

Product Features

- Precise and repeatable water level control
- Ideal slow opening and closing functions
- Reliable full hydraulic control
- Reliable tightness
- Large flow
- Built-in strainer, to prevent the piping system blocking

FM500 diaphragm float valve is a fluid controlled valve. It keeps the water level in the storage tank at a relatively stable level. The float control switch is installed in the water tank when the water level is high and is connected to the basic valve through the pipeline. When the water level rises and exceeds the maximum limited level, the float pilot valve will fully close and the basic valve automatically closed. When the water level drops to the lowest limited level, the float pilot valve will be fully open, the basic valve will automatically open for water supplement until the level in the water storage tank is controlled within the stable ideal range.

If the optional check feature is selected, when the back pressure is generated, the return fluid will enter the air chamber to close the valve to prevent the fluid from back flow.



FM500

Material Specifications

Body/Bonnet: Ductile Iron/Stainless Steel
Disc & Stem: Stainless Steel
Piping: Bronze/stainless Steel/Rubber Hose
Diaphragm: NBR
Fasteners and Springs: Stainless Steel

Working Pressure Range

175PSI/235PSI/350PSI
 10Bar/16Bar/25Bar

Flange Standards

ANSI / BSEN / ISO / DIN

Temperature/Medium

0°C~100°C normal temperature water

Float Switch Parameters

Controller: 1/2" float valve
Pressure Regulator Material: Brass/Stainless Steel

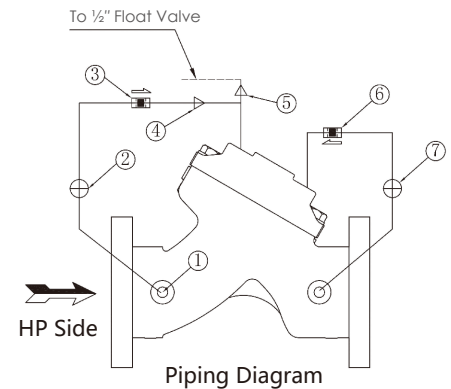
Please Provide the Following Data When Ordering

Valve figure number/size/pressure grade/ connecting end type/other optional accessories

* Note: In valve installation, it is strongly suggested that sufficient space should be left for easy maintenance in the future. A strainer shall be mounted in front of the valve to prevent foreign matters from blocking the valve.

List of Accessories

- ① Strainer
- ② Ball Valve
- ③ Check Valve (Optional)
- ④ Needle Type Regulating Valve
- ⑤ Needle Type Regulating Valve
- ⑥ Check Valve (Optional)
- ⑦ Ball Valve (Optional)



Typical Applications

Install the valve and float control switch as shown in the diagram. The float control switch should be installed on the relative static water surface at the outlet of the connected pipeline and positioned at the desired water level.

The outlet should be as far away from the float controller as possible (recommended: >5 m), otherwise, the level fluctuation generated by the water outlet may cause frequent valve opening and closing, generate noise and thus shorten the service life of the valve.

