LEHRY VALVES
Where flow and pressure meets quality
SINCE-1950

STATIC ON/OFF FLOAT CONTROL VALVE

LEHRY Static On/Off Float Control Valve is composed of the main valve of the hydraulic control valve and the adjustable float ball valve, and the liquid level can be adjusted in an appropriate amount. Once the adjustment is completed, the height of the liquid surface is always maintained.

It is controlled by a remote mounted Modulating Float Pilot designed to: 1) Modulate Open (allowing fluid out of the main valve cover chamber) when reservoir level decreases, and, 2) Modulate Closed (allowing fluid out of the main valve cover chamber) when reservoir level increases. A Decrease in reservoir level causes the valve to modulate towards and open position, allowing reservoir level to increase. An increase in reservoir level causes the valve to modulate towards a closed position, allowing reservoir level to decrease.

Materials of Valves:

P No	Name	Material
A	Body	Ductile Iron
B	Ball	Brass
C	Exhaust Valve	Brass
D	Ball	Brass
E1	Ball Valve	Brass
G	Filter	Brass
H	Reducing Orifice	Stainless Steel
I	Throttle Valve	Brass, Stainless Steel
S	Ball Valve Device	Brass
	Vertical Installation Spring Assembly (Optional)	Stainless Steel
	Working Pressure	PN16, PN25

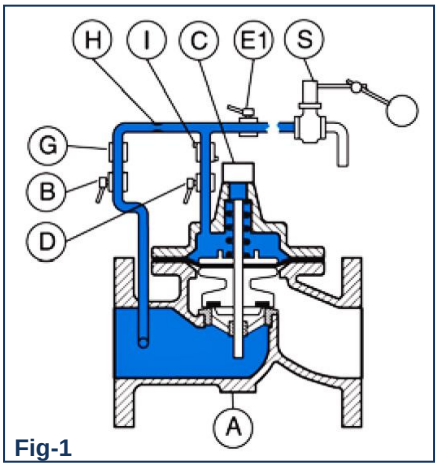


Fig-1

Description & Materials

Technical Specification	Part Name	Material	Part Name	Material
Design Standard : BS EN 1567 Face to Face : EN558-1	Body	DI	Diaphragm	Nylon + EPDM
	Spring	SS	O-Ring	EPDM
Flange Drilling : EN1092-2 / ANSI	Seat	NBR	Guide Bush	Brass
	Stem	Bronze	Coating	Epoxy resin

Basic Information of Main Valve

Medium	Standards	Connection
Medium : Water Temp: - 90°C	Design Standards BSEN 1567	Face to Face EN 558-1
Pressure Range: PN16, PN25 ANSI CL150/300	Test Standard EN 1226-1	Flange Drilling EN 1092-2 ANSI / 150 & 300#

Working Principle : -

When the float is halfway, the pilot valve is half closed; the pressure above the membrane pushed the valve to the close position. The valve will be completely closed when the float pilot valve will be in the upper position. **(Fig-1)**

When the water level is low in the tank the float pilot valve is completely open, the valve is open to fill the tank. **(Fig-2)**

