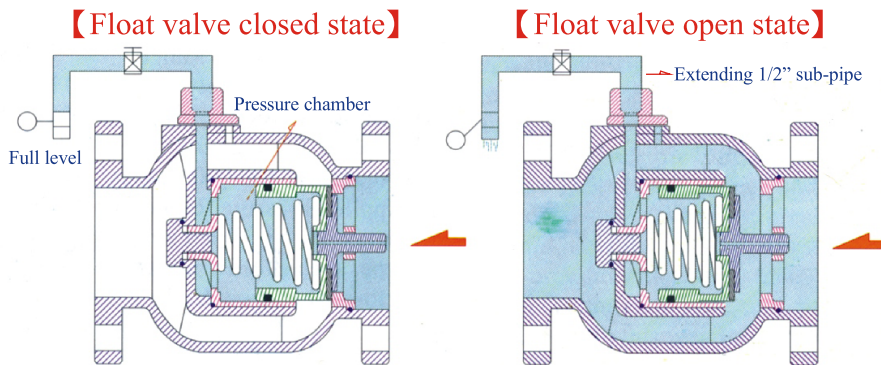




F L O A T V A L V E



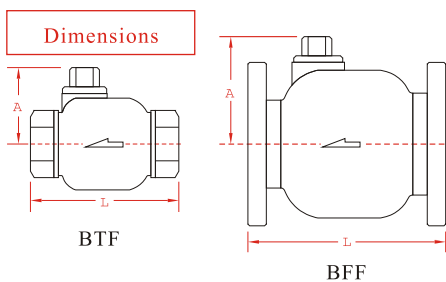
Float valve uses a sub-valve (floating ball switch) to control the main valve. When the water level elevates to the full water level set by sub-valve (floating ball switch), the sub-valve (floating ball switch) closes and the back pressure chamber inside the main valve accumulates pressure rapidly, which reversely pushes the piston valve to close. By this mechanism, the float valve can thus 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.



⊙At full water level, pressure accumulates in the pressure chamber and pushes the gate reversibly.

⊙At low water level, pressure in pressure chamber dissipates, and water pressure inside the pipe pushes the gate open.

- ▶ The working pressure should be greater than 0.3 kgf/cm², please check the pressure before installation.
- ▶ Please remove impurities or metal dusts inside the pipe thoroughly. If possible, please add filter to prevent pipe blocking.
- ▶ Vertical and horizontal installation is acceptable. Avoid upside-down installation under insufficient flow.
- ▶ Please uses high pressure float ball switch.



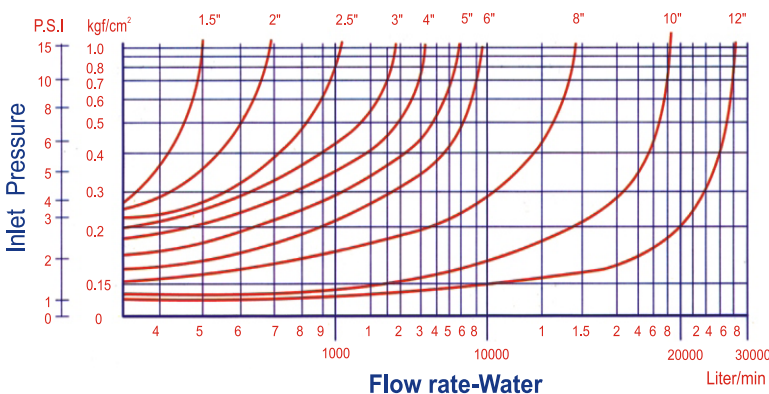
(Thread end)

Item No	Size	L(mm)	A(mm)	Weight(kg)	CV
BTF-40	1.5"	120	75	3	48
BTF-50	2"	200	95	8	75

(Flange end)

Item No	Size	L(mm)	A(mm)	Weight(kg)	CV
BFF-50	2"	190	95	12	75
BFF-65	2.5"	210	100	14	105
BFF-80	3"	225	115	19	140
BFF-100	4"	250	127	26	260
BFF-125	5"	280	150	37	390
BFF-150	6"	310	165	50	550
BFF-200	8"	420	205	94	1000
BFF-250	10"	470	240	150	1600
BFF-300	12"	530	275	200	2200
BFF-350	14"	600	320	280	3000

