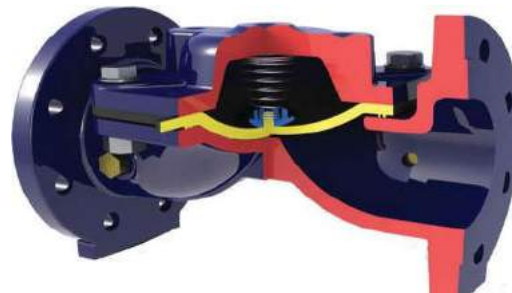




PRODUCT DESCRIPTION

Having been designed to control pressure, flow rate and level in closed loop pipe networks, hydraulic control valves with diaphragm actuator are automatic hydraulic control valves operating with the network pressure. Hydraulic valve body consists of 3 main components: Valve Cover, Valve Body and Diaphragm materials. Since the components such as shaft, flap, seal bushing, shaft sleeve etc do not exist in hydraulic control valves with diaphragm actuator, their maintenance and usage are quite easy

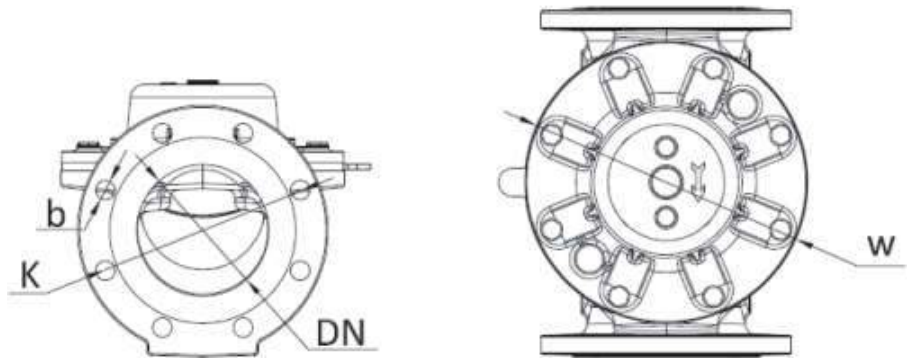
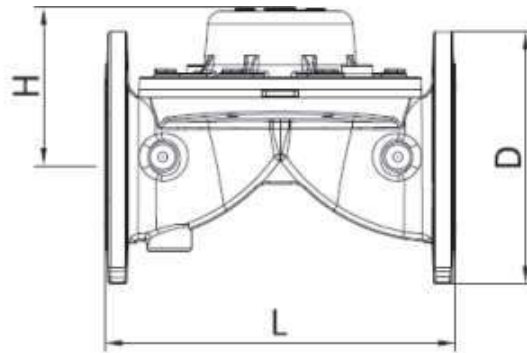
MATERIAL LIST



Name	Material
1 Valve Body	GGG 40 Ductile iron
2 Valve Cover	GGG 40 Ductile iron
3 Spring	Standard : SS304 Optional : SS316
4 Spring seal	Nylon 6
5 Bolt	Standard : 8.8 Galvanized Steel
6 Rondela	8.8 Galvanized steel
7 Diaphragm	Standard: EPDM rubber
8 Nut	Standart: 8.8 Galvanized Steel Optional: Inox stainless
9 Control Fittings	Ms 58 forged brass



DI-FLV FLOAT CONTROL VALVE



DIMENSION AND WEIGHT TABLE

	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
DN	50	2"	65	2½"	80	3"	100	4"	125	5"	150	6"	200	8"
D	165	6 1/2	185	7 9/32	200	7 7/8	220	8 21/32	250	9 27/32	285	11 7/32	340	13 25/64
H	125	4 59/64	135	5 5/16	190	7 31/64	200	7 7/8	227	8 15/16	244	9 39/64	272	10 45/64
L	195	7 43/64	215	8 15/32	300	11 13/16	300	11 13/16	380	14 61/64	400	15 3/4	450	17 23/32
K	125	4 59/64	145	5 45/64	160	6 19/64	180	7 3/32	210	8 17/64	240	9 29/64	295	11 39/64
W	115	4 17/32	115	4 17/32	200	7 7/8	200	7 7/8	320	12 19/32	320	12 19/32	320	12 19/32
b	19	3/4	19	3/4	19	3/4	19	3/4	19	3/4	23	29/32	23	29/32
Weight	7 kg	15lbs	9 kg	21lbs	18kg	45lbs	23kg	50lbs	45kg	103lbs	48kg	105lbs	76kg	165lbs



