float control for open tanks

specifications

- piping connections: 1/8" npt
- pressure rating: 300 psi max.
- temperature rating: water: to 160°f.
- materials: in contact with operating fluid: nylon reinforced delrin®, stainless steel, monel, with buna-n® seals
  float linkage and float rod: brass and pvc
  base plate: 316 stainless steel
  float: polypropylene
  other materials available:
  stainless steel float
  stainless steel rod and stops
  brass rods
  brass base plate

float
- 5 3/8" diameter. if maximum temperature exceeds 160°f, specify a stainless steel float. available at extra cost.

float rod
- standard: two 12" sections of pvc rod, with 12" extension increments at extra cost.
  larger counterweight required if float rod length exceeds 5'.
- optional: 24" stainless steel rod, with 24" extension increments at extra cost.
  larger counterweight required if float rod length exceeds 2 feet.

level differential
- 1" min. to 18" max. with pvc rod
  1" min. to 40" max. with stainless steel rod

operating fluids
- clean liquids or gases compatible with specified materials.

shipping weight
- 12 lbs.

dimensions (in inches)

- mount bracket a minimum of 1 - 1/2" from tank wall for float clearance.
- if rod is inserted thru top of tank use, 2" hole allowance for lateral rod movement.

accurate liquid level control
- fully hydraulic operation
- simple design, easy maintenance
- no lubrication necessary
- no gears, no mechanical linkage between valve and control

the cla-val model cf1-c1 float control is a float-actuated, multiport pilot control which provides non-modulating, two-position, on-off operation. it is used primarily to operate remotely located cla-val valves requiring three-way or four-way pilot valve operation. designed for use in open tanks, this control operates on a minimum level change of approximately one inch. maximum level change is nineteen inches. this level adjustment can be located up to 11 1/2 feet from the control by adding float rod extensions.

the float moves freely on the float rod. on rising liquid level, the float contacts the upper stop and lifts the float linkage to the "up" position. as the liquid level lowers, the control stays in the "up" position until the float contacts the lower stop. the control then shifts to the "down" position.

the cla-val model cf1-c1 float control is distributed by m&m control service, inc. at http://www.mmcontrol.com/claval-index.php.
Installation Data

The float control is mounted above the high water level in the tank. The valve is installed in the line leading to the tank and is connected to the float control pilot by tubing. (Min. 3/4" tubing)

When line pressure is used to operate the valve, tubing connections are made from the float control pilot to the valve cover, and also to the inlet side of the valve. An X46 Flow Clean Strainer must be installed in the inlet side of the valve. The control may be installed at any elevation above the valve, providing that the flowing line pressure in psi is equal to, or greater than, the vertical distance in feet between the valve and the float control.

An independent source of air or water may be used to operate the valve. The pressure from this independent source must constantly be equal to or greater than pressure at the valve inlet. The independent source is connected to the float control pilot in place of the supply line connected to the inlet side of the valve. If the Model 100-01 under the control of the CF1-C1 is 8" or larger, auxiliary Hytrol valves may be required. Consult factory for details.

Note: We recommend protecting Float Control tubing and valve from freezing temperatures.

For Controlling Hytrol Valve

For Controlling Powertrol Valves

For Controlling Two Valves Simultaneously

When Ordering, Please Specify

1. Catalog No. CF1-C1
2. Size and type of Valve to be controlled.
3. Material if different from standard
4. Float rod length if larger than 2 ft.

NOTE:

A stilling well (Min. 8" I.D.) must be provided around the float if the liquid surface is subject to turbulence, ripples or wind.