



STEAMGEN & CONTROL SYSTEMS
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Industrial Level Controls

VERTICAL INDUSTRIAL LEVEL CONTROL: SCS-VILC

Description

The SCS Industrial Level Controls are used for Controlling the level in the vessel.

These Controls are Magnetically Operated Controls, Vertical in Float Chambers, Meant for External Mounting on Steam Boilers/Vessels and are designed to meet such requirements of Controls as Automatic ON/OFF Control of Boiler Feed Pump, High/Medium/Low Alarm, Burner Cut-Out or any combination of these. These are Mounted with Independent Steam and Water Connections with Isolating Valves and normally Mounted Vertically close to the Boiler Gauge Glass.

Principal Of Operation

A Permanent Magnet of the Float-Rod Slides Vertically inside a non-magnetic Centre Tube and Transfers the Movements of the Float to a secondary Magnet in each Switch Unit, self holding Switch Units located on vertical support rods in proximity to the Centre Tube and Positioned by clamp Screws, having 2 pairs of Contacts Operated with a SPDT switch and held by repulsion between the Secondary and Tertiary Magnets of the Switch Unit Assembly.

The Switch Units have SPDT contacts having the following current carrying capacity:

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|--------------------------|--|
| 1. AC (25 to CPS) | DC Inductive Loads. |
| 2. Power Factor 1 to 0.4 | Time Consultant L/H = 40 Millisecond Max |
| 3. 5A at 250 Volt | 0.33A at 110V |
| 4. 3A at 440 Volt | 0.25A at 250V |

Specifications

Max Temperature (MT)	208 Deg. Cen., 224 Deg. Cen., 243 Deg. Cen., 400 Deg. Cen..
Max pressure (MP)	10.54 kg/cm ² , 17.54 kg/cm ² , 24.6 kg/cm ² , 35 kg/cm ² , 50 kg/cm ² .
Drain Valve	CL-800#- 15 NB BSP, Needle Valve.
Process Connections (PC)	CL-150#, CL-300#, CL-600#, BS-10 Table 'H', BS-10 Table 'J', DIN Standards.
Connection Size (NB)	15NB, 20 NB, 25 NB
Connection	Side & Side (SS), Side & Bottom (SB)
No. of Switches (S)	1/2/3/4 Adjustable at 25 mm each
Chamber Material	Carbon Steel.
Float (F)	Monel / SS-316L
Float-Rod (FR)	SS-304
Enclosure	IP-65/66 Blast Proof CRC Enclosure
Switches (ABS)	SPDT Magnetic Air-Break Switch / SK-50S Switch
Centre Distance of Flanges (CTC)	180mm / 200mm / 216mm / 300mm/ 320mm / 340mm / 350mm/ 400mm/ 450mm.

Codes for Ordering:

1. Vertical Industrial Level Control CTC-180mm (SCS-VILC-SS-PC-NB-S-F-ABS)
2. Vertical Industrial Level Control CTC-200mm (SCS-VILC-SS-PC-NB-S-F-ABS)
3. Vertical Industrial Level Control CTC-216mm (SCS-VILC-SS-PC-NB-S-F-ABS)
4. Vertical Industrial Level Control CTC-300mm (SCS-VILC-SS-PC-NB-S-F-ABS)
5. Vertical Industrial Level Control CTC-320mm (SCS-VILC-SS-PC-NB-S-F-ABS)
6. Vertical Industrial Level Control CTC-340mm (SCS-VILC-SS-PC-NB-S-F-ABS)
7. Vertical Industrial Level Control CTC-400mm (SCS-VILC-SS-PC-NB-S-F-ABS)
8. Vertical Industrial Level Control CTC-450mm (SCS-VILC-SS-PC-NB-S-F-ABS)

DENOTIONS:

PC-PROCESS CONNECTION

NB-NOMINAL BORE

S-NO. OF SWITCHES

F- TYPE OF FLOAT

ABS- TYPE OF SWITCH

CTC- CENTRE DISTANCE OF FLANGE

SS- CONNECTION