



ELECTRIC FLOAT LEVEL CONTROL VALVE

TAYFUR WATER SYSTEMS

TYPHOON®



We **Care** About
Every Drop of
Water

Tayfur Water Systems, which was established by Tayfun Yazaroğlu in 2004 in Izmir. We continue our activities as "Tayfur Water Systems Machinery Engineering Industry and Trade Inc." since 2017.

Our company offers its products and experiences to the local market and international market. Tayfur Water Systems, while strengthening its recognition abroad, continues to expand its production, sales and marketing activities every day.

Our engineers and technical staff, technological infrastructure, manufacturing, sales, project-consulting, contracting and service planning meets the requirements of the sector.

Our company manufactures "TYPHOON" brand, hydraulic control valves, plastic hydraulic control valves, backwash valves, plastic backwash valves, impact-free dynamic suction cups, plastic suction cups, bottom clamps, filter reverse flushing control devices. It is progressing towards becoming a strong brand in both domestic and foreign markets by meeting the special demands of its domestic and foreign customers.

STORY OF US

Our Quality Policy

In order to be a leader in quality in the sales, marketing and service sector by complying with legal conditions and to comply with the requirements of Quality Management System in order to meet the needs and expectations of our customers, to continuously improve the efficiency and to not compromise the quality under any circumstances.

Our Mission

To be a company aiming to present its synergy in the national and international market which has always taken its responsibilities, desires and expectations of our customers in a correct, reliable and timely manner, within the framework of high quality standards, transforming efficiency and competition into an advantage...

Our Vision

To be a leading, innovative, powerful and reputable enterprise in its sector.



ELECTRIC FLOAT LEVEL CONTROL VALVE

Agricultural



Electric Float Level Control Valve is a valve that constantly controls water level by electric float placed in the tank. When the water level at the bottom falls below the desired value, the electric floater sends a signal to the solenoid coil on the main valve.

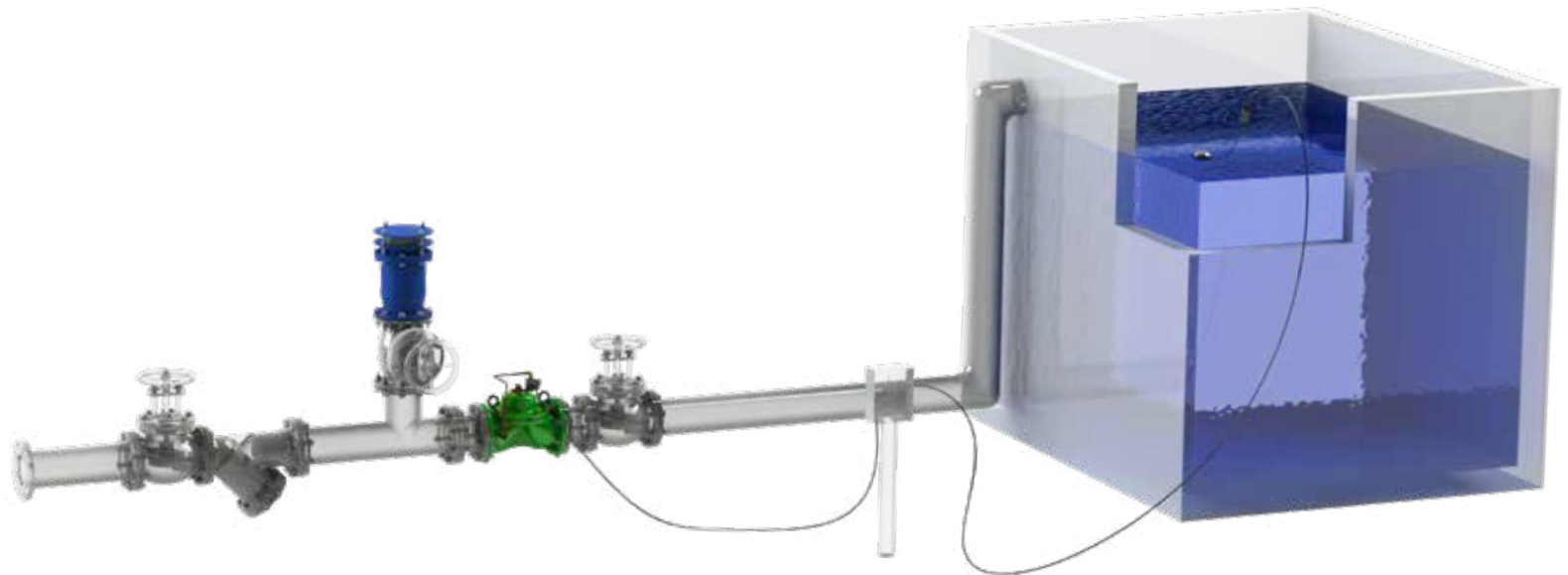
This allows the valve to open itself fully and keep the reservoir constantly full. When the water level reaches the maximum level, the electric switch sends a signal again to the solenoid coil and the valve closes itself. The valve can be operated on the system horizontally or vertically.

