



Reliable

Reliable and accurate measurement of the level

Cost effective

Maximising the loading capacity of the tanks

User friendly

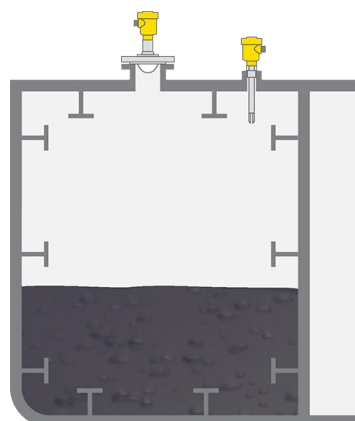
Standard sensors for all tanks allow simple planning

Crude oil storage tank

Level measurement and point level detection in FPSO crude oil tanks

Crude oil is pumped directly into the cargo tanks on board in order to separate gas, oil and water from each other using gravity. To ensure profitable utilisation of the loading capacities as well as effective control of the pumps, the level is measured continuously and the point levels are monitored.

[More details](#)



VEGAPULS 6X

Radar sensor for continuous level measurement in the FPSO crude oil tank

- Tight focusing of the radar beam thanks to 80 GHz technology, enables reliable measurement down to the tank bottom, even with narrow rib spacing
- High accuracy independent of oil consistency
- Simple installation due to small process fittings

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VEGASWING 63

Vibrating level switch as overflow protection in the crude oil tank

- Millimetre-exact detection of the switching point, independent of oil consistency
- Adjustment-free sensor allows simple installation
- Simple function test with optional test button on the sensor

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Measuring range - Distance 120 m	Process temperature -50 ... 250 °C
Process temperature -196 ... 450 °C	Process pressure -1 ... 64 bar
Process pressure -1 ... 160 bar	Version Standard Hygienic applications with gas-tight leadthrough with tube extension with temperature adapter
Accuracy ± 1 mm	Materials, wetted parts PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) ECTFE Enamel
Frequency 6 GHz 26 GHz 80 GHz	Threaded connection ≥ G¾, ≥ ¾ NPT
Beam angle ≥ 3°	Flange connection ≥ DN25, ≥ 1"
Materials, wetted parts PTFE PVDF 316L PP PEEK	Hygienic fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851 Varivent ≥ DN25 hygienic fitting F40 with compression nut SMS 1145 DN51 SMS DN38 Hygienic fittings ≥ DN25 - DIN11864-1-A Hygienic flange connection DIN11864-2-A; DN60(ISO)ø60,3 SMS socket piece DN38 PN6
Threaded connection ≥ G¾, ≥ ¾ NPT	Seal material no media contact
Flange connection ≥ DN20, ≥ ¾"	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
Hygienic fittings Clamp ≥ 1½" - 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	Protection rating IP66/IP67 IP66/IP68 (1 bar) IP65