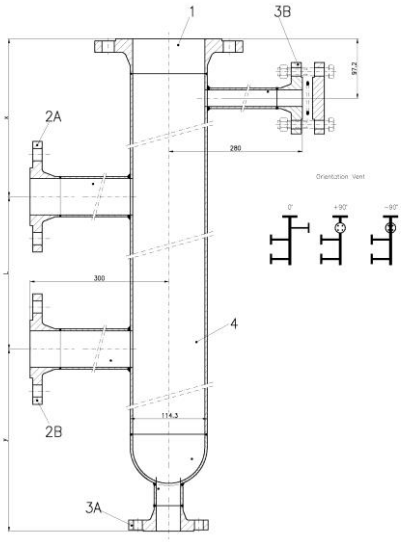
Operational Handling and Safety Precautions

General



The fill level tank or the vessel under consideration, respectively, solely serve to indicate the liquid level within the corresponding vessel.

The manufacturer accepts responsibility for the intended design in accordance with the data provided by the purchaser. Proper assembly and use of the tank according to the regulations are the responsibility of the purchaser.

The material (type of material and section thickness) has been selected to provide resistance to the specified medium.

This relates to the pressure, temperature and composition of the medium.

Proper utilisation

Computations providing documented evidence of conformity are drawn up for the pressure and temperature resistance on order. In addition, the vessel undergoes a pressure test with water. Both tests are documented accordingly and are part and parcel of the documentation.

The purchaser shall provide sufficient shock absorption in the case of anticipated vibration.

General technical data

Contents	:	litres	(see rating plate)
Material	:		(see material certification)
Pressure design layout	:	bar g	(see rating plate)
Temperature rating	:	°C	(see rating plate)
Designation	:	CE0035	(see rating plate)

CE marking

Appropriate tests have been performed for the attainment of the CE mark. These test records are an integral part of the documentation.

The vessel has been accepted by the Rhineland Technical Control Board.

The following tests have not been undertaken and are the responsibility of the operator:

- Precautions for safety in handling and operation
- Protection against exceeding admissible pressure device limits
- Armature parts that have a safety function
- External fire

Assembly

Assembly work may be undertaken only by competent personnel. The vessel should be installed perpendicularly so that the discharge nozzle (3A) is pointing downwards. Furthermore, it must be ensured that the pipes are free from any additional attachment loads.

Flanges connect with the process via lateral connectors (2A + 2B). These have to be manufactured by means of bolts and gaskets and are not part of the supply schedule. Only suitable bolts and gaskets may be employed for the flange connections, unless different requirements are stated here with reference to the medium (cp. also requirements in AD2000, B7 + 8, section 2). Self-supporting flanges should be provided as a rule for the RF flange sealing surfaces.

Drainage is effected via the lower connection (drainage nozzle 3A). Ventilation is via the lateral drainage nozzle (3B).

The fill-level adapter unions (2A + 2B) are intended for the measurement of the charging level of the liquid medium.

Commissioning

It is imperative that the following points be clarified before putting the equipment into operation:

- Is the vessel mounted securely?
- Are all connections to the process, fill-level measurement and/or drainage imperviously connected so as to be leak-proof?
- Are devices provided that will ensure the functionality of the vessel?

  These are:

  - Temperature control
  - Pressure monitoring
  - Liquid level monitoring
  - Shut-off device for sealing off the tank in the event of process malfunction
  - Pressure/ temperature / overfilling

Operation

It is imperative that steps be taken to ensure that the following conditions are not exceeded in the operation of the vessel (the warranty in respect of these points is the responsibility of the operator):

- Pressure (as stated in the layout design)
- Temperature (as stated in the layout design)
- The fill level in the vessel (may lead to faulty operation of the tank)

Prior to drainage, the tank must be depressurised and the temperature should correspond to the surroundings, otherwise equipment shall be provided to ensure that drainage under the prevailing conditions does not result in the operating personnel being endangered in any way.

Conclusion

A warranty for the functionality of the tank can be undertaken only if the points raised in this instruction are adhered to without fail.