042	1380
20"	500	43,9	1115	56,3	1430	53,7	1365	3086	1400

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

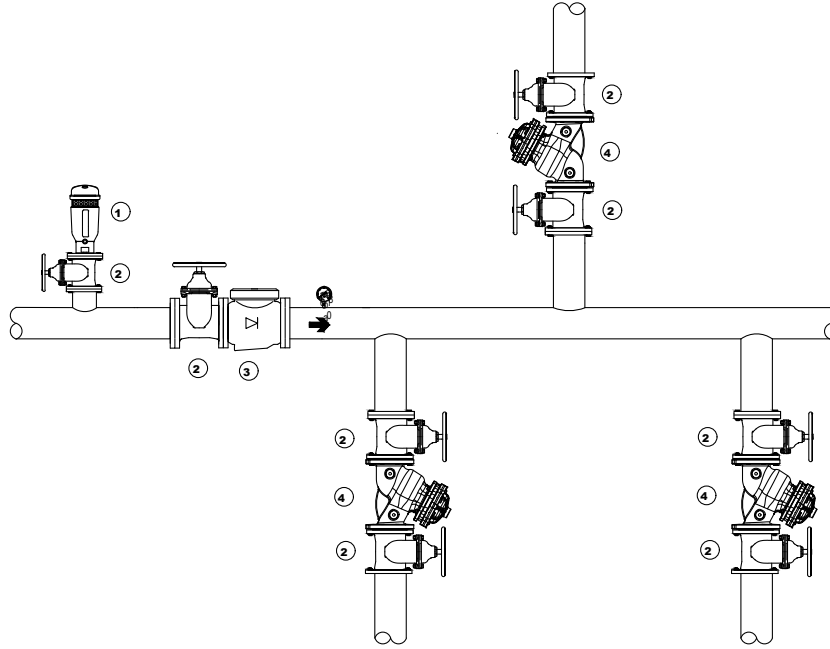
Main Parts



1	Body	GGG40 (EN-GJS 400-15) Cast iron
2	Intermediate Body	GGG40 (EN-GJS 400-15) Cast iron
3	Lid	GGG40 (EN-GJS 400-15) Cast iron
4	Sealing Bushing	Brass/Bronze
5	Flap Press Cover	Stainless
6	Flap Seal	Buna-N
7	Flap	Stainless
8	Shaft	Stainless
9	Spring	Stainless
10	Intermediate Body Shaft Bearing	Brass/Bronze
11	Diaphragm Press Disc	Stainless
12	Diaphragm	Nopren (Nylon based)

Maximum Working Pressure		Leakage Test Pressure		Body Test Pressure	
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

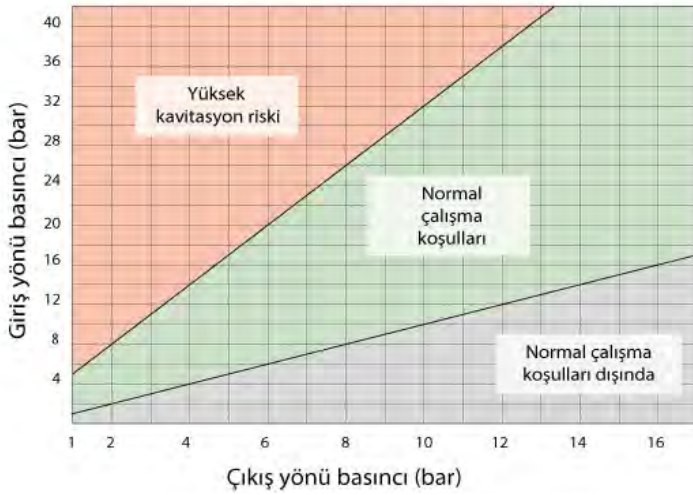


1. Air vent
2. Gate valve
3. Check valve
4. Flow control valve

Flow Analysis Table

Nominal Diameter	mm	50	65	80	100	125	150	200	250	300	350	400	450	500
	Inch	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
kv	m ³ /h- 1 ar	70	73	167	215	224	503	830	1300	1800				
		44	46	96	168	171	388	685	1054	1565				

Cavitation Graph



Pressure Loss Graph

