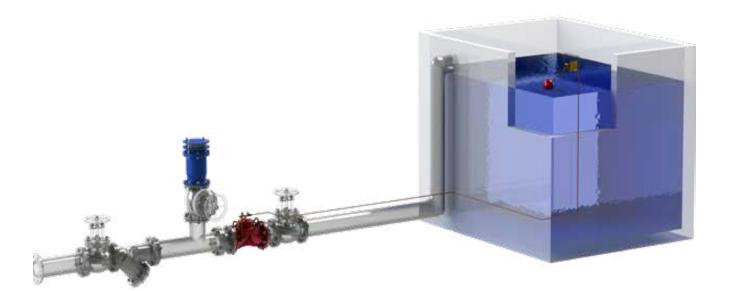


The Float Level Control Valve is the hydraulic control valve designed to control water level in reservoirs and tanks continuously. Main valve is controlled by 2-way modulating type float pilot valve manually. Main valve mounted on reservoir and tank upstream is closed as fully sealed without causing surge when water level reaches to maximum level. Valve opening/closing speed may be adjusted in set value. It may be used in the system by mounting horizontal or vertical positions.









Sample Application



Flanged • Threades • Angled • Victaulic



- Manually Controlled Valve
- PR Pressure Reducing Control Valve
- PRPS Pressure Reducing + Pressure Sustaining Control Valve
- PS Pressure Sustaining Control Valve
- PREL Pressure Reducing + Solenoid Controlled Valve
- EL Solenoid Controlled Valve
- QR Quick Relief Control Valve
- FL Float Level Control Valve
- FLEL Electric Float Level Control Valve
- DIFL Differential Float Level Control alve
- PC Pump (Booster) Control Valve
- DPC Deep Well (Submersible) Pump Control Valve
- SA Surge Anticipating Control Valve
- HD Hydraulic Check Valve

Valmatic hydraulic control valves are automatic valves with direct diaphragm shut-off working with line pressure. It is a comfortable, smooth flow in the minimum pressure loss of the body and diaphragm, which is kept in the foreground in its design.

In hydraulic control valves, worn parts such as shafts, bearings and bushings are longevity. The single moving part of valves is the diaphragm.

Valmatic hydraulic control valves, in-line water pump, agricultural irrigation, fire systems, filtration, industrial, etc. designed for use in areas.





They are automatic control valves which are used hydraulically to perform the desired operations with line pressure without the need of energy sources in the mains line.

Valve Closing Mode

When the pilot discharge position on the main control valve in the closed position is reached, the pressurized water on the diaphragm of the main control valve is drained. When the line pressure reaches the position of spring force, hydraulic force is applied to the diaphragm of the control valve under water, so that the valve is in full open position.

Valve Opening Mode

When the pilots on the main control valve reach the water pressure diaphragm, the water creates a hydraulic force. The resulting hydraulic force combines the diaphragm with the force applied by the spring to create a complete seal and close.

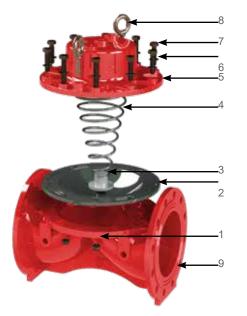
Modulation Mode

These are the pilot valves which are connected to the control valve which allows the main valve to operate in this position. According to the amount of flow and pressure to be adjusted, the water pressure on the diaphragm is controlled constantly, allowing it to operate in a modulated position.



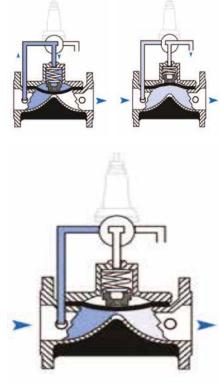
| | Con | nection | | Materi | al | Во | dy | Transmition Pressure | | | | | |
|-----|---------------------|---------|------------|--------|----|-----|-----|----------------------|-----|-----|--|--|--|
| ged | FI | anged | | GGG4 | 0 | Glo | be | PN10-PN16-PN25 | | | | | |
| Sur | AVAILABLE DIAMETERS | | | | | | | | | | | | |
| Ĕ | mm | 50 | 65 | 80 100 | | 125 | 150 | 200 | 250 | 300 | | | |
| | inch | 2 | 2 ½ | 3 | 4 | 5 | 6 | 8 | 10 | 12 | | | |

