



Z-Tide Valves Industrial CO., LTD.

No. 208, Jhongshan rd., Sanchong City, Taipei County 241, Taiwan R.O.C..

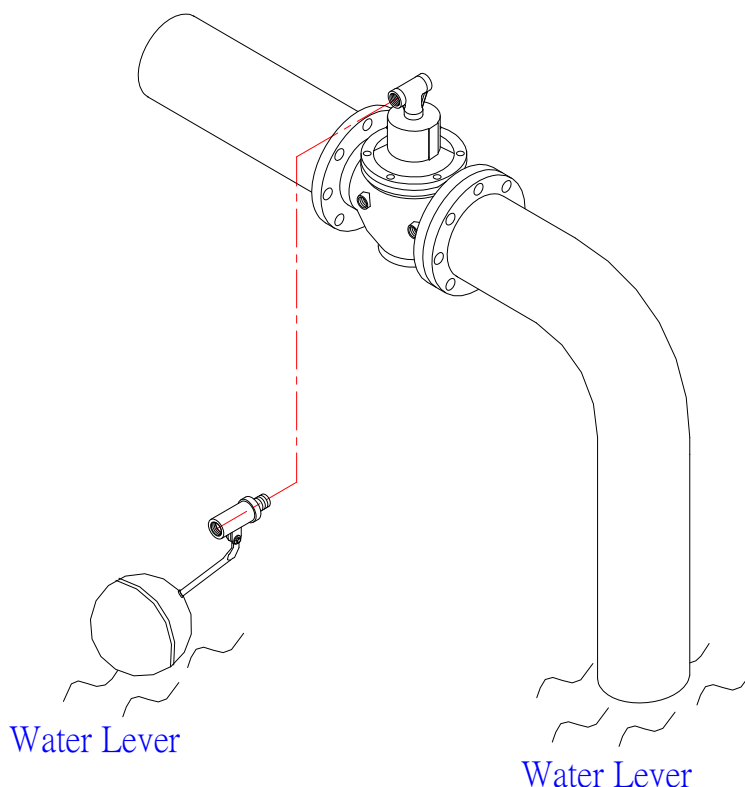
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The Installation of Float Valve (Diaphragm Type) :

- The valve body of main valve becomes functional by an Pressure Chamber inlet-guiding hole. This hole transfers pressure to pressure chamber. When enough pressure accumulates in the pressure chamber, it generates pushing force that makes the piston close to valve seat and generates the closing motion. There is another outlet-guiding hole in the pressure chamber. When the hole opens, the pressure in pressure chamber dissipates and valve gate is pushed open by coming water pressure.
- **Float Valve:** Uses a sub-valve (floating ball switch) to control the main valve. When the water level elevates to the full water level set by sub-valve (floating ball switch), the sub-valve (floating ball switch) closes and the back pressure chamber inside the main valve accumulates pressure rapidly and then closes to control the water level. In order to save space inside the pool and for easy maintenance, it is recommended to install the float valve outside the pool. Avoid upside-down installing the float valve.
- **Diaphragm Type Float Valve must be installed horizontally.**
- **Float Ball Switch must be installed lower or at the same level of the main valve.**





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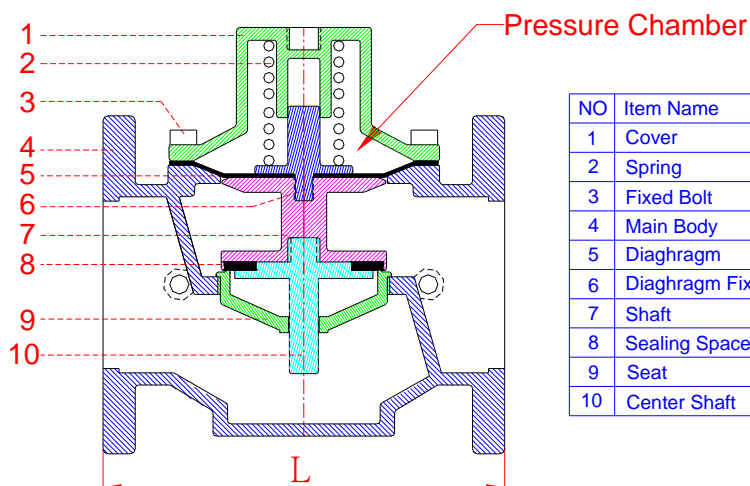
Breakdown Elimination

I 、 No water flow from the Valve:

1. Check the installation direction of the main valve and see whether the inlet pressure is too low. The valve's minimum pressure shall be over 0.2kg/cm^2 .
2. Dismantle the fixed seat and check Pressure Chamber outlet-guiding hole. If the water flow is smooth and the hole can not outflow water, it may be caused by the over low pressure or the impurities blocked inside the gate.
3. The valve gate immediately opens when dismantling the fixed seat shows that the fixed seat is blocked or the pipes are defective.

II 、 Valve cannot be closed:

1. Dismantle the fixed seat and block the Pressure Chamber outlet-guiding hole to check the valve can be closed or not. If the valve gate still can not be closed, it may be caused by the blocked Pressure Chamber inlet-guiding hole or the impurities blocked in the valve gate. Under this situation, please dismantle and maintain the valve body.
2. Dismantle the fixed seat and block the Pressure Chamber outlet-guiding hole to check the valve gate can be closed or not. If the valve can be closed, it means the sub-valve (floating ball switch) is defective or the pipes are defective.



NO	Item Name	Materials		
		Cast Iron	Ductile Iron	Stainless Steel
1	Cover	Cast Iron	Ductile Iron	Stainless Steel
2	Spring	Stainless Steel	Stainless steel	Stainless Steel
3	Fixed Bolt	Stainless Steel	Stainless steel	Stainless Steel
4	Main Body	Cast Iron	Ductile Iron	Stainless Steel
5	Diaphragm	NBR	NBR	NBR
6	Diaphragm Fixed Bar	Bronze	Bronze	Stainless Steel
7	Shaft	Cast Iron	Bronze	Stainless Steel
8	Sealing Spacer	NBR	NBR	NBR
9	Seat	Bronze	Bronze	Stainless Steel
10	Center Shaft	Bronze	Bronze	Stainless Steel

2" ~ 12" (DN50 ~ DN300)

Floating Valve Installation Diagram

Please do not install upside down!

