

GLASS LEVEL GAUGES

- WITH REFLEX GLASSES
- WITH TRANSPARENT GLASSES
- WELD-ON TYPE
- WITH GLASS TUBE
- WITH MICROWAVE TRANSMITTER

Reflex level gauge
type DS LG - RBR GR18



Reflex level gauge
type DS LG - RBF GR18



Reflex level gauge
type DS LG - RDR GR18



Transparent level gauge
with illumination lamp EEx d
type DS LG - TPF GR18



Reflex level gauge
with monolithic shut-off cocks
type DS LG - RTR MT18



Reflex level gauge
with ball valves
type DS LG - RTF SBB



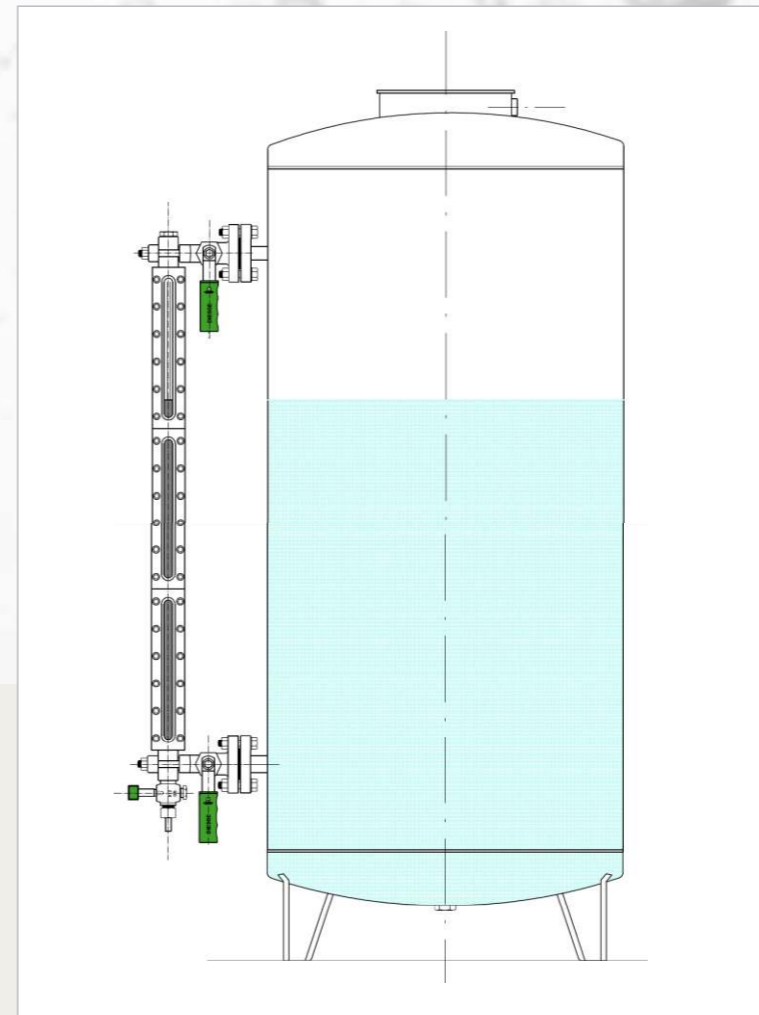
Tube and protection type
DS LG - TVR GR18

TO RECOMMEND THE MOST SUITABLE LEVEL GAUGE, PLEASE PROVIDE THE FOLLOWING ESSENTIAL DATA WHEN ASKING FOR ADVICE OR QUOTATION.

► essential data

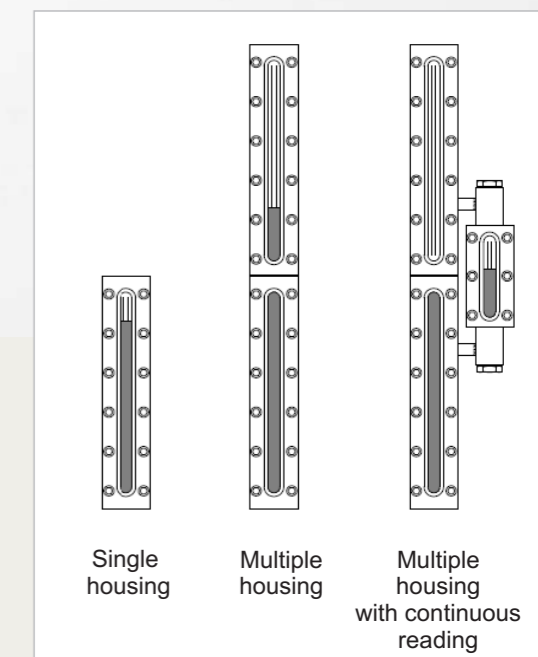
- ► CENTRE-TO-CENTRE DISTANCE (distance between process connections)
- MINIMUM VISIBLE LENGTH REQUIRED
- ► TYPE OF CONNECTIONS (flanged-threaded-weld-on) and related STANDARDS (UNI-ANSI-DIN...)
- POSITION OF PROCESS CONNECTIONS
- POSITION OF THE VALVE HANDLING
- ► REQUIRED MATERIAL (wetted and non-wetted parts)
- ► TYPE OF FLUID
- ► DESIGN AND MAXIMUM OPERATING PRESSURES
- ► DESIGN AND MAXIMUM OPERATING TEMPERATURES
- ANY ADDITIONAL ACCESSORIES

Glass level gauges give very accurate level readings, making them the ideal product for calibrating other instruments as well. They play a crucial role during system start-up.