Order Information

Please provide the following information in order

- Maximum flow rate m³/h
- Maximum mains / operating pressure bar
- Main pipeline diameter mm
- Valve connection type
- Electric voltage value to be used volt

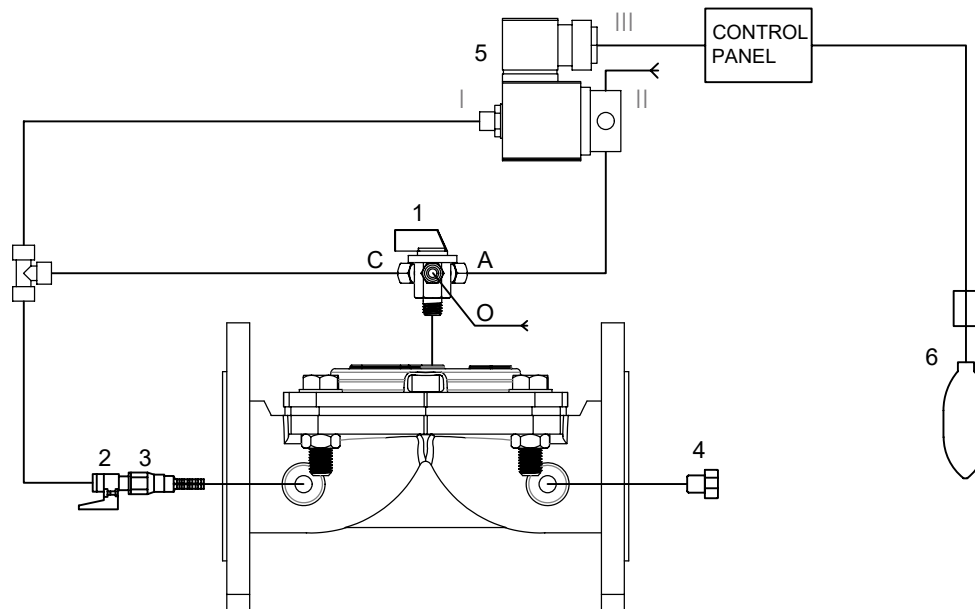
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Assemble

- After connect the in-line finger filter that is numbered "3" and the mini ball valve that is numbered "2" to the inlet of the valve , which the connection is provided to the outlet "C" closed position of the mini ball valve numbered "II" and the outlet "I" of the solenoid valve with copper and plastic pipe.
- The outlet "II" of solenoid as shown as "5" is connected to the outlet "A" as "auto" positioned of the 3way mini ball valve and the outlet of solenoid as "III" is connected to the control switch.
- The end-cap "4" is connected to the output of valve
- Assemble the valve in accordance with the direction of arrow which is shown onto the valve.
- While mounting the valve , put the gasket for sealness between the flanges of valves and pipe flanges and tighten the bolts as cross shape "X"
- Usage of the isolation valves (butterfly valves , gate valves etc) , air release valves , Quick pressure relief valve (QR) and strainers is recommended at the assemble in the pipe line.

