



Cavity tanks

Reliable

Reliable and accurate measurement, independent of the medium properties

Cost effective

Common sensor type for all applications reduces spare parts stocking

User friendly

Simple, easily accessible mounting from top

Level measurement in cavity service tanks on navy and research vessels

To extend the duration of stay at sea, every cubic centimetre of space on navy and research vessels is utilised. All available spaces and any inaccessible places on the ship are used as additional tanks for drinking water, diesel or aviation fuel. The tank shape and dimensions are completely different from familiar standard tanks. Depending on the type and size of the ship, they can also extend over several decks. A reliable level measurement is indispensable for the operation of these ships.

[More details](#)



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Radar sensor for level measurement in cavity tanks

- An existing monitoring well can be used for reliable non-contact measurement of the level
- Measurement is independent of internal fixtures and constrictions
- Accurate measurement, regardless of the medium

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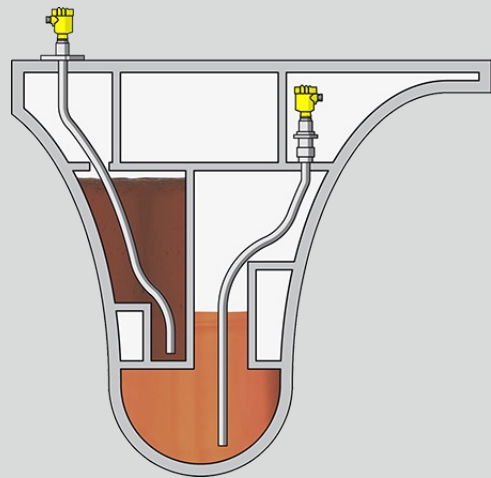


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Non-contact level measurement with radar in cavity tanks

- Sensor couples its signal directly into the sounding pipe
- Special fitting enables to perform manual sounding
- Costs for a second monitoring well are saved

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Measuring range - Distance
 35 m

Process temperature
 -196 ... 200 °C

Process pressure
 -1 ... 16 bar

Accuracy
 ± 2 mm

Frequency
 26 GHz

Beam angle
 ≥ 10°

Version
 hygienically encapsulated horn antenna

Materials, wetted parts
 PFA
 PTFE
 316L
 TFM-PCTFE
 TFM-PTFE

Flange connection
 ≥ DN50, ≥ 2"

Hygienic fittings
 Clamp ≥ 2", DN50 - DIN32676, ISO2852
 Slotted nut ≥ 2", DN50 - DIN 11851
 Varivent ≥ DN25
 hygienic fitting with tension flange DN32
 hygienic fitting F40 with compression nut
 Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A
 Hygienic flange connection ≥ DN50 DIN11864-2
 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
 DRD connection ø 65 mm
 SMS 1145 DN51

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Measuring range - Distance
 35 m

Process temperature
 -60 ... 400 °C

Process pressure
 -1 ... 160 bar

Accuracy
 ± 8 mm

Frequency
 6 GHz

Beam angle
 ≥ 14°

Version
 for separate horn antenna
 with horn antenna ø 48 mm
 with horn antenna ø 75 mm
 with horn antenna ø 95 mm
 with ø 52 mm standpipe
 for separate standpipe
 with horn antenna ø 140 mm enamelled
 with horn antenna ø 145 mm
 with horn antenna ø 160 mm enamelled
 with horn antenna ø 195 mm
 with horn antenna ø 240 mm

Materials, wetted parts
 316L
 Alloy C22 (2.4602)
 Enamel
 Alloy C276 (2.4819)
 316
 1.4435

Flange connection
 ≥ DN50, ≥ 2"

Seal material
 EPDM
 FKM
 FFKM
 graphit and ceramic
 PTFE
 Silicone FEP coated