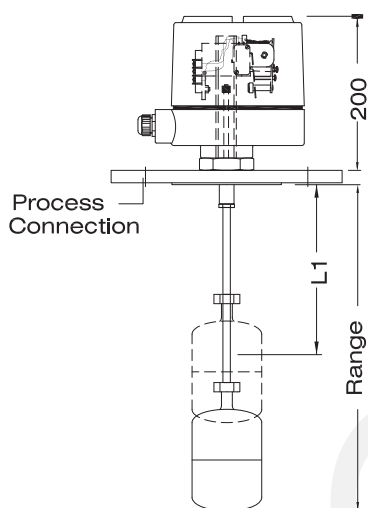


TECHTROL CHAMBER FLOAT SWITCH "CFS"

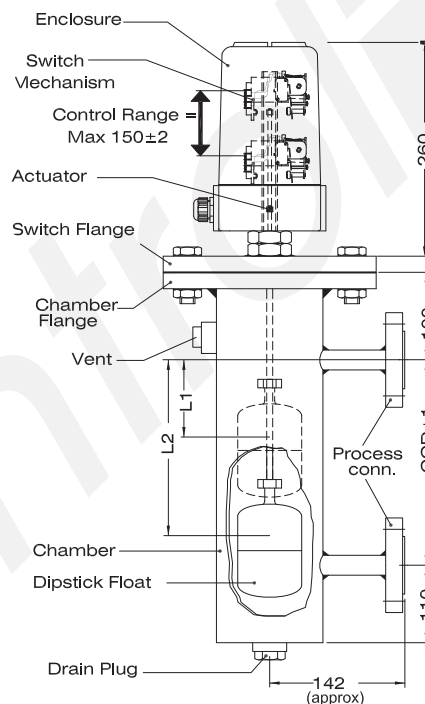
A versatile magnetic level switch for liquids with one or two preset levels. Single switch mechanism employed for one preset level and double switch mechanism is employed for two preset levels.

Fig 1 a)



Without Chamber x Single Switch Mechanism

Fig 1 b)



With Chamber x Dual Switch Mechanism



SALIENT FEATURES

- Bi-stable Switch Action
- Choice of Ex-proof Gr. IIC or ATEX Enclosure for Hazardous Areas
- Specially Designed Float Available for Interface Level Detection
- Choice of Hermetically Sealed Switch Mechanism
- Option of IBR approval

CONSTRUCTION & OPERATION

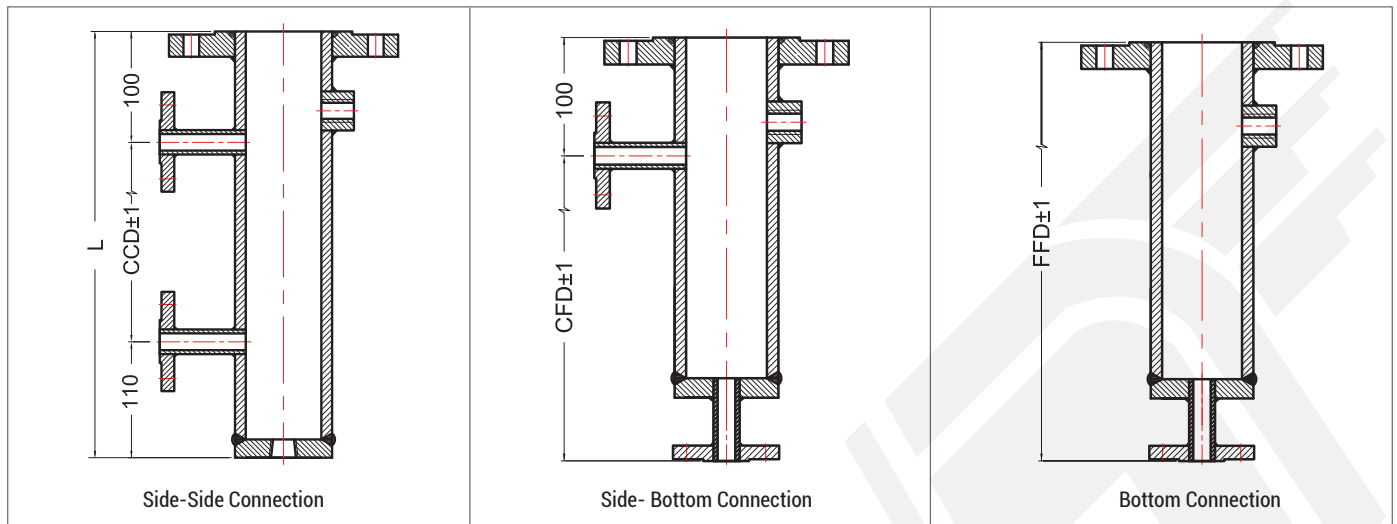
A dipstick float, carrying a unique magnetic system at its top end, is housed in a chamber. The float rises and falls corresponding to change in liquid level, which causes magnetic system to actuate a switch mechanism to provide potential free changeover contacts.

