Techtrol Vertical Level Control for Boiler - VLC

Techtrol™
Innovating Level Controls Since 1984

It is a versatile magnetic float operated device, top mounted in external chambers of steam boilers / pressure vessels and most suited for reliable automatic on-off control of boiler feed pumps, burner cut-outs or lock-outs, high or low level alarms or their combinations.

Salient Features :

- Bistable switch action.
- Adjustable multiple switch mechanisms.
- Process temperature upto 250°C.
- Working steam pressure upto 25 kg/cm^2 .
- IBR Approved for Steam Boiler.

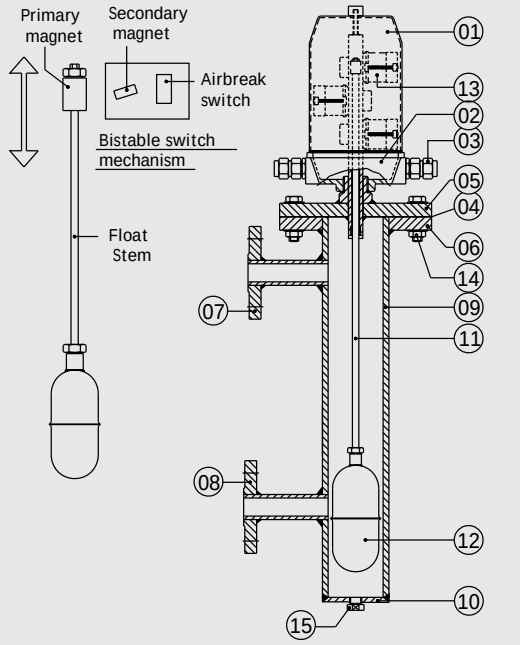
Construction :

The float mounted in the external chamber, moves upward or downward, depending on rising or falling of liquid in the boiler/ vessel.This initiates the float stem, carrying a primary magnet at its upper end, to slide up or down, inside a non-magnetic central tube and cause the secondary magnet to actuate air-break contacts for onward operation of auxiliary devices. A maximum of 3 switch mechanisms can be provided, which are housed in a weatherproof enclosure and clamped onto central tube, to provide a control range of 150mm.

Specifications :

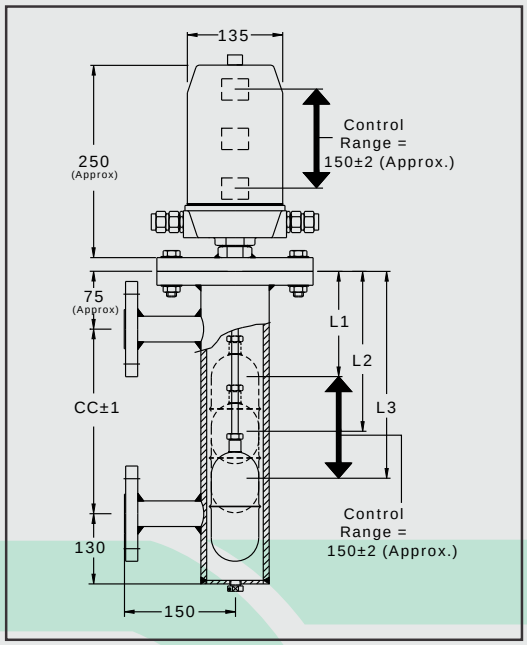
Switch Enclosure	:	Cast Al Base + CS Pwdr ctd Cover
Cable Entry	:	1/2" NPT Gland (Brass)
Switch Mechanism	:	Adjustable, Airbreakswitch x 5A, 230VAC (SPDT)
Switch Action	:	Bistable
No.of Switch Mechanisms	:	Max Three (Adjustable)
Control Range	:	150 mm (Approx)
Operating Differential	:	25±5mm
Terminals	:	To suit 2.5mm^2 conductor
Float & Stem	:	SS316
Float Size	:	Ø65 x 165 mm
Chamber	:	CS with End Plate or Dish End
Process Connections	:	25NB T 'H' or ASME 300# Flange.
Gasket	:	CAF, CNAF, SS304 spiral wound
CC Distances	:	200, 216, 300, 400 or 500 mm
Drain	:	1/2"NPT Plug or Globe Valve
Max Temperature	:	Standard - 250°C High Temp- 300°C with Radiating Fins
Test Pressure	:	upto 50 kg/cm^2
Min Liquid Density	:	0.8 g/cm^3

Fig. 1

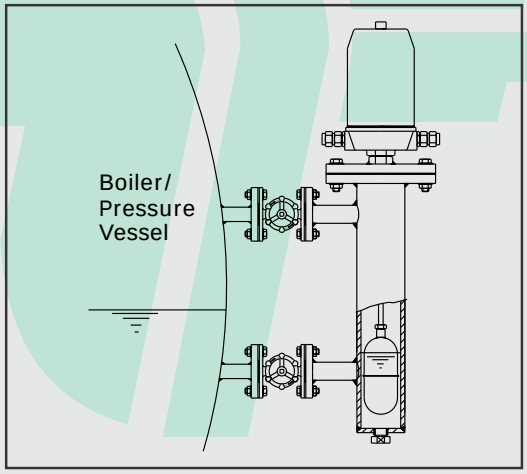


01) Switch enclosure
02) Base
03) Cable Entry
04) Gasket
05) Switch flange
06) Chamber flange
07) Steam side conn
08) Water side conn
09) Chamber
10) Chamber end cap
11) Float stem
12) Float
13) Airbreak switch assy
14) Bolts & nuts
15) Plug

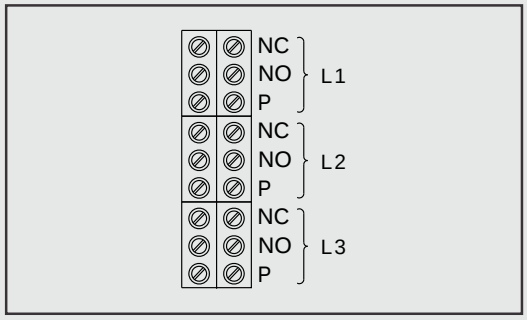
Schematic Diagram :



Installation :



Termination :



Ordering Information :

Please specify Model No., Operating Temp., Pressure & Set Point Positions (L1, L2 & L3)

Model Identification :

VLC - [ ][ ][ ][ ][ ][ ][ ][ ]

Approval
- None — W
- IBR — B

Process Flange
- 25NB, BS 10 T`H' — 1
- 25 NB ASME 300 # — 3
- 80NB ASME 300 # (w/o chamber) — 4
- Others — O

No. of Levels/Switch Mechanism
- One — 1
- Two — 2
- Three — 3

Chamber
- Without — W
- CS Chamber with end plate — 1
- CS Chamber with dish end — 2
- Others — O

CC Distance
- 200 — 2
- 300 — 3
- 400 — 4
- 500 — 5
- 216 — 6
- Others — O

Float & Stem
- SS316 — S
- Others — O

Temperature
- Standard - 250 °C — S
- High Temp - 300 °C with Radiating Fins — H

Drain
- Without (Without Chamber) — W
- 1/2" NPT Plug — 1
- 1/2" NPT Globe Valve — 2
- Other — O

All dimensions in mm except specified

Pune Techtrol Pvt Ltd [CIN : U31909PN1991PTC063403]

S-18, MIDC, Bhosari, Pune - 411026. India

+91-20-66342900 ho@punetechtrol.com www.punetechtrol.com

Works : J-52/7, MIDC, Bhosari, Pune - 411026. India +91-20-67313600

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