

“SZM” Type Level Indicator

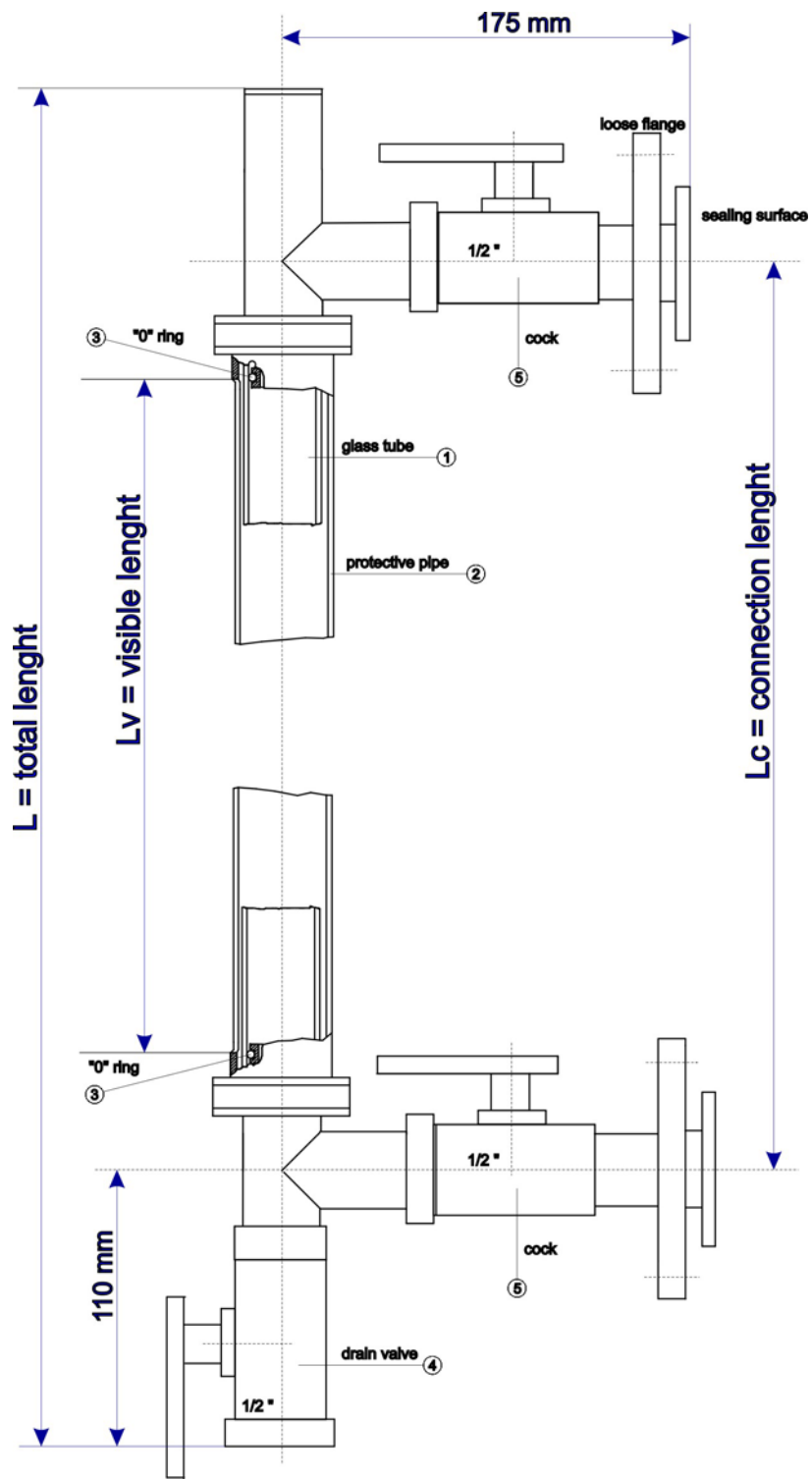
The **SZM** type glass tube level indicator is applicable for the indication of liquid level in small and middle-sized, standing or lying round containers used in food, pharmaceutical and chemical industries.

The loads occurring at the installation is absorbed by the fixing device, thus the glass tube is protected against breaking. The fixing device also protects the glass tube against the mechanical impacts that may occur following the installation. We recommend that the normal design level indicators be fitted on vessels containing pure liquids, while the indicators mounted with cleaning stubs (a low, or low-top stub) be fitted on containers filled with contaminated liquid. Installation length means the distance of the horizontal centre-lines of the two flanges, that is minimum 370 mm, and maximum 3080 mm. The glass tube longer than 1500 mm are welded. The lower, and top sealing of the glass tube is by two O-rings on each part respectively, the material of which is to be selected to correspond the liquid stored. The level indicator may be furnished with one or two level sensors as requested (Ex; design as well), through which the minimum and/or maximum level switch may be implemented. Anodised aluminium rule with the indication of level or volume may be mounted optionally onto the fixing device. The scale can be graved to the aluminium rule or the glass tube, or can be fitted to a foil on the glass tube.



Technical data

Installation dimension	370 – 3080 mm (according to the order, in mm graduation)
Length accuracy of manufacturing	Up to 1500 mm ± 1 mm, over 1500 mm ± 2 mm
Connection dimension	DN15 ÷ DN50 (PN16); ½” ÷ 2” (#150, #300) or union nut
Total length	Installation dimension + 152 mm
Length of glass indicator tube	Installation dimension – 81 mm
Visible length	Installation dimension – 100 mm
Glass indicator tube diameter	Normal design $\varnothing 22 \times 2,5$; cleanable design $\varnothing 34 \times 2,8$
Operating pressure	0 ÷ 6 bar
Operating temperature	0 ÷ 100 °C
Material quality	
Indicator tube	SCHOTT DURAN® borosilicate glass tube
Protective tube	1.4301 (304L)
Connection elements	1.4404 (316L), 1.4301 (304L) or Polypropylen
Loose flange	1.4404 (316L), 1.4301 (304L), 1.0112 (St 37) or PVC
Sealing	EPDM or NBR (Perbunan) or FPM (Viton)



Schematic diagram

Cleaning holes on end blocks:

	top	bottom
SZM-xx0	nothing	outlet
SZM-xx1	cleaning hole	outlet
SZM-xx2	nothing	cleaning hole
SZM-xx3	cleaning hole	cleaning hole

