

INOX

FLUID LEVEL

Indicators

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INOX Fluid Level Indicators

INOX Fluid Level Indicators

In various industrial settings, the precise monitoring of liquid levels is crucial for maintaining operational efficiency and [safety](#) standards. One of the revolutionary tools contributing to this aspect is the **INOX Fluid Level Indicator**. Liquid level gauges facilitate quick and easily readable visual inspections. These gauges offer convenient viewing across various industrial settings, proving particularly suitable for bearings, transformers, and numerous other non-pressure applications. Constructed with Stainless Steel and glass tubes, they ensure prolonged durability and service life.

Understanding the INOX Fluid Level Indicator

The INOX Level Indicator is a precision technology crafted to accurately measure liquid levels in tanks or vessels. Constructed using top-tier stainless steel and durable materials, it is specifically engineered to endure severe environmental conditions and a wide range of chemical compositions. Its versatility extends its applicability to a broad spectrum of industries, encompassing the medical and food sectors, chemical and petrochemical industries (both onshore and offshore), mining, water treatment (including desalination), and numerous other fields.

INOX - Where Accuracy Meets Reliability

The Modular System:

A Fusion of Versatility and Cost Efficiency

Liquid level gauges are constructed based on a modular system, combining a diverse array of options and cost-efficiency. These gauges excel in meeting the most stringent demands for corrosion resistance and stability due to the use of stainless steel (316L) as the base material.

INOX equipment boasts remarkable resistance to acids and caustics, proving itself seawater-resistant and widely embraced across a vast spectrum of industrial applications.

In contrast, non-ferrous metals such as Al, Zn, Sn, Cu, and their alloys lack these exceptional characteristics.

INOX Fluid Level Indicators

INOX devices are engineered to meet the highest standards in functionality and safety. They can be safeguarded in accordance with [ATEX](#) directives. Additionally, special sealings made of Kalrez®, capable of enduring temperatures up to +360°C, are available upon request.

Features:

- INOX - Liquid Level Gauge
- Dust and water proofed ventilation acc. to IP44
- Sight glass made of borsilicate glass
- All metal parts are made of stainless steel AISI 316L (1.4404)
- Acid- und seawater resistant
- Max. temp. +360 °C, depending on the seal material
- Other size, threads, sight markings on request (metric, BSPP, BSPT, NPT)
- Optional acc. to ATEX



