

Level Indicators [LIR]

DN 10 ÷ DN 25

PN 16 ÷ PN 40

Application

- Level Indicators are designed specifically for level control for non-aggressive fluids in boilers and tanks.

Materials

- Level indicator valves are produced of cast carbon steel.
- Internal parts made of stainless steels.
- Body in which the glass is placed is made of cast carbon steel.
- In standard feature the glass is reflex, produced by renowned European producers.
- All gaskets are made of graphite which are anticipated for a long-term work.

Production and delivery

- Level indicator valves are very robust construction which makes possible quick closing.

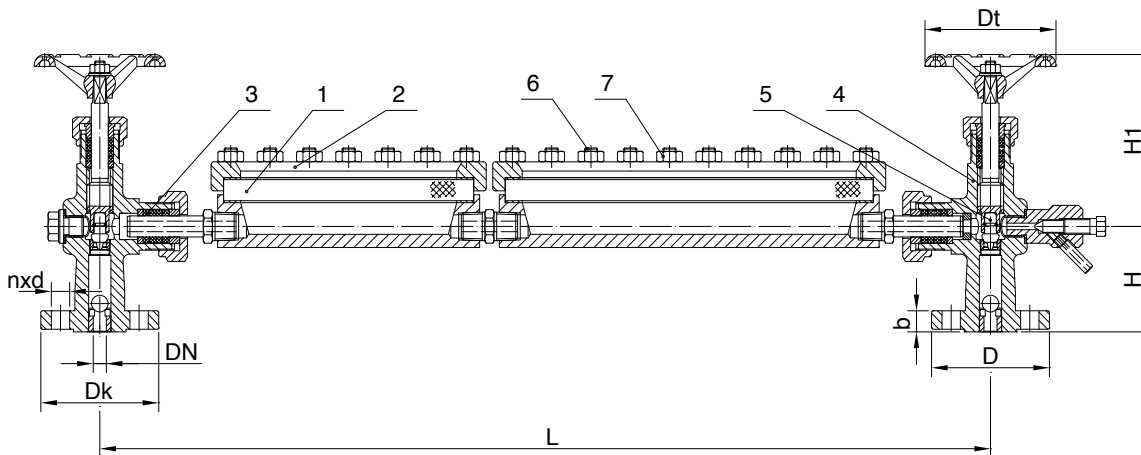
- Valve has connection according to EN 1092-1, Type B1.
- Glass is placed in the machine processed two-part body and fastened with the bolts.
- Body with glass is in the valve body free rotary as for as final tightening the gaskets in the body.
- Technical conditions of delivery and testing are according to EN 12266-1 (previous DIN 3230) for valve indicator, and body and glass joint are tested with pressure the same as nominal.

Options

- Level indicator for aggressive fluids made of chemical resistant materials.
- Shape of flange connections according to other standards and norms.
- Features with transparent glass and with mica shields.
- Level indicator complete with counter flanges, bolting and gaskets

Installation instructions

- Before installation and first run, the connecting pipeline should be thoroughly cleaned of all impurities and extraneous materials.
- By first run, suitable for need, tighten the gaskets on the valves where the glass is sealed.
- When installing, take care of the axial and normal adjustment of connections to avoid body distortion and glass damages.
- In the case of glass replacement, tighten the bolts on the glass body alternately from the middle towards ends with final torque of 25 Nm.



Drawing F.2.1 Parts and dimensions

List of materials

Table F.2.1

Item	Part		Application	
			Media can not corode the glass (e.g. oil, or hydrocarbons)	Media that can corode the glass (e.g. high temperature alkaline solutions, or hydrofluorik acid or steam saturated, or boiler-water)
1	Glass	Reflex	do T=120 °C → Pmax =40 bar	T _{max} =243°C → za Pmax =35 bar (stem saturated)
		Transparent	za T=400 °C → Pmax =22 bar	do T=120°C → Pmax =40 bar za T=400°C → Pmax =22* bar
2	Glass Body		1.0619	
3	Connection Gasket		pure graphite	
4	Valves		1.0619	
5	Internal Parts Of Valves		min. 13%Cr	
6	Stud Bolts		1.7225	
7	Nuts		1.1191	

* For water steam saturated must used mica shields

[LIR] Dimensions

Table F.2.2

DN	D	Dk	b	d	n	Dt	H	H1
	(mm)							
10	90	60	16	14	4	100	80	130
15	95	65						
20	105	75	18					
25	115	85						
L(mm)	350, 440, 575, 675, 755, 800, 890, 980, 1025, 1070, 1115 mm and other dimensions according to Customer request							

