



VLI2500A

Description

A practical and versatile alternative to breakable and cloudy sight glasses, the all magnetically coupled VLI-2500A provides a safe, durable and easy to read indication for a wide variety of liquids and environments. The standard size indicator features a 2½" (63.5 mm) diameter 316L stainless steel pressure chamber withstanding up to 750 psig (51 bar) for excellent stability and dependable service.

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.

Principle of Operation

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-2500A can also be equipped with separate point level switch outputs for alarm and valve control functions.

Key Features

- High contrast—easy to read
- Fully isolated indicator and pressure chamber
- Point level switches available
- Durable all metal construction

Applications

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

Environmental

- Temperature to +400° F (+204° C)
- Pressure to 750 psig (51 bar)

Electrical (optional point level)

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



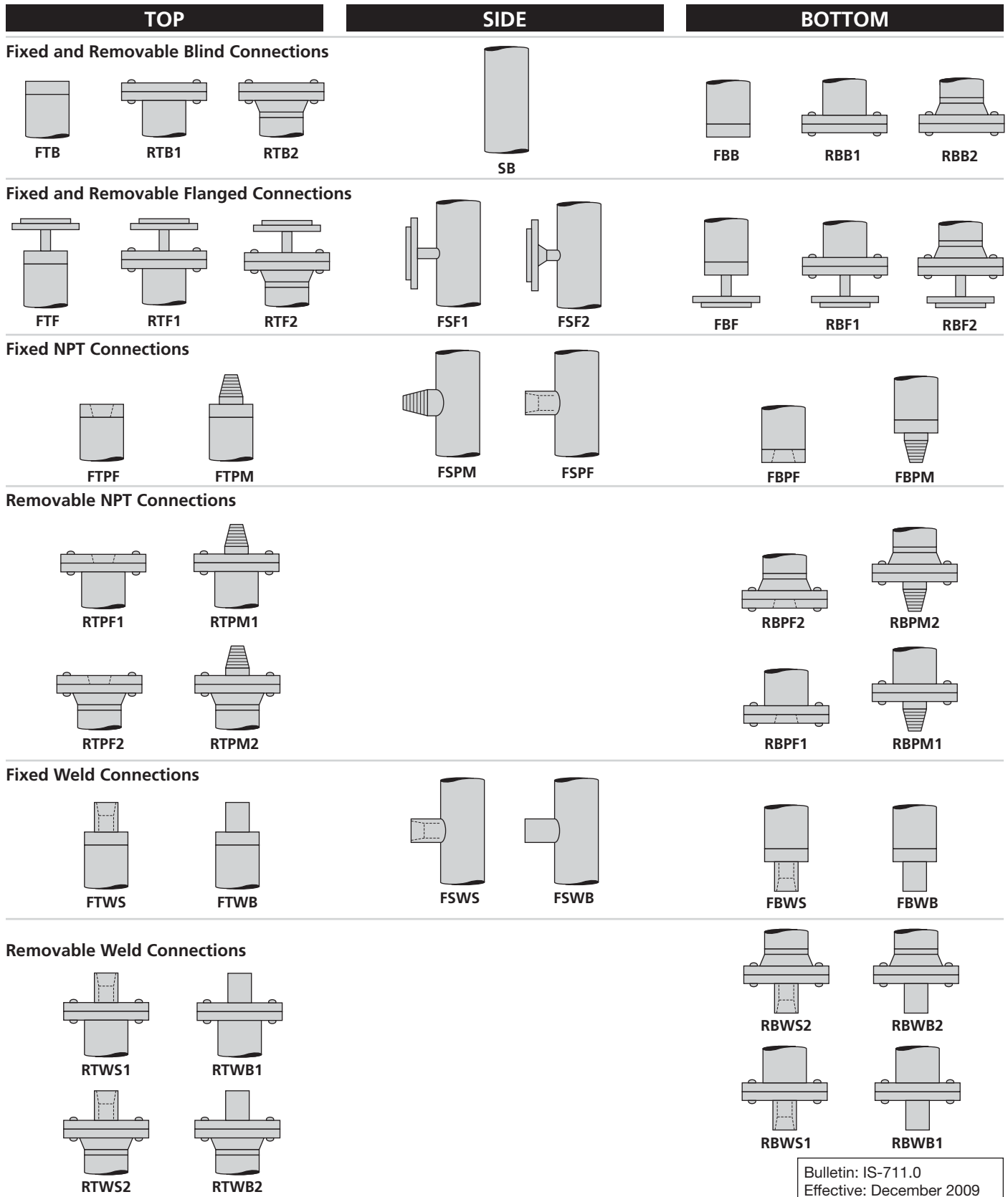
| Specifications | | |
|----------------|---------------------|----------------------|
| Designation | Housing | Float |
| L | 316 stainless steel | 316L stainless steel |
| LTi | 316 stainless steel | Titanium* |

