



Special Controls & Indicators:

Innovative
Solutions



VLI-1250A Visual Level Indicator Compact Size (Alloy Chamber & Float)

Available in lengths up to 20 feet (6.1 meters), the all stainless steel VLI-1250A features a slim profile for limited space installation. This compact size indicator has a 1¼" (31.75 mm) diameter 316L stainless steel pressure chamber withstanding up to 400 PSIG (27 bar).

The metal flag indicator rack is magnetically coupled to a metal ball float assembly moving vertically within the separate, pressure-tight stainless steel chamber that can be connected to the tank in an infinite variety of configurations. The indicator is fully isolated from the liquid and pressure to provide a clean and highly visible continuous level reading that is invulnerable to media contamination.

The high contrast black and gold or red and white flags in the external indicator strip are flipped to their "color side" as the magnetic ball float passes. The flags remain magnetically interlocked in their "color position" until the float inverts them to their original position as the liquid level falls. Liquid level is indicated by the interface between the "color" and "non-color" portions of the column.

The VLI-1250A can also be equipped with separate point level switch outputs for alarm and valve control functions.



Key Features:

- Great for tight spaces
- Fully isolated indicator and pressure chamber
- Point level switches available
- Durable all metal construction

Electrical (optional point level):

- SPST 50VA (standard), 100VA SPDT 20 or 100VA

Environmental:

- Temperature to +400° F (+204° C)
- Pressure to 400 psig (27 bar)

Applications:

- Beverage vessels and tanks
- Water tanks
- WFI skids
- DI water systems
- Sanitary mixing tanks
- Pharmaceutical and Biotech vessels

Designation	Housing	Float
L	316L stainless steel	316L stainless steel



Visual Level Indicator: Process Connections

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Model VLI-1250A

The following are common connection configurations normally stocked by Innovative. Consult the factory for other special connections or materials

TOP

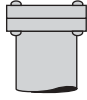
SIDE

BOTTOM

Fixed and Removable Blind Connections



FTB



RTB



SB

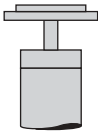


FBB

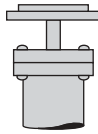


RBB

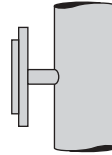
Fixed and Removable Flanged Connections



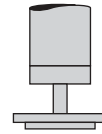
FTF



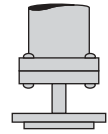
RTF



FSF



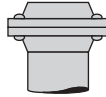
FBF



RBF



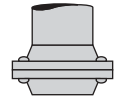
FTSF



RTSF



FBSF

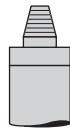


RBSF

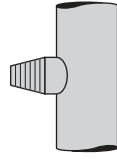
Fixed NPT Connections



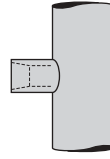
FTPF



FTPM



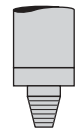
FSPM



FSPF



FBPF

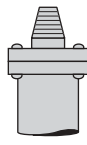


FBPM

Removable NPT Connections



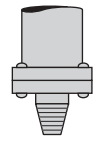
RTPF



RTPM

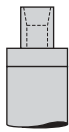


RBPF

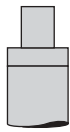


RBPM

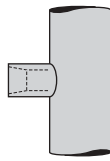
Fixed Weld Connections



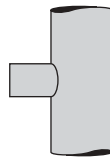
FTWS



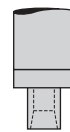
FTWB



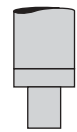
FWSM



FWSB

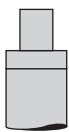


FBWS

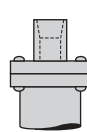


FBWB

Removable Weld Connections



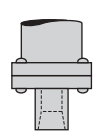
RTWB



RTWS



RBWB



RBWS



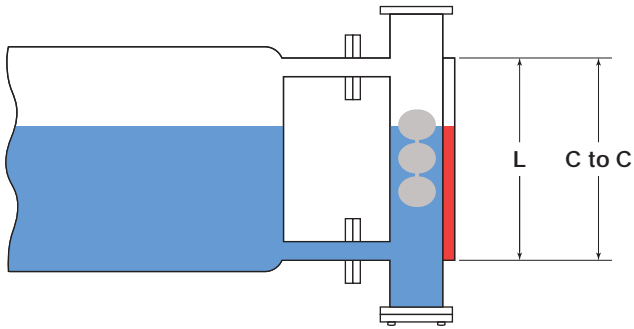
Visual Level Indicator: Mounting Configurations