From 2" To 5"



| | # | Material Name | Type of Material | | | | | | | |
|---------|---|------------------|------------------|--|--|--|--|--|--|--|
| | 1 | Body | GGG40 | | | | | | | |
| | 2 | Diaphragm | Natural Rubber | | | | | | | |
| Ň | 3 | Spring Seat | Polyamide | | | | | | | |
| ğ | 4 | Spring | SST 302 | | | | | | | |
| Flanged | 5 | Cover | GGG40 | | | | | | | |
| F | 6 | Washer | 8.8 Coated Steel | | | | | | | |
| | 7 | Bolt | 8.8 Coated Steel | | | | | | | |
| | 8 | Lifting Eyebolts | 8.8 Coated Steel | | | | | | | |
| | 9 | Nut | 8.8 Coated Steel | | | | | | | |

From 6" To 12"



'MAT Flow rate

Technical Specifications

| | Standard | 0,7 - 16 bar (10 - 240 psi) | | | | | | |
|--------------------|-----------------------------|---|--|--|--|--|--|--|
| Operating Pressure | Low Pressure Range | 0,5 - 10 bar (7,5 - 160 psi) | | | | | | |
| | High Pressure Range | 0,7 - 25 bar (10 - 360 psi) | | | | | | |
| | Minimum Operating Temp. | - 10 °C (14 °F) DIN 2401/2 | | | | | | |
| Temperature | Maximum Operating Temp. | 80 °C (176 °F) DIN 2401/2 | | | | | | |
| Connection | Flanged | EN 1092-2, ISO 7005 - 2 | | | | | | |
| | Threaded | ISO (BSP) , ANSI (NPT) | | | | | | |
| Covering | Standard | Ероху | | | | | | |
| | Optional | Polyester | | | | | | |
| Hydraulic | standard | Reinforced Nylon (Air Brake) Hydraulic Tube SAE J 844 | | | | | | |
| Connections | Optional | Copper DIN1057 | | | | | | |
| Actuator Type | With Single Control Chamber | Aperture With Diaphragm | | | | | | |

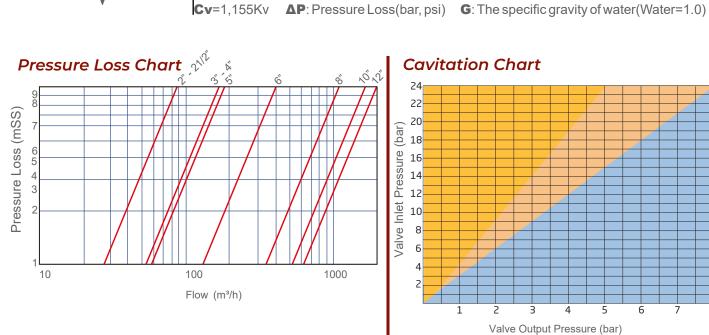
HYDRAULIC PERFORMANCE

| | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm |
|----------------|----------------------------|----|------------|-----|------|-----|------|-----|------|-----|------|------|------|------|------|------|------|-----|
| Valve Diameter | 2 | 50 | 2 ½ | 65 | 3 | 80 | 4 | 100 | 5 | 125 | 6 | 150 | 8 | 200 | 10 | 250 | 12 | 300 |
| Kv m³/h@1bar | <pre>Kv m³/h@1bar 88</pre> | | 88 | | 174 | | 187 | | 187 | | 419 | | 1139 | | 1698 | | 2276 | |
| Cv gmp@1psi | 102 102 | | 2 | 201 | | 216 | | 216 | | 484 | | 1316 | | 1961 | | 2629 | | |

$$Kv(Cv)=Q.$$

Kv : Valve flow coefficient (flow rate at 1 bar pressure loss m³/h @ 1 Cv : Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1

Q : Flow (m³/h, gpm)



Cavitation Chart

