Transparent level gauges

Direct visual level indication

A configurable transparent level gauge platform for process applications that require a clear, direct view of liquid level and interface level.

Model TLG

Configurable process connections, materials, isolation, venting, draining and application-specific accessories.

01 / Product overview

Direct level indication, configured around the process duty

A configurable transparent level gauge platform for continuous visual observation of liquid level and interface level.

A transparent view of the process level

Globe United Transparent Level Gauges are configured for direct visual observation of liquid level. The supplied legacy catalogue identifies a transparent viewing construction with selectable orientation, process connection, material, isolation-valve and accessory options.

The product family is described for critical, acidic, cryogenic and temperature-zone applications, with application-specific support for non-frosting extension, heating jacket, heat tracing, mica shielding and illumination. Final selection is governed by the approved order documentation and applicable project requirements.

Designed for application review

The legacy catalogue states process-use across refinery, petrochemical, chemical, power, fertilizer, food, pharmaceutical and metal-industry applications. Selection must be validated against the actual media and operating conditions.

Direct view · Configurable · Application-led

Representative legacy product photography. Final configuration is order-specific.

Typical operating environments

Chemical
Process vessels and corrosive media applications.

Oil & gas
Upstream and process-facility level observation.

Petrochemical
Plant process and utility measurement points.

Power
Utility and process support service.

02 / Catalog guide

From duty to order

Move from service context through the legacy selection fields to an approved order basis.

What the gauge provides

Function Direct visual indication of liquid level and interface level through a transparent viewing construction.

Configuration Orientation, centre distance, process connection, materials, isolation and accessory fields are selected around the duty.

Service support Special applications described in the legacy catalogue include cryogenic, high-temperature, corrosion and low-light observation requirements.

Order basis Final configuration is determined by the approved order data sheet, project documentation and nameplate.

Product boundary

This catalog presents the supplied legacy Transparent Level Gauge configuration architecture. It is not a GA drawing and does not define dimensions, pressure-temperature interaction, materials suitability or final installation geometry for a specific unit.

Catalog route

01 Confirm the service context — medium, pressure, temperature and visual-observation objective.

02 Build the gauge architecture — pressure category, orientation, centre distance and connection.

03 Select the materials and trim — pressure-boundary components, valve construction, vent and drain.

04 Verify the order basis — approved drawings, data sheet, project specification and nameplate govern supply.

Legacy configuration framework

TLG — X1 X2 X3 X4 X5 X6 X7
X8 X9 X10 X11 X12 X13 X14 X15

Each X-position corresponds to a legacy selection group. Confirm the final configuration with Globe United FZE.

Selection inputs to provide with an enquiry

Process

Medium, density, pressure, temperature, corrosion / compatibility and operating constraints.

Mechanical

Orientation, centre distance, connection standard, materials, valve arrangement and available space.

Visibility / options

Scale plate, non-frost extension, heating arrangement, mica shield, illumination and project documentation.

