Sight glass level indicator Model LGG

WIKA data sheet LM 33.01

Applications

- Heat transfer and refrigeration systems
- Plant for cryogenics
- Steam boilers
- Process industries: chemical plants, refineries, offshore, oil and gas, power plants

Special features

- Pressure rating PN 6 ... 250
- Operating temperatures from -200 ... +450 °C
- Carbon steels and stainless steels, suitable for pressure vessels in accordance with EN or ASME

Sight glass level indicator model LGG

Description

The model LGG sight glass indicator serves as a direct display for fluids and can be fitted with reflex or transparrent sight glasses, or with mica. For light-dark contrast, the refraction principle is used. For pressures under 25 bar, a glass tube display is used.

The model LGG sight glass indicator consists of a core in a glass holder, also known as a backplate. Incorporated into this backplate are the fluid channel (and if necessary the heating channel) and the seating face for the integral sealing and sightglasses.

The glasses and/or mica discs as well as the seals are fitted, secured and sealed with the aid of screws and a cover. Glasses are used in accordance with DIN 7081, meaning to max. temperatures of 243 °C (280 °C with mica design) for steam, up to 300 °C for other media, to 450 °C in special circumstances.

For the sight glass plates, for glass quality, only borosilicate glass is used. Outside of these operating conditions the natural material mica is used.

The connection to the process is generally made with valve heads with single or double isolation. Drain valves enable the sight glass indicator to be emptied and are fitted to the lower flange face. If necessary, a vent valve can be fitted at the top.

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General specifications				
Visible length VL	≤ min. centre-to-centre distance ME			
Glass type 1)	2 11 (34 x 17 mm)			
Operation	Handle or lever			
Connection of valve head (backplate)	Valve integrated or fitted			
Valve connecting channel	8 mm			
Process connection	Flange DIN or ANSI 2)			
Drain valve	Ball cock or valve			
Pressure gauge valve	Single or double isolation			
Weight	dependent on the design			

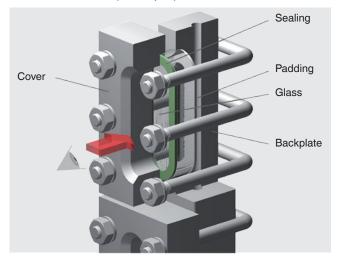
 Other glass types on reques 	1)	Other	glass	types	on	reques
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Design Data	
Working pressure	+6 +250 bar
Operating temperature	-200 +450 °C
Materials	
■ Sight glass plates	Borosilicate (in accordance with DIN 7081) or Mica
Glass holder, cover, backplate	Carbon steel, stainless steel, duplex, monel, inconel, hastelloy, titanium, etc.
■ Connection flange	Carbon steel or stainless steel
Drain components	Stainless steel ²⁾
■ Sealings	Graphite, rubber, PTFE
Certificates	Approvals and test certificates to
	EN 10204, NACE sour gas and
	customer specifications

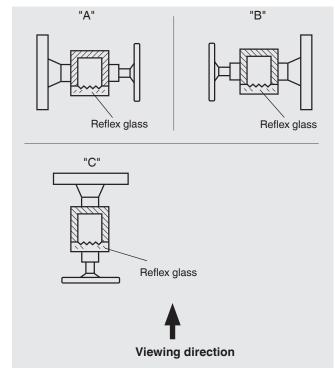
²⁾ for pressure vessels to EN or ASME

Construction (example)



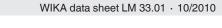
Options Low-water mark to TRD Pointer Accessories for pressure Ball-check valve gauge valve (at least 1 bar of vessel pressure is required for it to work) - Single or double isolation - Handle or lever Illumination Filament bulb or flourescent tube Heating external or integrated Scale Engraving to customer requirements Frost protection from Plexiglass Corrosion resistant glass Mica plates, FEP Foil Lining/coating Halar, rubber Glass protection Mica protection, internal and external Surface protection seawater resistant, painted or galvanised

Arrangement (example)



The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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