1. Three Way Valve
2. Mini Ball Valves
3. Finger Filter
4. End Caps
5. Solenoid Valve
6. Electric Float Switch



Adjust

- Assemble the electrical float switch as shown "6" as fixed in according to the Water level into the tank or reservoir and connect the wires of electrical float switch to the control panel.
- Connect the wires of solenoid valve as shown "5" to the control panel as properly.
- Turn the position of 3way selector valve "1"

HYDRAULIC CONTROL VALVES

Agricultural

Typhoon 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.

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

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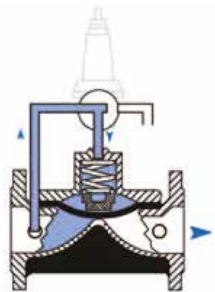


- M** Manually Controlled Valve
- PR** Pressure Reducing Control Valve
- PRPS** Pressure Reducing + Pressure Sustaining Control Valve
- PS** Pressure Sustaining Control Valve
- PREL** Pressure Reducing + Solenoid Controlled Valve
- EL** Solenoid Controlled Valve
- QR** Quick Relief Control Valve
- FL**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



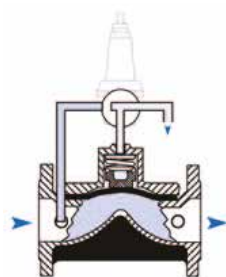
Working Principles

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.



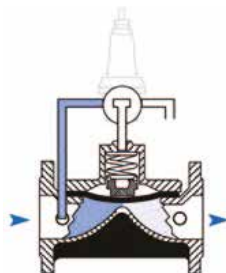
Valve Closing Mode

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.

Models

Flanged		Connection		Material			Body		Transmission Pressure		
		Flanged		GGG40			Globe		PN10 - PN16 - PN25		
		Available Diameters									
		mm	50	65	80	100	125	150	200	250	300
inch	2	2 ^{1/2}	3	4	5	6	8	10	12		

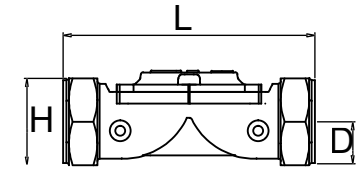
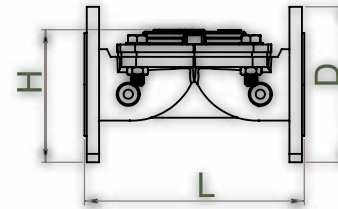
Threaded		Connection		Material			Body		Transmission Pressure		
		Threaded		GGG40			Globe		PN10 - PN16 - PN25		
		Available Diameters									
		mm	20	25	32	40	50	65	80		
inch	3/4	1	1 ^{1/4}	1 ^{1/2}	2	2 ^{1/2}	3				

Victaulic		Connection		Material			Body		Transmission Pressure		
		Victaulic		GGG40			Globe		PN10 - PN16 - PN25		
		Available Diameters									
		mm	50	65	80	100	150	200			
inch	2	2 ^{1/2}	3	4	6	8					

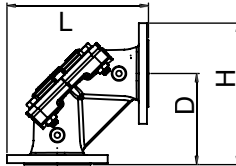
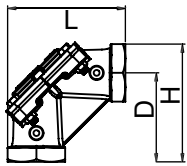
Angled		Connection		Material			Body		Transmission Pressure		
		Flanged / Threaded		GGG40			Globe		PN10 - PN16 - PN25		
		Available Diameters									
		mm	50	80	100	150					
inch	2	3	4	6							

Sizes and Weights

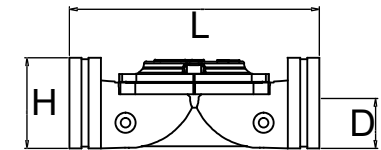
Flanged	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	2	50	6,50	165	8,66	220	5,87	149	17,60	8,00
2 ^{1/2}	65	7,28	185	8,66	220	6,06	154	21,60	9,80	
3	80	7,87	200	11,26	286	6,81	173	38,80	17,46	
4	100	8,66	220	12,99	330	6,81	173	46,47	29,08	
5	125	9,84	250	14,49	368	8,35	212	62,30	28,25	
6	150	11,22	285	15,51	394	12,80	325	114,40	51,90	
8	200	13,38	340	18,19	462	14,96	380	200,80	91,10	
10	250	15,94	405	21,46	545	19,09	458	332,90	151,00	
12	300	18,11	460	22,19	582	19,69	500	392,90	178,20	