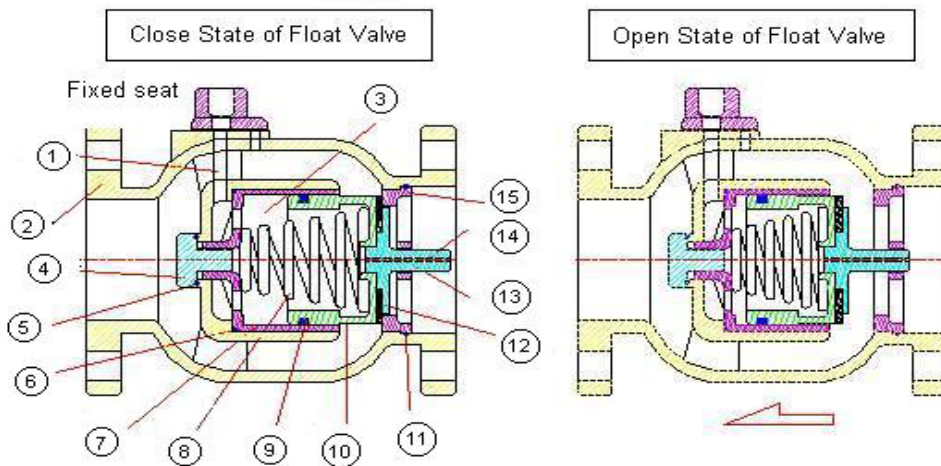
Flow Chart of Float Valve



⊙Production Size: 1.5" ~ 56"

The Installation of Float Valve:

- The valve body of main valve becomes functional by an 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.



NO.	ITEM NAME	NO.	ITEM NAME
1.	Outlet guiding hole (Controller inlet hole)	9.	U-ring
2.	Valve	10.	Piston
3.	Pressure chamber	11.	O-ring
4.	Cylinder bolt	12.	Sealing
5.	O-ring	13.	Shaft
6.	O-ring	14.	Inlet guiding hole
7.	Cylinder	15.	Seat
8.	Spring		

Breakdown Elimination

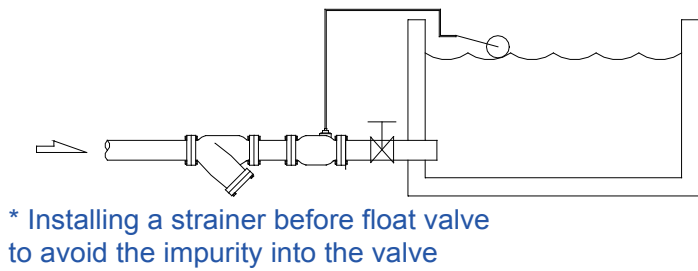
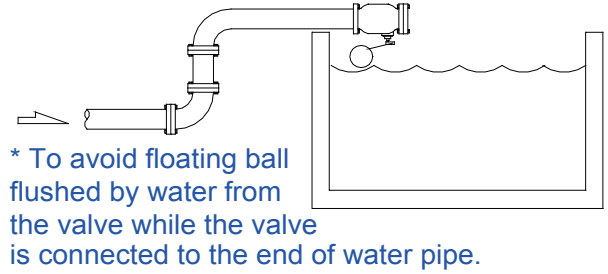
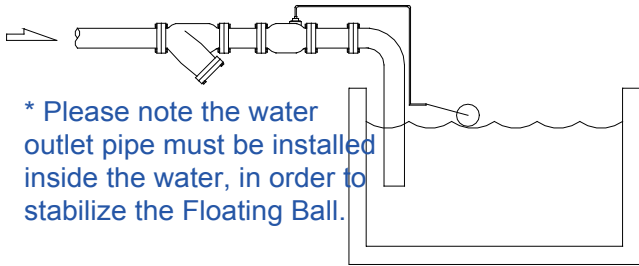
I · No water flow from the Valve Gate:

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. Dismantle the fixed seat and check 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 cylinder.
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 Gate cannot be closed:

1. Dismantle the fixed seat and block the outlet-guiding hole to check the valve gate can be closed or not. If the valve gate still can not be closed, it may be caused by the blocked 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 outlet-guiding hole to check the valve gate can be closed or not. If the valve gate can be closed, it means the sub-valve (floating ball switch) is defective or the pipes are defective.

Floating Valve Installation Diagram



Please do not install upside down!

