



YPL LEVEL & INSTRUMENTS

FLOAT LEVEL SWITCH: YPL-FLS12

Introduction

The float level switch designed for internal mounting through the top of the process vessel. The main advantage of these level switches is lower cost. Mounting connections are offered in 1" NPT, optional & in a variety of flange sizes & pressure ratings.

Principle of Operation

a) For single switch mechanism

The operating principle provides for magnetic switch action resulting from a change in liquid level, which moves a magnetic attraction sleeve into the field of an externally located magnet. The illustrations given indicate the operating principle using a float or displacer to provide the operating motion. A falling level causes a downward movement of a magnetic attraction sleeve moving it below the magnetic field generated by the externally mounted alnico magnet. The bias spring then causes the magnet to pull away from the enclosing tube, in turn actuating the switch. The reverse function takes place on rising level with the attraction sleeve being moved into the field causing the magnet to pull in towards the enclosing tube, in turn actuating the switch.

b) For double switch mechanism

The stainless steel magnetic attraction sleeve actuated by the float/displacer is outside the field of the alnico permanent magnet. The switch is in the released position & an electrical circuit is open for (L-C) connection of micro switch. The switch is held in the released position by gravity and the tension of spring which provides the snap action when the spring operates. When the float/displacer causes the attraction sleeve to enter the field of permanent magnet associated with a given switch, the magnet swings into contact with the non-magnetic enclosing tube & the switch is then actuated. In this position of the switch there is a closed electrical circuit between L-C micro switch.



FIG. 1

Specification

Service	: Condensation oil & viscous liquids
Specific Gravity	: Min. 0.6
Pressure	: Max. 50kg/cm ²
Temperature	: 150°C without cooling fins 350°C with cooling fins
Differential	: Max. 30mm from one switch assembly model 115mm maximum with individual differential Of switch as maximum 30mm for two switch assembly model
Attraction sleeve	: SS 410
Enclosing tube	: SS304

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