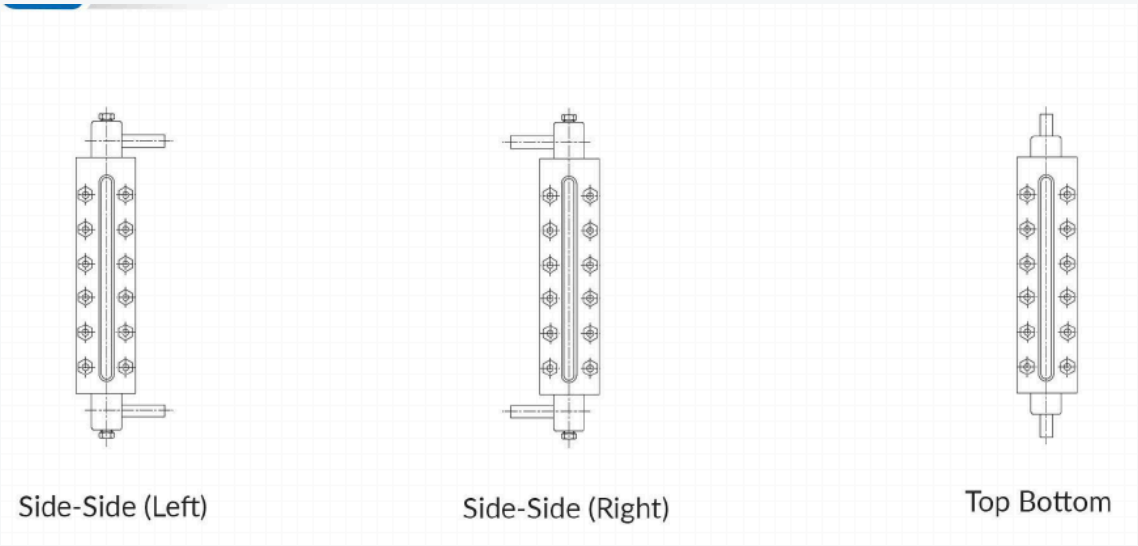
03 / Process connection orientation

Process connection orientations

The approved legacy source illustrates three orientation examples for visual reference. The final configuration is governed by the approved order documents.

Drawing context

The legacy orientation visual below shows side-side left, side-side right and top-bottom arrangements. It does not depict the additional side-side back orientation listed in field X2. No unapproved fourth drawing is implied.



Orientation selection note

Select the actual process orientation using field X2 together with the required centre-to-centre distance, connection, materials and order documentation. Final supplied geometry, dimensions, connections and accessories are order-specific.

04 / Legacy configuration fields

Process and construction selection

Use the grouped legacy fields below to capture the requested pressure category, orientation, process connection and primary material selections.

X1 — Type / pressure category

Code	Legacy option
A	Low pressure — 30 kg/cm² (≈ 29.4 bar)
B	Medium pressure — 85 kg/cm² (≈ 83.4 bar)
C	High pressure — 165 kg/cm² (≈ 161.8 bar)
D	Very high pressure — 200 kg/cm² (≈ 196.1 bar)

X2 — Process orientation

Code	Legacy option
TB	Top-bottom vertical
SR	Side-side right
SL	Side-side left
BL	Side-side back (right / left)

X3 — Centre-to-centre distance

State the required centre-to-centre distance in millimetres. The legacy order example is shown as 1000; final dimension must be defined for the project.

X4 — Process connection

Family	Legacy options
Flanged	1/2 in to 2 in specified 150 RF, 300 RF and 600 RF choices
Threaded	1/2 in to 2 in BSP(M) and NPT(M) choices
Other	Other connection arrangements on request

X5–X7 — Pressure-boundary materials

X5 selects the connection material, X6 the chamber material and X7 the cover-plate material from the legacy material group below.

Legacy material options
CS / ASTM A105 or A106 · SS304 · SS304L · SS316 · SS316L · PP · Monel 400 / 500 · titanium · Hastelloy B / C · Inconel 600 · other

Material selection

Material names above are legacy selection options, not a compatibility recommendation. Final selection must be confirmed against the actual process medium, temperature, pressure, corrosion conditions and project requirements.

05 / Legacy configuration fields

Isolation, venting, draining and options

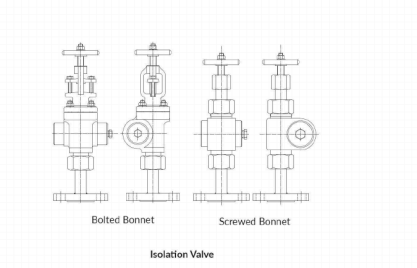
Record trim and accessory choices within the legacy configuration architecture. Final vent / drain arrangement and special options are physically confirmed by the approved order documentation.

