

VI-TLI SERIES

Tubular Level Indicator

Borosilicate glass tube construction with tie-rod or C-frame guard - simple, rugged and reliable level reading for atmospheric and pressurised tank applications.

Four models in MS, SS304, SS316 and PP for chemical, water treatment and process industry.



Description

VI-TLI Tubular Level Indicators are mounted parallel to the side of a tank to form a closed loop. As the process level changes, the liquid column in the transparent borosilicate glass tube follows directly, giving clear local level indication without any power supply. Tie-rod construction permits 360-degree visibility; C-frame construction is more robust and allows observation from front and rear. Both are available in integral or inline arrangements. Correct design, rugged construction and skilled workmanship deliver dependable performance and long service life. Material integrity is assured through strict chemical composition analysis in a standard laboratory.

PRODUCT CHARACTERISTICS

Two frame constructions

Tie-rod for 360-degree visibility; C-frame for front-and-rear observation - both in integral or inline arrangements.

Online glass replacement

Gland packing design allows the glass tube to be removed and replaced without disconnecting the gauge from the vessel.

H-grade borosilicate glass

16, 19 or 25 mm OD borosilicate glass tube with PTFE packing suits normal and viscous liquids alike.

Flexible process connections

Flanged, screwed or industrial fittings in vertical or horizontal orientation with standard or extended tube lengths.

GENERAL PERFORMANCE PARAMETERS

Applies to all variants unless otherwise specified

Construction	Tie-rod or C-frame guards in MS / SS
Glass tube	16 mm / 19 mm OD (normal liquids), 25 mm OD (viscous liquids), H-grade borosilicate
Single tube C/C distance	3,000 mm standard; 1,600 mm extended by coupling 2 or more tubes
Visibility	Approx. 150 mm less than the C/C distance
Packing material	Neoprene, Silicone, Viton or PTFE
Body material	MS, CS, ASTM A351/A351M CF8, CF8M and PP (standard); PTFE, MS + PTFE Lined, CF8 + PTFE Lined, CF8M + PTFE Lined (on request)
Construction	C-frame in FRP, MS powder coated, SS304; SS316 on request
Vessel connection	Flanged, screwed or industrial fittings, vertical or horizontal
Max. pressure	0 ~ 6 kg/cm ²
Max. temperature	0 ~ 200 °C (depends on packing / gasket material)
Scale	ABS laser engraved, SS laser engraved; LC 5 mm standard, LC 1 mm on request
Drain / vent	1/2" NPT drain and 3/4" vent plug or valve
Isolating valves	Straight / offset needle (integral); ball / needle (inline)

Note — Safety ball-check devices, glass protectors (acrylic or slotted metal), defrost / illuminator accessories and adjustable proximity or reed switch arrangements for level alarm are all available on request.

How to choose

All four models share the same borosilicate glass tube, scale and connection options. Select by body material and isolation arrangement: PP body for aggressive chemical mediums; SS body for food-grade, pharmaceutical or high-temperature duties; and choose between end-block (no isolation) or integral isolation valve variants based on whether online maintenance without vessel isolation is required.

01 PP Body

Polypropylene body for corrosive and aggressive chemical mediums.



PP End Block

VI-TLI-PP-EB

PP body with end-block construction - no isolation valve, suited for non-hazardous service where vessel isolation is managed upstream.



PP with Isolation Valve

VI-TLI-PP-IV

PP body with integral isolation valve for online glass removal without vessel shutdown.

02 SS Body

Stainless steel body for high-temperature, high-pressure and hygienic duties.



SS Body

VI-TLI-SS-EB

SS304 / SS316 body with tie-rod construction - clean, high-visibility design for general and food-grade process applications.



SS with Isolation Valve

VI-TLI-SS-IV

SS304 / SS316 body with integral isolation valve and C-frame guard for robust high-pressure or high-temperature installations.

ENQUIRIES

Tell us your process conditions.

Share your medium, pressure rating, temperature, vessel connection type and required tube length and we will confirm the right VI-TLI model and material for the application.

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