Socket connection



3 different socket systems



Frame sizes

Mounting Style

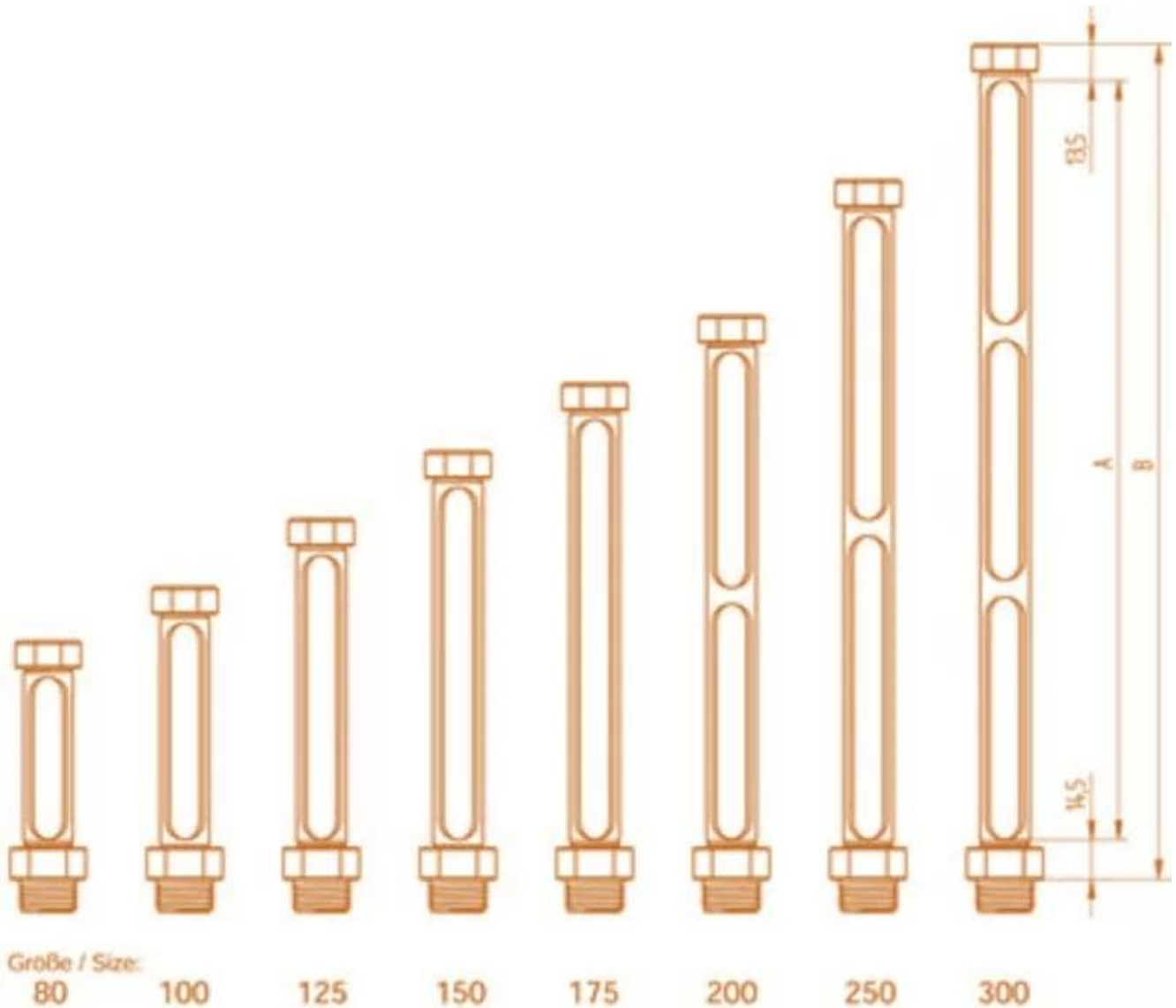
A = Vertical

R = Horizontal rotatable (adjustable)

F = Horizontal, Banjo Bolt with Port

INOX Fluid Level Indicators

Table type A (vertical)