DI-FLV FLOAT CONTROL VALVE

TECHNICAL SPECIFICATIONS

Nominal Diameter DN 50 - DN 65 - DN 80 - DN 100 - DN 125 - DN 150 - DN 200

Nominal Pressure ISO PN 10 - Medium Pressure Range
ISO PN 16 - High Pressure Range

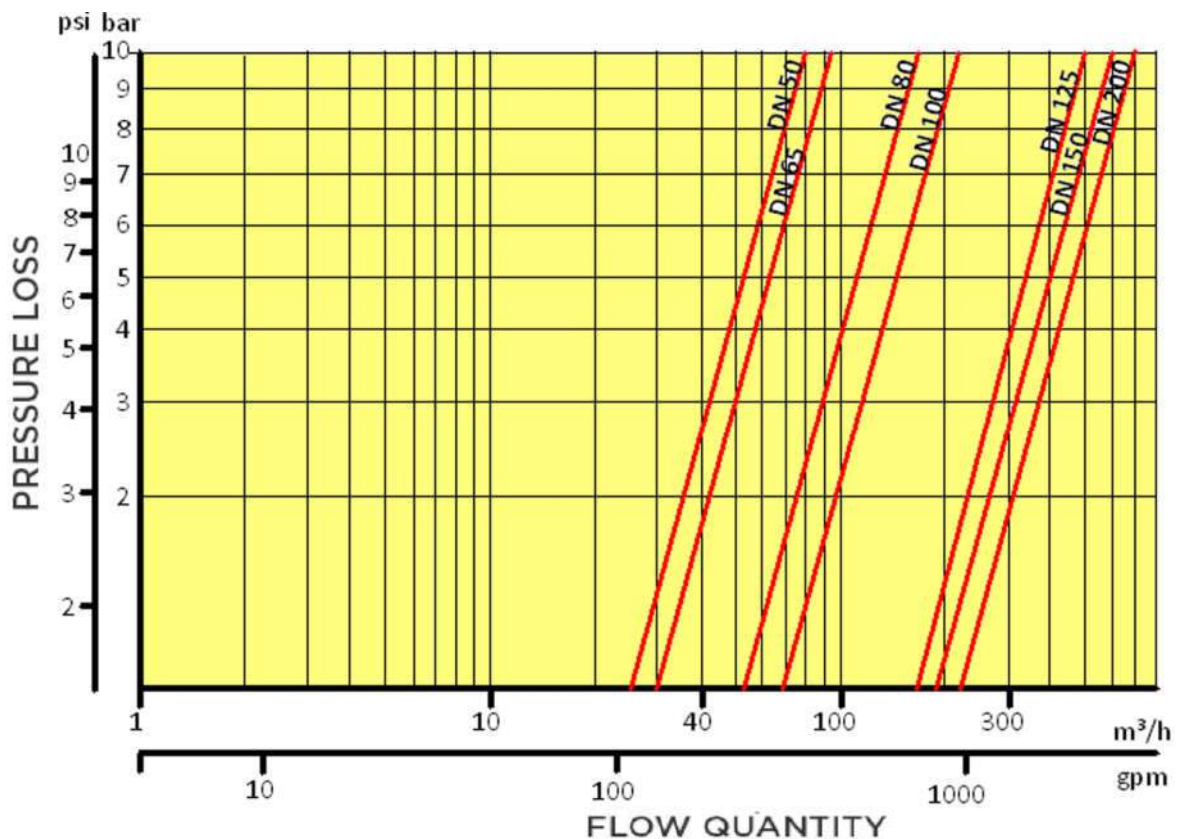
Operating pressure Medium Pressure Range : 0,7 - 10 bar
High Pressure Range : 0,7 - 16 bar

Flange Connection Dimensions TS ISO 7005/2 - EN 1092 - 2

Operating temperature -10 °C - 80 °C

Test Body Sealing Test: 1,5 X PN (TS EN 12266-1)
Diaphragm Sealing Test: 1,2 X PN (TS EN 12266-1)

PRESSURE LOSS GRAPH





DI-FLV FLOAT CONTROL VALVE



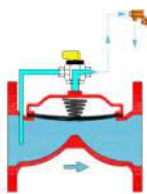
PRODUCT DESCRIPTION

Level control valves with floaters are hydraulic control valves which are used for controlling water level in water storing tanks such as water storages, reservoirs, pressure reducers etc. In order the main valve to perform opening & closing, a minimum 7 meters of pressure head should exist in the line.