Titanium (Ti-6Al-4V) for special high pressure requirements (Consult factory for design ratings)

Bulletin: IS-711.0
Effective: December 2009

Process Connections

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

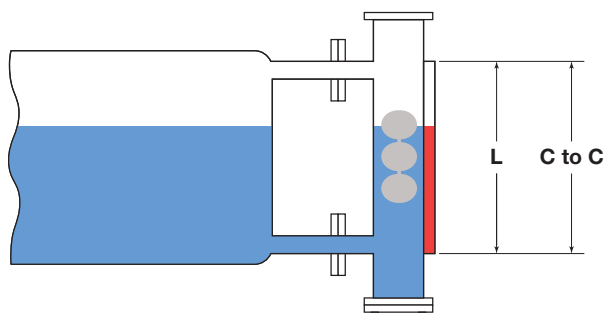


Bulletin: IS-711.0
Effective: December 2009

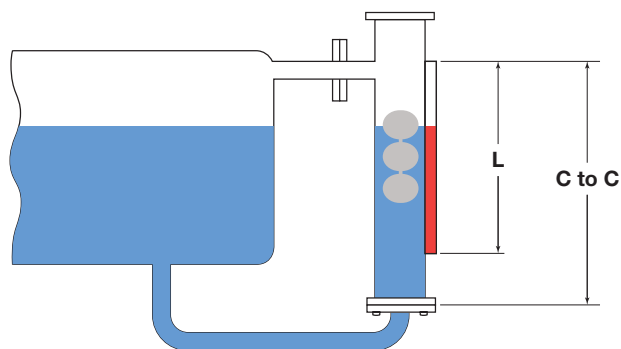
Mounting Configurations

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.

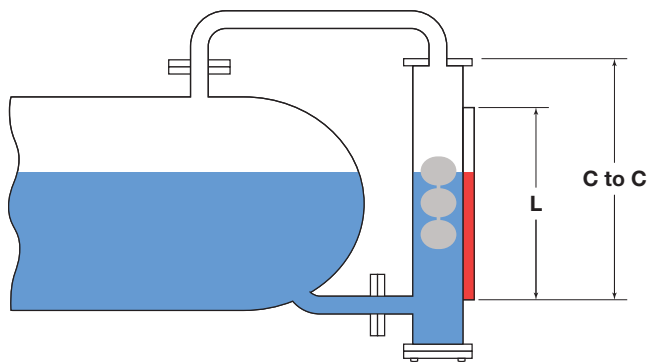
L = length of indication



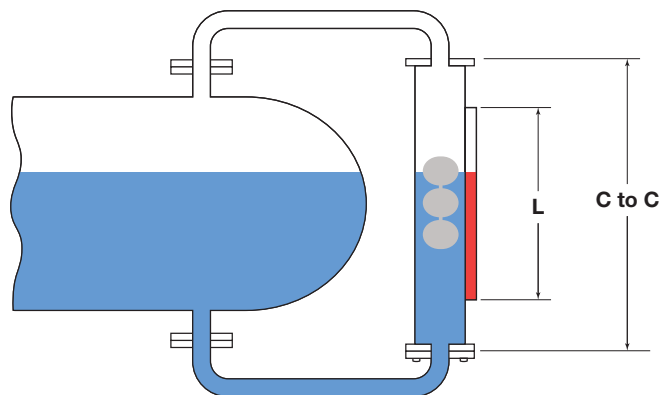
Type SS
Side and Side Process Connections
C to C = L



Type SB
Side and Bottom Process Connections
C to C = L + 6½" (165 mm)



Type TS
Top and Side Process Connections
C to C = L + ¾" (95 mm)



Type TB
Side and Bottom Process Connections
C to C = L + 10¼" (260)

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.