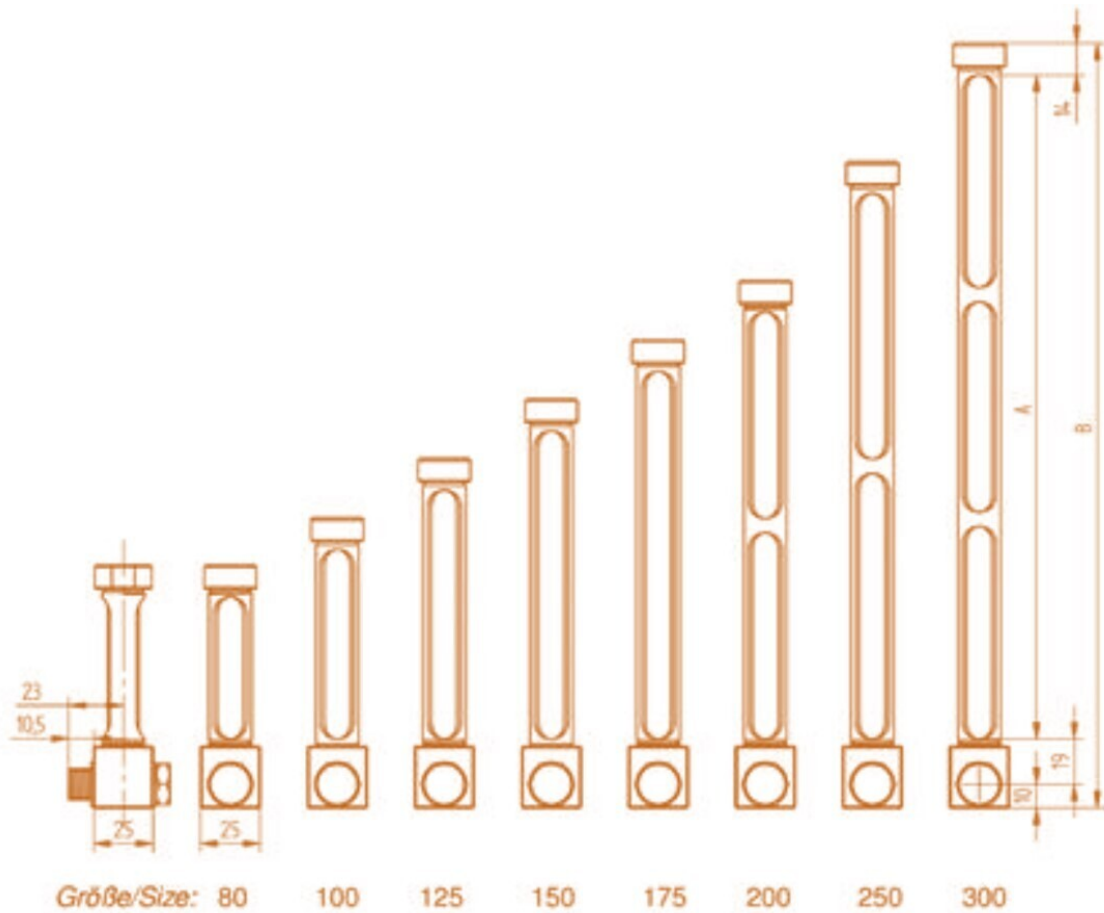


Nominal Size	A (mm) ca. 0,5 visible window	B (mm) +2/-0 G 1/2 total height	B (mm) +2/-0 G 3/8 total height	B (mm) +2/-0 G 1/4 total height
80	60	88	86	86
100	80	108	106	106
125	105	138	136	136
150	130	158	156	156
175	155	183	181	181
200	180	208	206	206
250	230	258	256	256
300	280	308	306	306

For ordering refer to table A

INOX Fluid Level Indicators

Table type R (horizontal)

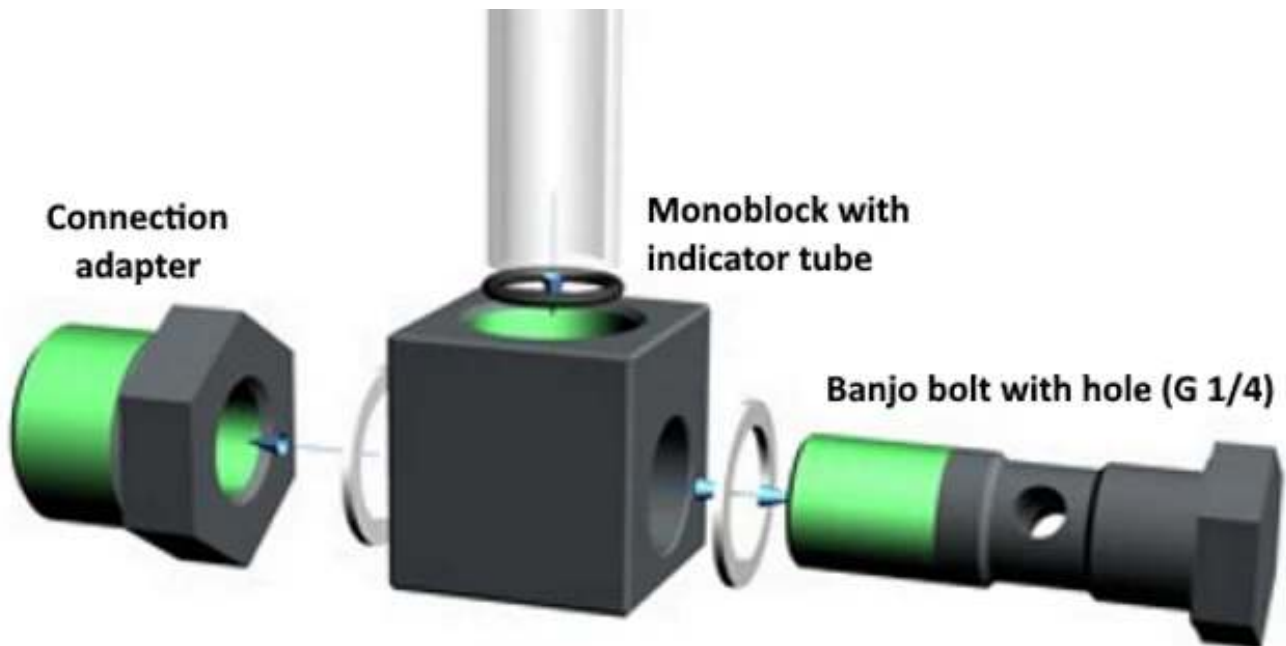


Nominal Size	A (mm) ca. 0,5 visible window	B (mm) +2/-0 G 1/2 total height
80	60	113
100	80	133
125	105	158
150	130	183
175	155	208
200	180	233
250	230	283
300	280	323

For ordering refer to table R

Banjo bolt for liquid level gauges

The INOX liquid level gauges are affixed to your equipment using a banjo bolt, offered in two distinct versions. One variant features a banjo bolt with a straightforward hole, facilitating the connection of the indicator to the fluid system, allowing observation of the liquid level.



The device does not need to be rotated for assembly. It is simply placed onto the pre-mounted adaptor and secured with the hollow screw.

Conversely, the opposite side remains closed. An alternative banjo bolt boasts a through bore, strategically designed to grant convenient access to your system, facilitating the installation of sensor technology, such as our optical sensor for low-level detection.