PROPERTIES

- 1- Due to its simple structure, level control valve with floaters offers a big advantage in terms of its operation.
- 2- Floater assembly of the valve is modular which provides easy installation in the constructions where the level control is to be performed.
- 3- Hydraulic hose between the main valve and floater assembly could easily be connected to the valve and floater assembly.
- 4- Could also be used as opening & closing valve owing to the ball valve on the level control valve with floaters.
- 5- Operates hydraulically only with the line pressure without requiring any extra power supply.

WORKING PRINCIPLE



VALVE OPEN

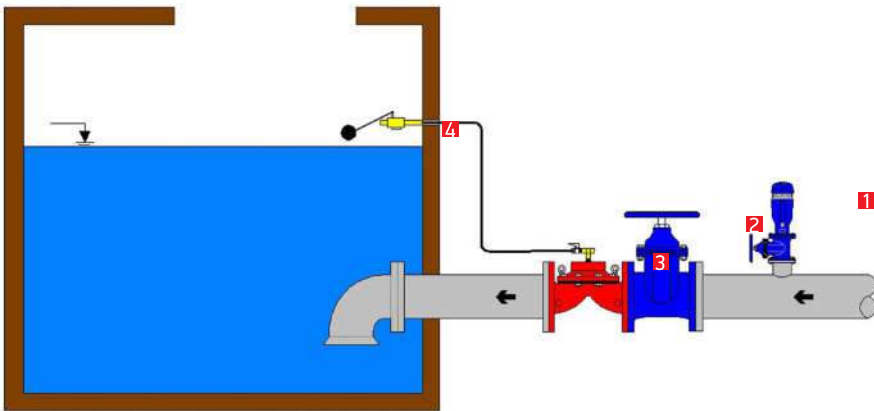
Floater assembly connected to the level control valve with floaters in a modular way functions like a 3/2 way valve. Having been mounted steadily on the reservoir, floater goes down position as the water reservoir empties and opens the discharge port of the 3/2 way valve on the floater assembly. Pressurized water in the actuator of the main valve is discharged through this port to atmosphere and the reservoir starts filling with water through opening of the diaphragm of the main valve via the line pressure in the system.



VALVE CLOSED

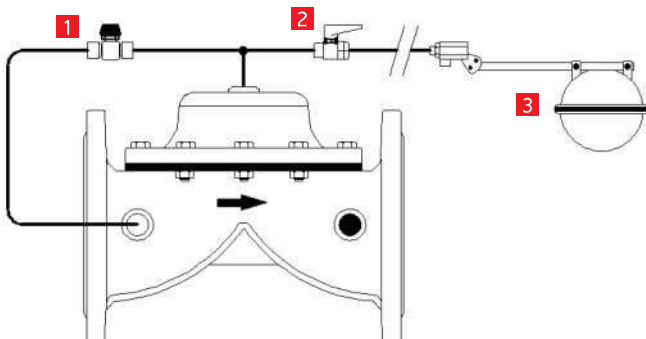
As the water level increases in the reservoir once the main valve starts filling it with water, the floater which moves upward, closes the discharge port of the 3/2 way valve slowly. After the discharge port of the pilot valve is closed, line pressure in the system is transmitted to the actuator of the main valve. With the help of the spring force, pressurized water arriving at the actuator switches the diaphragm to closed position and main valve is closed with a full-sealing without having any impact.

SAMPLE MOUNTING AND APPLICATION SCHEME



1. Air Discharge Valve
2. Isolation Valve
(Gate Valve Butterfly Valve, etc)
3. Level Control Valve With Floater
4. Floater Assembly

APPLICATION SCHEME



1. Speed Adjustments Valve
2. Mini Ball Valve
3. Floater

Install the valve according to the flow direction arrow on it.

For the sake of simplicity in case of service maintenance, it is recommended to mount isolation valves (gate, butterfly or ball etc. valves) to close the water in the inlet direction of the line.

For enabling the valve to operate efficiently, it is recommended a vacuum lifter to be placed before the valve.

Floater assembly of the level control valve with floaters should be mounted steadily on the reservoir. If it is not fixed, then main valve will not work.

After the floater assembly is mounted, switch the mini ball valve (shown as 2) on the main valve to open position. In case the mini ball valve is in closed position, main valve will close itself.

Hydraulic control valves are the control valves which operate with the system pressure. In practice in the systems where the reservoir inlet pressure is almost zero, floater in the level control valve with floaters should be mechanical instead of hydraulic. For detailed information, please contact us.

To avoid frosting in the winter, discharge the water in the valve actuator into atmosphere.