X8–X10 — Fasteners, cushion and gasket

Field	Legacy options
X8	ASTM A193 Gr B7 / ASTM A194 Gr 2H, SS, anodized aluminium, CS plated, other
X9	C.A.F., P.T.F.E., Grafoil, other
X10	C.A.F., P.T.F.E., Grafoil, other

X11 — Isolation valve

Field	Legacy options
X11	Screwed bonnet offset construction, bolted bonnet offset construction, nipple, needle valve, other



X12–X14 — Vent, drain and scale

Field	Legacy options
X12	Vent: 1/2 in plugged, 3/4 in plugged, 1/2 in needle, ball, gate or globe valve, other
X13	Drain: 1/2 in plugged, 3/4 in plugged, 1/2 in needle, ball, gate or globe valve, other
X14	Calibration scale: powder-coated aluminium, aluminium, SS304, SS316, acrylic, other

X15 — Special option

Field	Legacy options
X15	Non-frost extension, heating jacket, mica shield, weatherproof illuminator, flameproof Group IIA/IIB illuminator, flameproof Group IIC illuminator, nil, other

CONFIGURATION SEQUENCE — NOT A COMPLETE PURCHASABLE CODE

Reference the fields in this order: X1 → X2 → X3 → X4 → X5 → X6 → X7 → X8 → X9 → X10 → X11 → X12 → X13 → X14 → X15.

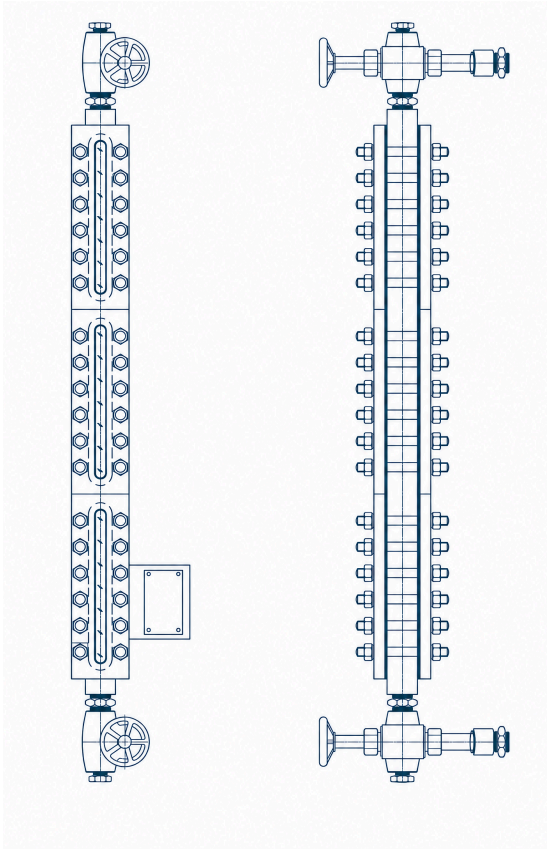
The legacy source provides option names rather than a full enumerated commercial code. Confirm the final selection against the approved order data sheet and project review.

06 / Sample approved drawings

Sample approved general-arrangement drawings

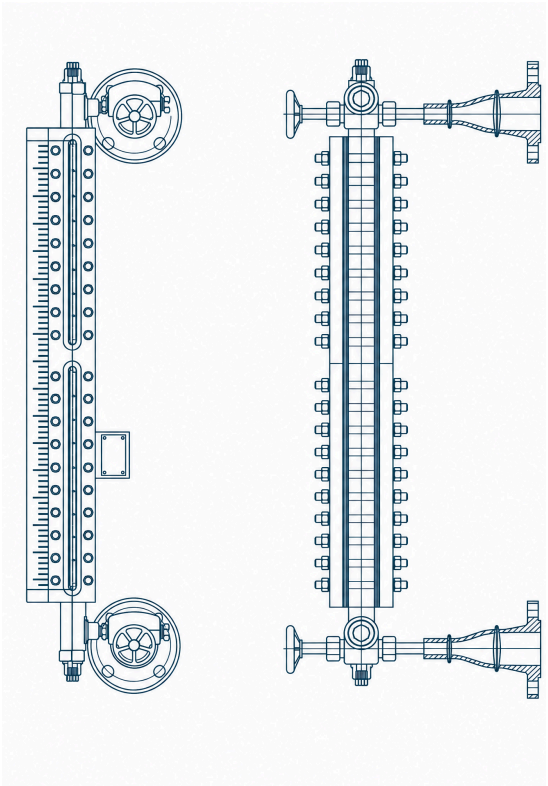
Two approved project drawings are shown as visual reference. They illustrate example assembly arrangements only and do not define a standard catalog configuration.