This additional port not only allows for easy installation of a sampling port to assess oil cleanliness but also offers the option to install a thermometer for added functionality.

Material Indicator

G = Glass (Borsilicate)

P = Acrylic Glass (PMMA)

X = ATEX-Version Glass + Steel Cover + Protection pipe PMMA



Cap types for Liquid Level Gauge

The cap types (**remote, vent, refill, closed system**) can be frequently adjusted in accordance with the requirements; an ATEX-protective tube can be added anytime.



Adaptor Connection Thread

0 = Banjo Bolt only (G1/4")

1 = 1/8"

2 = 1/4"

3 = 3/8"

4 = 1/2"

5 = 3/4"

Thread Type Connection Adaptor

R = BSPT tapered (EN10226)

G = BSW parallel (DIN 259)

N = NPT (US-Norm ANSI)

Nominal Size

Available nominal sizes: 80, 100, 125, 150, 175, 200, 250, 300

For installation dimensions see dimensions table for form A or R.

Gasket Indicator Type

V = FKM (e.g. Viton®)

N = NBR

Gasket Body


F = Aramid fiber

T = Glass fiber reinforced PTFE

Type Code

INOX Liquid Level Gauges Type Ranger

Partnumber "Level Indicator ANSI 316-L" explained (# LAGS2R150-V-T)

Part Number	L	A	G	S	2	R	150	V	T
Model L = Level Indicator - stainless steel - AISI 316L									
Mounting Position A = Vertical R = Horizontal rotatable (adjustable) F = Horizontal, Banjo, Bolt with Port									
Gauge Material G = Glas (Borsilicate) - max. temp. 360°C, continuous load, peak up to 500°C P = Acrylic Glass (PMMA), max. temp. 80°C X = ATEX-version Glass + steel cover + protection pipe PMMA									
Cap Style S = Standard (vented) C = Closed System (G1/8) R = Refill cap									
									
Adapter connection thread 0 = only hollow screw G 1/4" 1 = 1/8" (on request) 2 = 1/4" 3 = 3/8" 4 = 1/2" 5 = 3/4"									
Thread type adapter N = NPT (US-Norm ANSI) R = BSPT tapered (EN10226) G = BSW parallel (DIN 259)									
Nominal size (mm) (80, 100, 125, 150, 175, 200, 250, 300 mm). For installation dimensions see dimensionstable form A or R.									
Gauge gasked material N = NBR, max. temp. 120°C V = FKM (Viton), max. temp. 180°C T = PTFE (Teflon, max. Temp. 270°C)									
Body gasked material K = Klingersil C 4400, max. temp. 160°C T = PTFE (Teflon), max. temp. 270°C									

LAGS2R150-V-T is a Stainless Steel indicator with a vertical connection thread (Type A), glass indicator gauge, a standard vented cap, a 1/4" BSPT adaptor thread, 150 mm nominal size, FKM and aramid fiber gaskets.

Applications in Different Industries

1. Chemical Industry: In the chemical sector, precise measurement of various liquids is crucial to ensure the quality of products and safety. The INOX Level Indicator assists in accurately gauging chemical levels, preventing spillage and ensuring controlled handling.

2. Pharmaceutical Sector: Maintaining exact levels of pharmaceutical compounds is vital for product consistency and regulatory compliance. The INOX Level Indicator aids in achieving this precision, contributing to the production of high-quality pharmaceuticals.

3. Food and Beverage: From storage tanks for ingredients to monitoring levels in beverage production, this device plays a pivotal role in maintaining consistency, ensuring efficient operations and quality control in the food and beverage industry.

Advantages of the INOX Level Indicator

1. Increased Efficiency: By providing accurate measurements, this indicator optimizes inventory management and reduces downtime caused by inaccurate readings.

2. Cost-Effectiveness: Its durability and low maintenance requirements lead to cost savings over time, making it a cost-effective solution for industries.

3. Safety Enhancement: The ability to prevent potential hazards such as overflows or leaks contributes significantly to a safer working environment.

Economic Efficiency

The well-thought-out modular system ensures high economic efficiency. The level indicator can be connected to all types of threads using commercially available adaptors (threaded fittings). The captypes (ventilated IP34 (4), refill (5), "Closed System" (6)) can be adjusted according to requirements, and an ATEX protective tube (12+13) can be retrofitted at any time. Sources of errors due to incorrect material selection are eliminated, ensuring a high turnover speed. With a very clear range of parts, **over 360 different indicators can be assembled**, practically covering every application.

As industries continue to evolve, tools like the INOX Level Indicator will remain at the forefront, empowering businesses to streamline their processes and meet the demands of a dynamic market.