Threaded	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	3/4	20	0,90	23,0	5,2	132	2,0	50,0	2,2	1,00
1	25	0,90	23,0	5,2	132	2,0	50,0	2,2	1,00	
1 ^{1/4}	32	1,35	34,0	6,8	173	3,6	92,3	6,3	2,85	
1 ^{1/2}	40	1,35	34,0	6,8	173	3,6	92,3	5,8	2,65	
2	50	1,65	41,5	7,3	186	4,4	112,0	9,0	4,10	
2 ^{1/2}	65	1,80	46,0	8,9	226	4,6	118,0	11,7	5,30	
3	80	2,05	52,5	12,5	318	5,0	127,0	26,4	12,00	



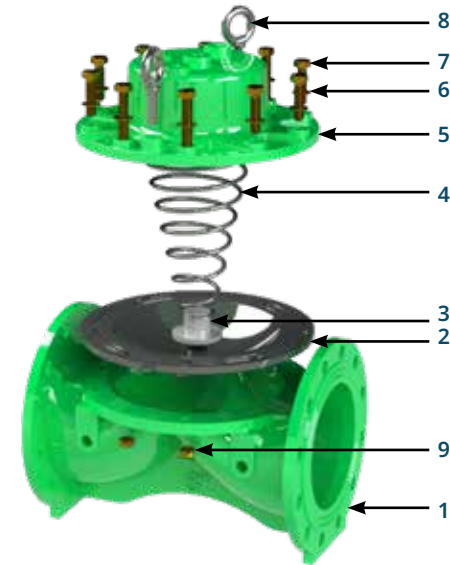
Angled	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
Threaded	2	50	4,4	112	6,05	154	6,05	154	9,47	4,3
	3	80	7,1	180	9,45	240	9,45	240	29,30	13,3
Flanged	2	50	4,40	112	7,44	189	7,44	189	19,07	8,65
	3	80	7,10	180	10,95	278	10,95	278	39,02	17,7
	4	100	7,48	190	12,00	305	12	305	60,19	27,3
	6	150	9,05	230	14,92	379	14,92	379	106,26	48,2



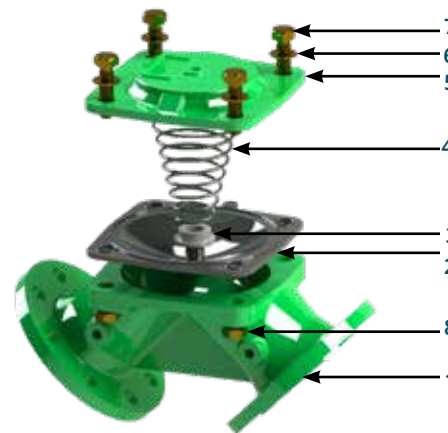
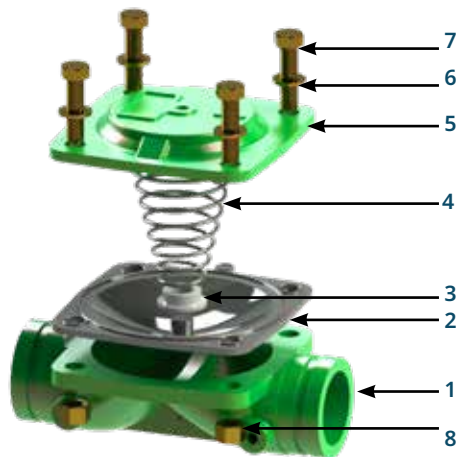
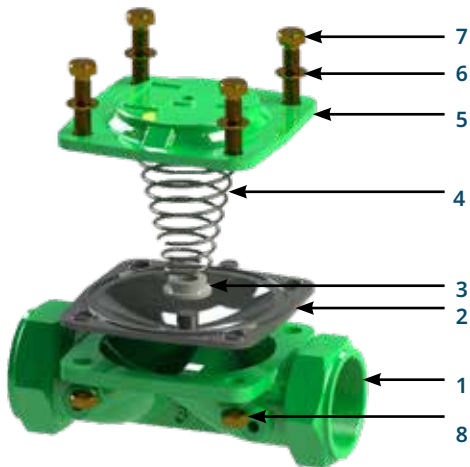
Victaulic	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	2	50	1,18	30	7,24	190	3,11	79,0	8,60	3,9
2 ^{1/2}	65	1,46	37	8,90	218	3,74	95,0	9,92	4,5	
3	80	1,77	45	11,42	290	3,70	94,0	13,00	5,9	
4	100	2,26	57,5	12,48	317	4,19	106,5	13,6	6,2	
6	150	3,30	84	17,87	392	5,24	133,0	66,00	30	
8	200	4,53	115	21,40	544	13,10	332,0	143,30	65	