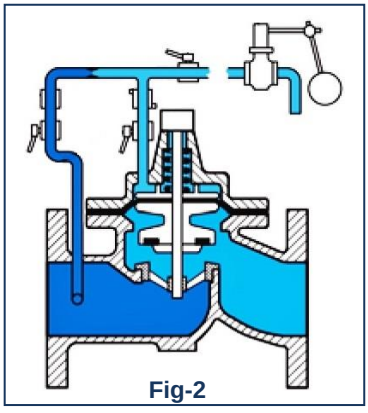


Fig-2

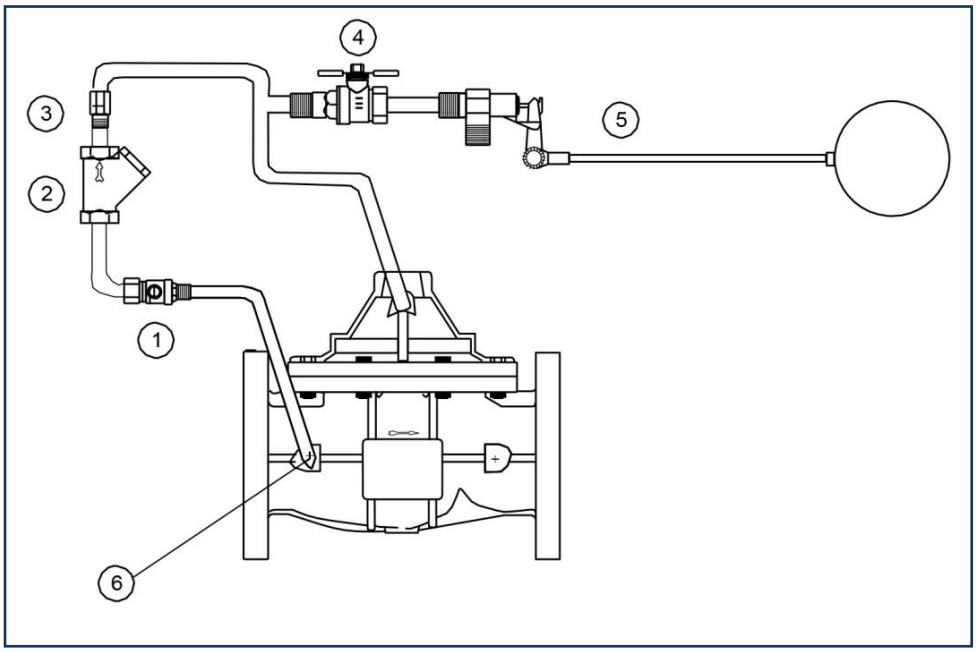
Features:

- Compact Structure, reliable sealing,
- Simple Structure, Convenient Maintenance
- Control the main valve opening and closing through floating ball valve, making sure that water level inside the water tank keeps given height
- The main valve opening or closing speed can be adjusted by the needle valve.

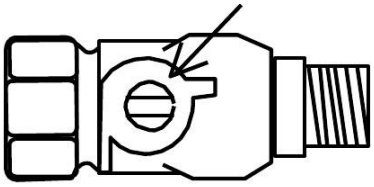
On/Off Float Control Valve

Part List

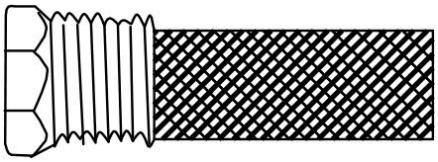
- Shut – Off Valve
- Y Strainer (Optional)
- Orifice Pilot (Closing Spread Control)
- Ball Valve
- Pilot Valve
- Finger Strainer (Optional)



