

GENERAL SPECIFICATIONS

Model 8000 Float Valve (On/Off)

1.1 General

The float valve shall control the level in the tank by (a) opening when the float is down, indicating the tank needs filling, and (b) closing tightly when the float is up, indicating the tank is full. The primary control shall be a three-way, rotary disc, air gap float pilot which is adjustable for both the high and low level points. The float valve shall be a <size> Model 8000, <globe pattern, angle pattern>, as manufactured by OCV Control Valves, Tulsa, Oklahoma, USA.

1.2 Design

The float valve shall be a single-seated, line pressure operated, diaphragm actuated, pilot controlled globe valve. The valve shall seal by means of a corrosion-resistant seat and a resilient, rectangular seat disc. These, and other parts, shall be replaceable without removing the valve from the line. The stem of the main valve shall be guided top and bottom by integral bushings. Alignment of the body, bonnet and diaphragm assembly shall be by precision dowel pins. The diaphragm shall not be used as a seating surface, nor shall the pistons be used as an operating means. The pilot system shall include a Y-strainer and isolation ball valves. The float pilot shall be furnished separately for remote mounting in the tank. The float valve shall be operationally and hydrostatically tested prior to shipment.

1.3 Materials of Construction

The main valve body and bonnet shall be ductile iron per ASTM A536, Grade 65-45-12. End connections shall be <ANSI B16.42 Class 150# flange > <ANSI B16.42 Class 300# flange>, <ANSI B1.20.1 threaded> <grooved ends>. All ferrous surfaces shall be coated with a minimum of 4 mils of an NSF-61 approved epoxy. The main valve seat ring shall be bronze. Elastomers (diaphragms, resilient seats and O-rings) shall be Buna-N. The float pilot shall be bronze, with stainless steel internals. The 5" spherical float shall be stainless steel, as shall the float rods and linkage. The isolation ball valves shall be brass and control line tubing shall be copper.

1.4 Operating Conditions

The float valve shall be suitable for mounting at the base of the tank, with the float pilot remotely mounted inside the tank. Two field-installed lines shall connect the main valve and float pilot. The valve shall be capable of a maximum fill rate of <X> gpm at inlet pressures ranging from <X to X> psi with an outlet tank level of <X> feet.



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