Flanged

Nr.	Material Name	Type Of Material
1	Body	GGG40
2	Diaphragm	Natural Rubber
3	Spring Seat	Polyamide
4	Spring	SST 302
5	Cover	GGG40
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



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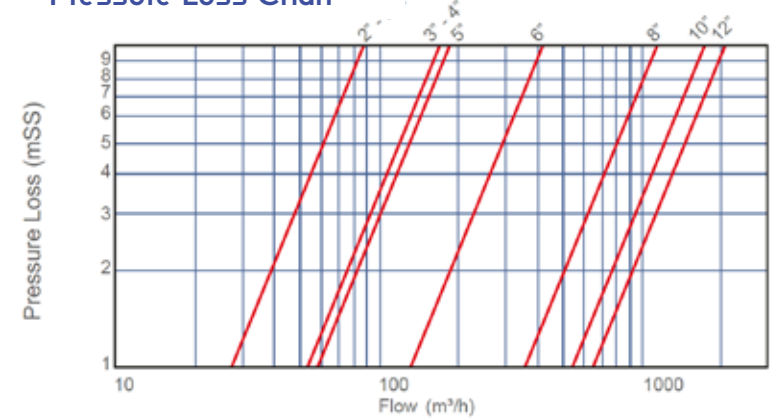
Threaded - Victaulic - Angled

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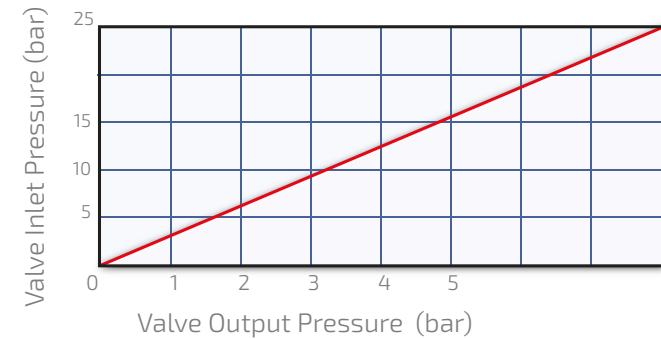
Technical Specifications

Operating Pressure	Standard	0,7 - 16 bar (10 - 240 psi)
	Low Pressure Range	0,5 - 10 bar (7,5 - 160 psi)
	High Pressure Range	0,7 - 25 bar (10 - 360 psi)
Temperature	Minimum Operating Temp.	- 10 °C (14 °F) DIN 2401/2
	Maximum Operating Temp.	80 °C (176 °F) DIN 2401/2
Connection	Flanged	DIN 2501, ISO 7005 - 2
	Threaded	ISO (BSP) , ANSI (NPT)
Covering	Standard	Epoxy
	Optional	Polyester
Hydraulic Connections	Standard	Reinforced Nylon (Air Brake) Hydraulic Tube SAE J 844
	Optional	Copper DIN1057
Actuator Type	With Single Control Chamber	Aperture With Diaphragm

Pressure Loss Chart



Cavitation Chart



Hydraulic Performance

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

$$Kv(Cv) = Q \cdot \sqrt{G/\Delta P}$$

Kv : Valve flow coefficient (flow rate at 1 bar pressure loss m³/h @ 1 bar)

Cv : Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1 psi)

Q : Flow (m³/h, gpm)

Cv = 1,155Kv

ΔP : Pressure Loss (bar, psi)

G : The specific gravity of water(Water=1.0)



EXHIBITIONS





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TYPHOON

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