Sample A · approved GA reference



Source drawing: GUF-TLG+TW-04968-A-GR. Reference image only.

Sample B · approved GA reference



Source drawing: GUF-TLG-05175-B-AU. Reference image only.

Drawing control

These sample drawings are not dimensional, rating, materials, connection, accessory or order-selection references. Final supplied geometry, dimensions, materials, ratings, process connections, accessories and documentation are governed exclusively by the approved order data sheet, approved drawings and nameplate.

07 / Project definition

Build the application basis

Translate the requested level-gauge configuration into a duty package ready for technical clarification and quotation.

Information required for selection support

- **A** Process duty — medium, density, operating pressure and temperature, corrosion / compatibility and operating constraints.
- **B** Mechanical basis — orientation, centre distance, connection, material, isolation, vent and drain requirements.
- **C** Visibility requirement — scale plate, frost prevention, mica shield, heating jacket, heat tracing or illumination request.
- **D** Project requirements — material documentation, NACE scope, inspection, certificate basis and applicable technical documentation.

Special-application reference

The legacy catalog describes a non-frosting extension for cryogenic observation and lists acrylic window heights from 80 to 250 mm. It also describes a jacket-type gauge for congealable or ebullient liquids and illuminator options for low-light observation. Final applicability and certification must be confirmed for the ordered configuration.

Cryogenic

Legacy material / temperature guide extends from 0 to –200 °C; verify the selected arrangement against application requirements.

Illumination

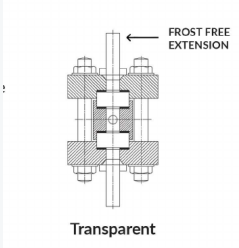
Legacy catalogue identifies weatherproof and flameproof illuminator options; confirm the exact ordered approval basis.

Operating safeguards

SAFE SERVICE PRINCIPLE

Before opening any pressure-boundary component, follow the approved site procedure to isolate the gauge, vent safely, drain as applicable and verify zero pressure.

Installation	Confirm vessel, piping, structural support and process connections are compatible with the approved drawing.
Commissioning	Verify configuration, orientation and project documentation before placing the unit into service.
Maintenance	Apply the owner's safety procedures, permits and approved maintenance instructions.
Precedence	The approved order documentation and site requirements take precedence over this general catalog.



Cryogenic reference

Approved legacy non-frosting extension illustration. It is not a dimensional or configuration drawing.

Clear execution interface

Material traceability

Coordinate project material and documentation needs at enquiry stage.

Inspection alignment

Define inspection, NDE and witness requirements in the approved scope.

Responsive support

Use a complete duty package to accelerate technical clarification and quotation.

08 / Contact

Specify your Transparent Level Gauge

Share the service and interface conditions required to develop the final configuration.

GLOBE UNITED FZE

Industrial process equipment and engineered solutions

Email info@globeunitedae.com

Web www.globeunitedae.com

Phone +971 50 330 1384

For a selection review or quotation

Please share the service conditions, required configuration fields, vessel / process connection information, requested materials and level indication requirements. Globe United can then coordinate the final configuration against the approved project basis.

Catalog limitation

This catalog is a commercial and selection guide. It does not constitute an approved engineering drawing, installation instruction or certified technical data sheet. Final supplied configuration, materials, dimensions, design limits, accessories, inspection scope and documentation are governed exclusively by the approved order data sheet, approved drawings and nameplate.

Document control

Field	Detail
Document	Transparent Level Gauges — Product Catalog
Revision	TLG.CAT.R32.0826
Issue date	August 2026
Technical source	Globe United FZE, Transparent Level Gauges legacy catalog supplied by client