READING TYPE

The required visible length depends on the type of fluid and the shape of the tank. The visible length with a single glass varies from 95 mm to 320 mm. If the required visible length exceeds these measurements, additional glasses of the same length are joined together and mounted on a single bar. To ensure continuous reading along a housing consisting of numerous glasses, one or more housings can be placed on the side at the points where the reading is interrupted.



WELD-ON LEVEL GAUGES

This type of level gauge is designed to be welded on to the tank and withstand the pressure inside it.

It is made from both carbon steel and stainless steel and can take reflex and transparent glasses. Reflex glasses are recommended as they improve visibility.

In order to prevent warping or distortions while the level gauge is in service, the technician tasked with installing the product must reinforce the wall of the tank where the gauge is to be welded on.

For visible lengths exceeding 320 mm, we recommend welding additional gauges on different axes to avoid weakening the tank structure.

During welding operations (which must only be carried out prior to gauge assembly), special care must be taken to avoid exposing the weld-on base to high temperatures for long periods of time as this may compromise the resistance of the gauge when in operation.

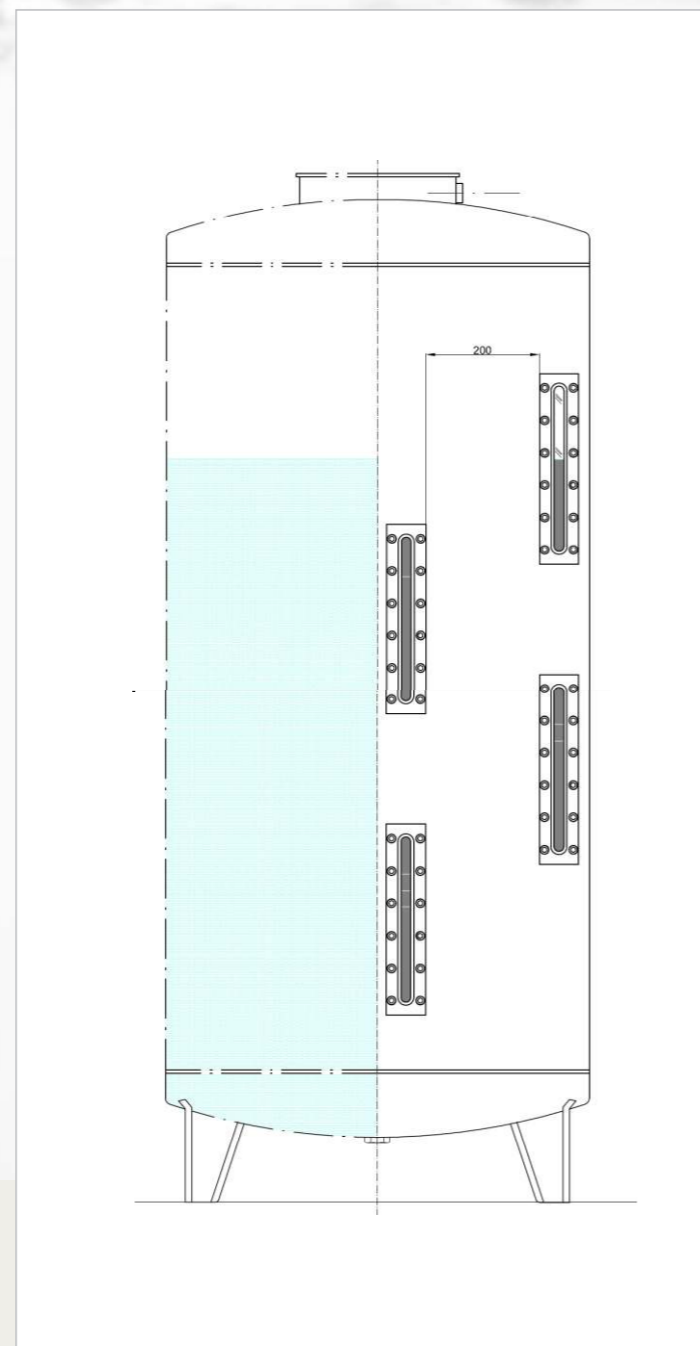
Operating limits / Conditions:

Process:

Max. pressure: ANSI 300 rating (A105: 51 bar;
AISI 316L: 49.6 bar) @ 38°C

Max. temperature: 300°C (max. temperature allowed by borosilicate glasses as per the DIN 7081 standard - see page 1.69)

On request: ANSI 600 rating (A105: 102 bar;
AISI 316L: 99.3 bar) @ 38°C



Materials / Specifications

Weld-on base:

- standard: flat with a hole running along the whole visible length
- additional options: with radius (state the tank radius); with 2 holes (Ø: 15 mm) at the far ends of the visible length

Wetted parts:

- standard: galvanized ASTM A105 or A105 LF2 carbon steel, ASTM A182 F316L stainless steel
- additional options: on request

Non-wetted parts:

- standard: galvanized carbon steel, AISI 316L stainless steel
- additional options: on request

Gaskets: (see page 1.71)

- standard: graphite
- additional options: PTFE; other extras on request

Glasses: (see page 1.69)

- reflex or transparent borosilicate glasses, thermally pre-stressed and extra hard as per the DIN 7081 standard

Spare parts:

Our spare parts are interchangeable with those of major international manufacturers.

For the full range of complete sets, turn to the spares section on page 1.69.

Accessories:

Mica or PCTFE protective shield (for transparent glass only), calibrated scale, non-frosting extension, minimum level arrow (see page 1.55 for details)

Certifications (on request):

- NACE MR0175
- Others on request

Sole agent in Indonesia : PT. Instrumentation Engineering and Services (08111371371)



This kind of level gauge can only be tested once it has been welded on to the tank in question. All DIESSE components are individually checked and tested in accordance with company quality procedures and the industry regulations currently in effect. Certificates can be issued on request.