Model VLI-1250A

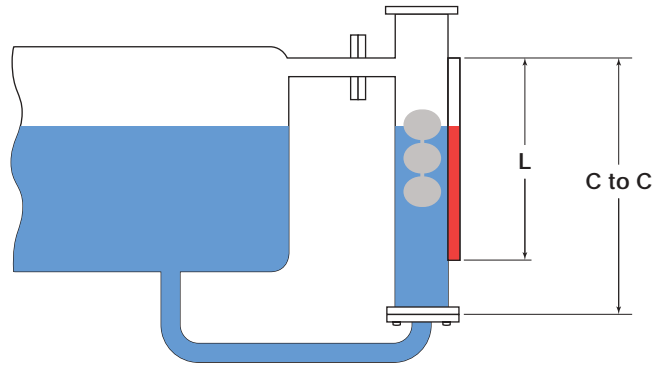
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Standard mounting for the VLI are the following combinations of side, top, and bottom connections. These are the positions where the liquid will enter and leave the indicator.

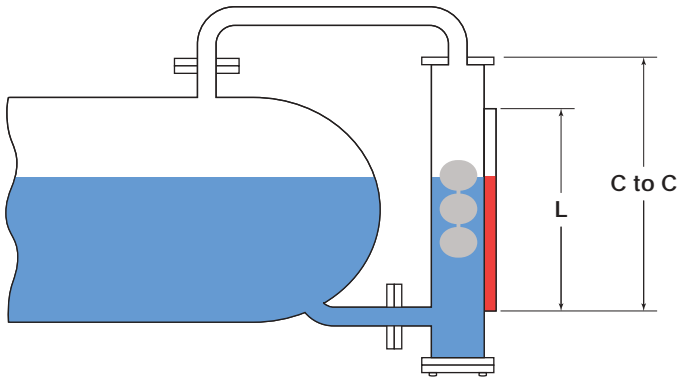
L = length of indication



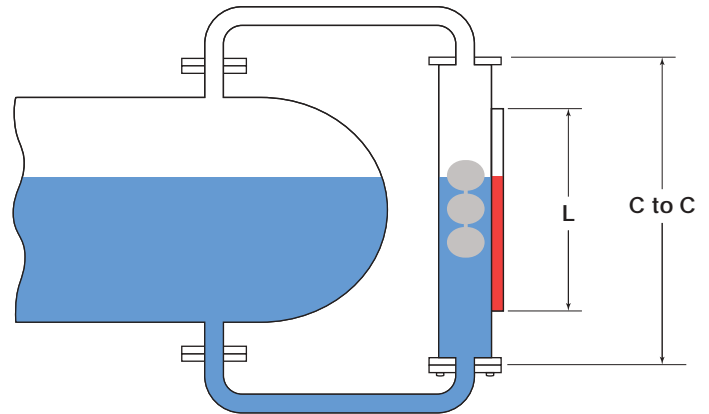
Type SS
Side and Side Process Connections
 $C \text{ to } C = L$



Type SB
Side and Bottom Process Connections
 $C \text{ to } C = L + 5" (127 \text{ mm})$



Type TS
Top and Side Process Connections
 $C \text{ to } C = L + 3 (76 \text{ mm})$



Type TB
Side and Bottom Process Connections
 $C \text{ to } C = L + 7.72" (196 \text{ mm})$

These dimensions are for reference purposes in standard configurations and may vary with special connections, material or specific gravity. The maximum available indication length is 240". The minimum specific gravity is 0.40. Please consult the factory for special designs and calibrations.