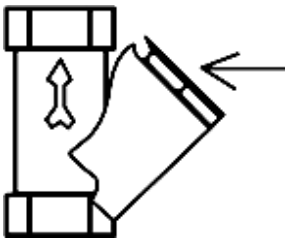
Open Position



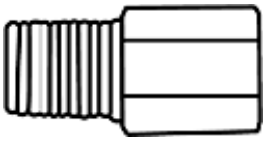
1) Shut off Valve



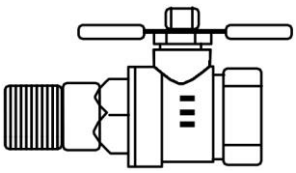
6) Finger Strainer



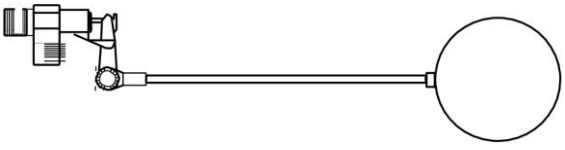
2) Optional Y-Strainer Removable Screen



3) Orifice Pilot

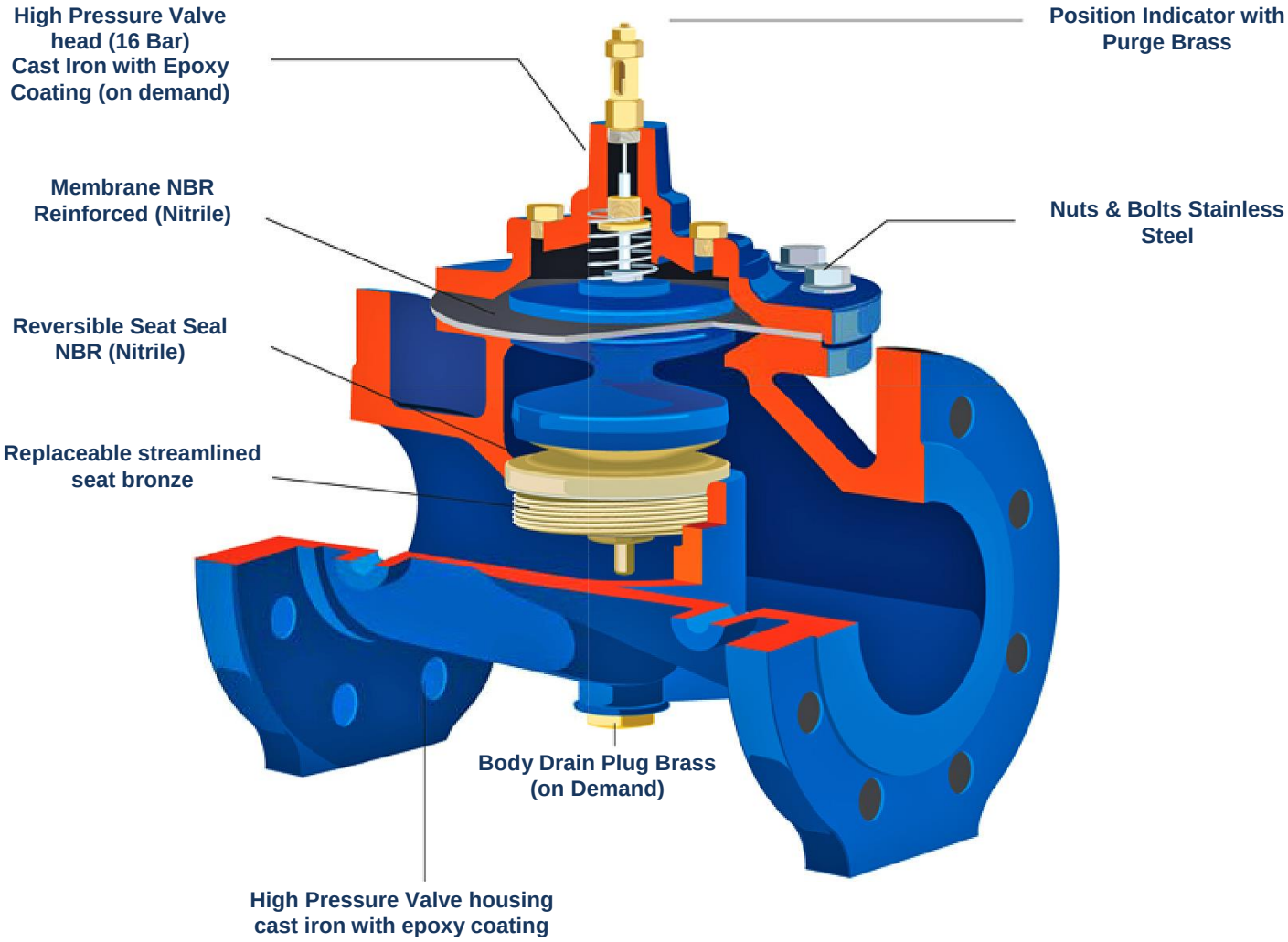


4) Ball Valve



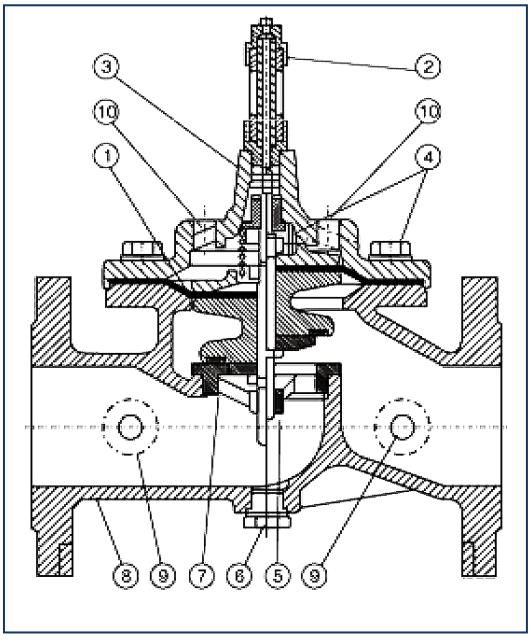
5) Float Valve

MAIN VALVE

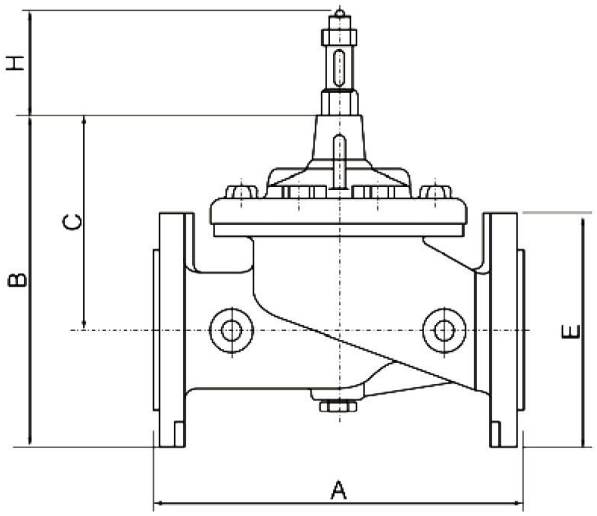


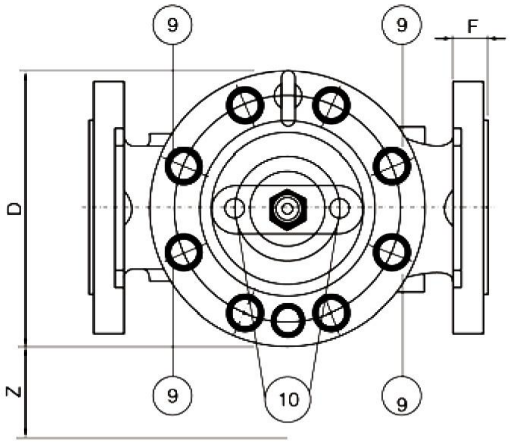
Material of Main Parts : -

Part No	Name	Material
1	Membrane	Reinforced NBR
2	Drain Cock on top cap	Brass
3	(PN 16) High Pressure to cap	Cast iron
4	Nuts, Bolts Screws	Stainless Steel
5	Replaceable streamlined seat	Bronze
6	Body drain plug	Brass
7	Reversible seat seal	NBR
8	High Pressure Body	Cast iron
9 & 10	Holes for Pressure Gauges	



Main Valve





9 & 10) Holes for Pressure Gauge

Dimensions

(All Dimensions are in mm)

Size		A	B	C	D	E	F	H	Z	NT WT (Kg) (Pn16 & 25)
DN	Inch									
40	1 ½"	237	240	160	169.9	167	16	42	254	10.8
50	2"	243	240	160	169.9	167	16	42	254	14.6
65	2 ½"	276	255	160	169.9	192	18	42	254	18.2
80	3"	276	255	160	169.9	200	18	42	254	18.2
100	4"	306	315	205	205	233	24	42	254	33
125	5"	416	370	240	279.5	250	25	42	254	58.5
150	6"	416	380	240	279.5	283	26	42	254	61.7
200	8"	520	490	330	363	345	28	42	254	97.4
250	10"	755	690	490	479.5	410	33	42	254	302.5
300	12"	764	720	490	693	480	34	42	254	322.5

Note: -

- The Static On/Off Float Control Valve is remote mounted. A Stilling well around the float should be installed if the liquid surface is subject to turbulence, ripples or wind.

Installations:-

1) Flush the pipeline before inserting the valve
2) Install the valve with the "arrow" on body pointing towards the reduced pressure area (or with the flange tagged "INLET) toward the high pressure are.)
3) Attached subassemblies to main valve if necessary.
4) Allow enough clearance above valve for removal of piston assembly.

Start - Up:-

1) Open both shut – off valves on the control assembly.
2) Open air bleeder at the top of the valve. (Reclose after step 4 or step 5)
3) Open Main line shut-off valve (usually a gate or butterfly valve) on the outlet side (tank or basing) of the main valve.
4) Open main line shut-off valve on the inlet side very slowly to permit flow through the valve to tank or basin.
5) Observe water level in basin or tank when valves shuts off. If the level at shut off is incorrect, reposition the float to obtain the desired shut off level.

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