

Techtrol Utility Pump Switch - 'TUPS'

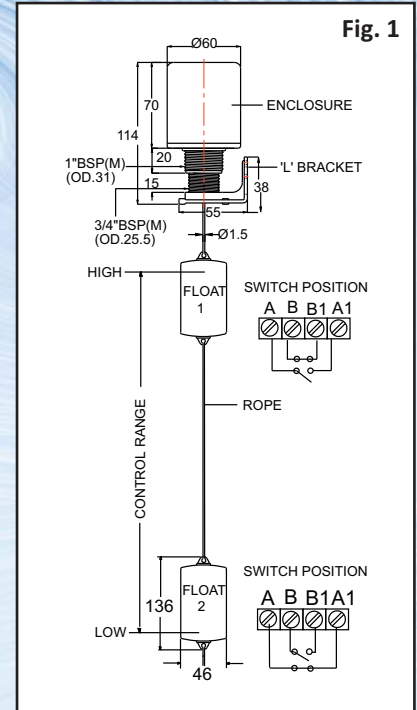


Innovating Level Controls Since 1984

TUPS is cost effective liquid level switch for pump control of liquid stored in tanks under ambient conditions.

Construction and Operation (Fig. 1)

It consists of two weighted floats suspended by a rope which is connected to an actuating lever at its upper end. Spacing between the floats determines the control range (Differential) which can be adjusted by simply relocating the floats along the rope. When rising liquid reaches the top end of float-1 (High Level) the lever moves upwards due to loss of weight of both floats to close contacts B & B1 and open contacts A & A1 (Tank Drain). When falling liquid reaches the lower end of float-2 (Low Level) and contact positions are reversed i.e. B & B1 open and A & A1 close (Tank Fill). These contact operation can be used for pump control of tank fill or drain. The switch can be easily installed on the tank thru 'L' bracket.

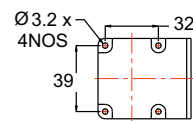


Specifications

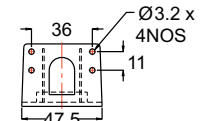
Liquid	: Water or similar liquid (sp.gr. ≈1)
Enclosure	: Plastic
Control Range	: 0.5 to 3 mtrs
Switch	: Micro switch
Contact Type	: (1NO + 1NC)
Contact Rating	: 5A @ 230VAC
Float	: 2 nos x Plastic
Mounting	: L Bracket
Operating Temperature	: 0 to 70°C
Operating Pressure	: Atmospheric

Mounting Dimensions of L Bracket :

TOP MOUNTING

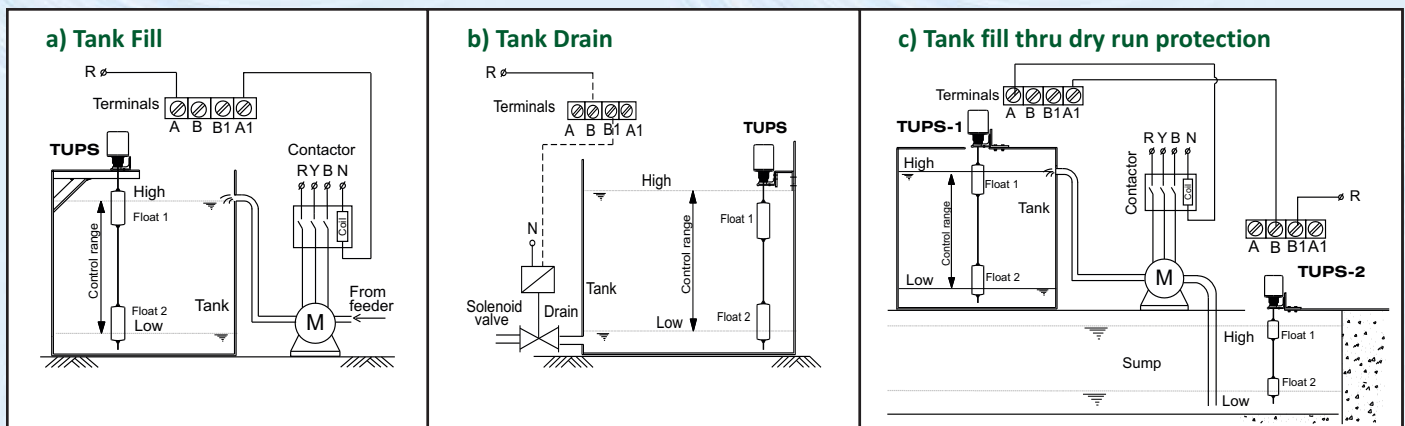


SIDE MOUNTING



Installation and Wiring

- 1) The switch can be installed on the tank top or it can be fixed on side wall of tank thru 'L' bracket arrangement.
- 2) Ensure that tank internals does not restrict the float movement.
- 3) Installation of switch should be away from inlet & outlet to avoid the problem of turbulence and suction of float.
- 4) It can be connected to the pump as shown in figures a, b & c for various operations.



Applications - Utility Tanks, Sumps, Overhead Kitchen Tanks, Automatic liquid feed.

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