IMP: The preset level L1 (single switch mechanism) or L1, L2 (double switch mechanism) should be specified in the PO, as they are factory set and cannot be modified at site

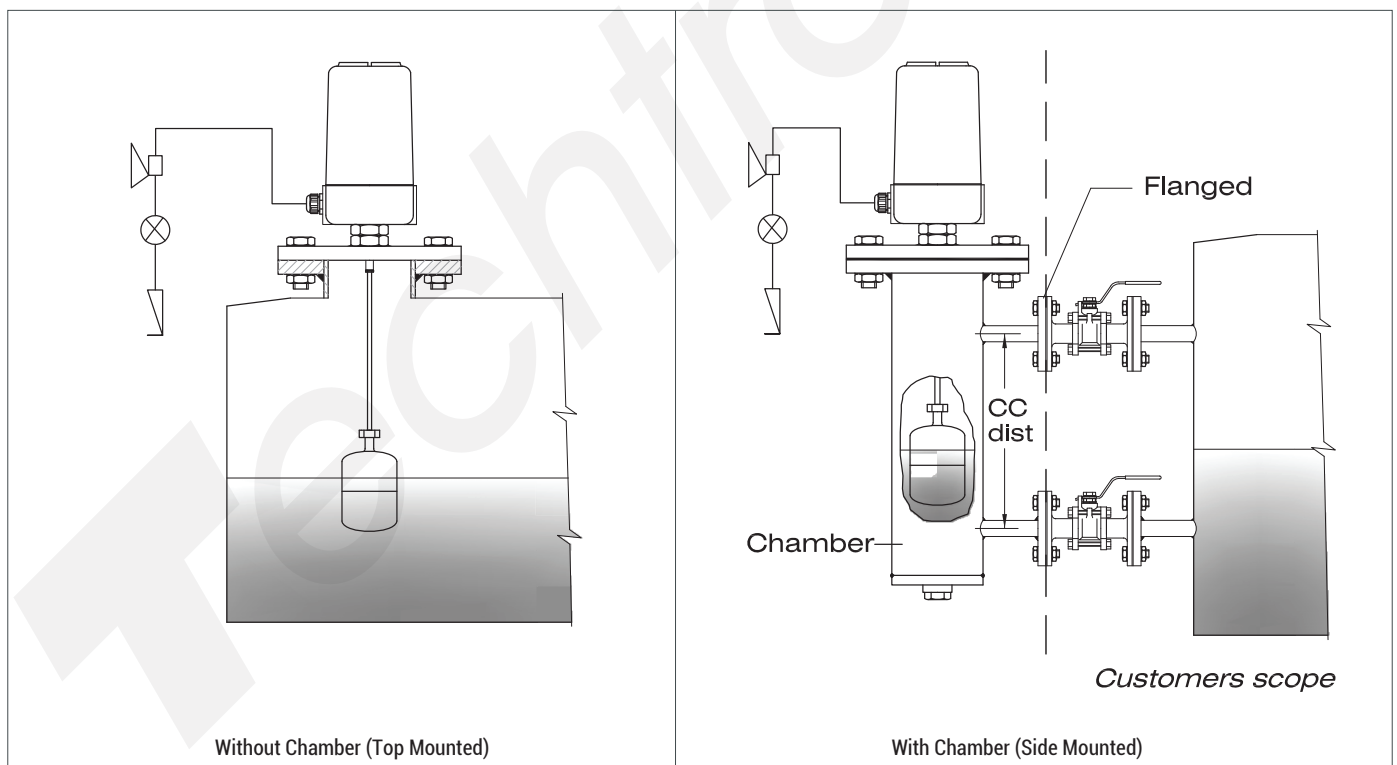
SPECIFICATIONS

Enclosure x Conduit Conn.	: Cast Al/SS304, IP66 x 3/4"ET or 1/2" NPT cable gland,brass Cast Al.Exd Gr.IIC (CCOE)x 1/2"NPT cable gland, brass Cast Al. ATEX Ex d IIB or IIC x 1/2" NPT, cable gland, brass
Dipstick Float x Stem	: Ø65 mm x SS304 or SS316
Liquid Specific Gravity	: ≥0.8
Interface Detection	: 0.2 difference between specific gravity of upper & lower liquid
Switch Mechanism	: Standard Microswitch or Microswitch in Hermetically Sealed Casing(2 x SPDT)
Switch Rating	: 5A, 250 VAC/ 24 VDC
Switching Action	: Bi-stable
Preset Levels	: One (L1) with single switch mechanism : Two (L1 & L2) with double switch mechanism
Switch Differential	: 20 ± 5 mm (fixed)
Accuracy	: ± 5 mm
Range / CC Distance	: 200 to 400 mm (fig 1a without chamber, fig 1b with chamber)
Control Range	: 150 mm
Process Connection MOC	: CS A105, SS304, SS316
Process Connection	: 25NB ASME Flange 150 # or 1" NPT (F) Screwed or 1"NB SW (with chamber) 80NB ASME 150 # Flange (without Chamber)
Chamber MOC	: CS A 106 or SS304 or SS316
Vent x Drain	: 1/2" NPT, Plug x Plug
Ambient Temperature	: 80°C
Max. Optg. Temperature	: 200°C 300°C (with Radiating Fins)
Max Test Pressure	: 10 Kg/cm ²
Gasket	: CAF, CNAF, PTFE
Nuts & Bolts	: CS Zinc plated

CHAMBER TYPES



INSTALLATION



APPLICATIONS

Separators, Storage Tanks, Drainage Systems, Heat Exchangers, Boilers, Concentrators.

MODEL IDENTIFICATION

[illegible]

8. Max. Temperature		
200 °C	S	
300 °C with radiating fins	H	
9. Gasket		
Not Provided		W
CAF		1
CNAF		2
PTFE		3
Others		0
10. Nuts & Bolts		
Not Provided		W
CS, Zinc plated		1
Others		0

ORDERING INFORMATION

With Chamber: Model No x Liquid & its SG. x Optg. Temp & Pressure x Preset Levels x CC distance

Without Chamber: Model No x Liquid & its SG. X Optg. Temp & Pressure x Preset Levels x Range

*All dimensions in mm except specified

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