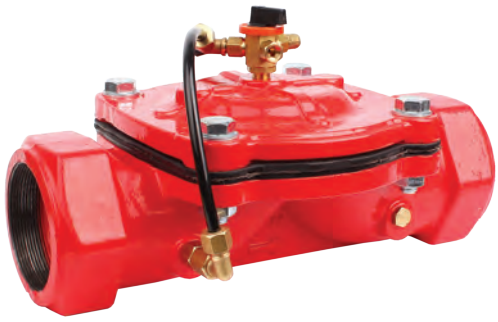
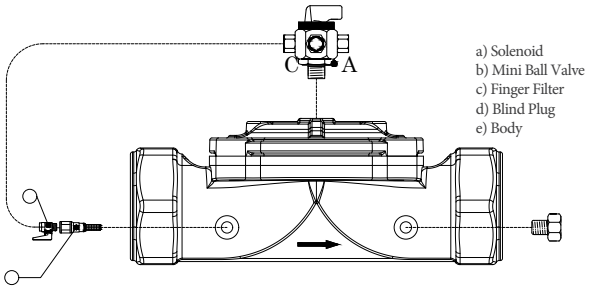


Technical Drawing



Product Description

Manual hydraulic control valves are hydraulic control valves that operate with line pressure and provide opening and closing via a 3-way selector valve. The minimum opening pressure of the valve is 0.5 bar. Thanks to its flexible diaphragm, rigidly mounted valve stem, and steel spring, it provides easy and fast control in high-pressure applications and closes completely leak-proof without creating shock. By adding various pilot valves to the main valve body, it can be used in many different applications.

Production Standards

DN50 ⟹ DN80	
Pressure Range	1 bar ⟹ 16 bar
Connection	ISO (BSP) - ANSI (NPT)
Paint	Electrostatic Powder Coating
Temperature	-10 °C +80 °C

Features

- Minimum pressure loss
- Adjustable opening/closing speed (optional)
- Easy maintenance
- Maintenance can be performed without removing it from the pipeline.

Application Areas

- Agricultural irrigation
- Fire extinguishing
- Industrial applications
- Irrigation and drinking water systems

Adjustment

- Connect the valve to the main line.
- The 3-way selector valve will open in the open position.
- It will close in the close position.

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.



Diameter	2" / DN50	2 1/2" / DN65	3" / DN80
Code	GD16MV 50	GD16MV 65	GD16MV 80



Recommended Work Values

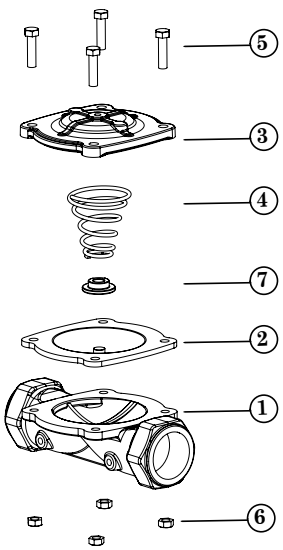
Working Pressure	Standard	1-16 bar (10-160 psi)
Temperature	Min.Operating Temperature	-10°C
	Max.Operating Temperature	+80°C
Connection	Flanged	EN 1092-2 ISO 7005-2
	Threaded	ISO (BSP) – ANSI (NPT)
Paint Coating	Standard	Polyester
	Optional	Epoksi

Globe Type Control Valves Size and Weight Table

DN		L		D		H		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
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

NOT: Ağırlık ve vana yüksekliğine (h) aksesuarlar dahil edilmemiştir.

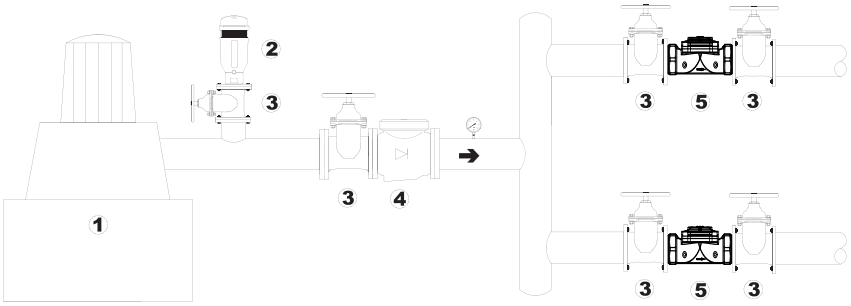
Main Parts



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	Spring	Stainless
5	Bolt	Coated Steel
6	Nut	Coated Steel
7	Diaphragm Pressure Ring	Polyamid / Polyester

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

Example Application

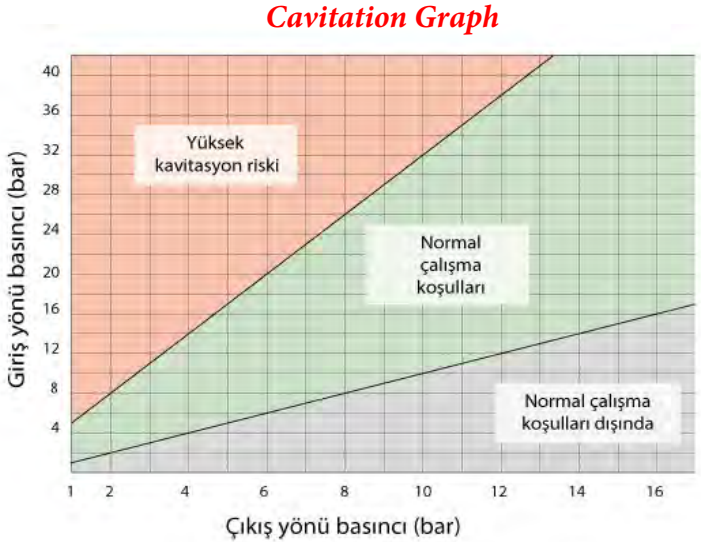


1) Pump
2) Air Suction Cup
3) Isolation Valve
4) Check Valve
5) Manual On/Off Valve

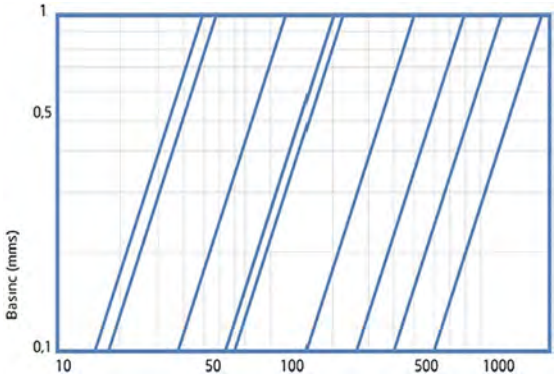
Flow Performance

Diameter	mm	50	65	80
	İnch	2"	2½"	3"
kv	m³/h- 1 Bar	70	73	167
		44	46	96

Cavitation Graph



Pressure Loss Graph



Flow m³/ h