

#### Reliable

Reliable and accurate measurement of the level

### Cost effective

Maximising the loading capacity of the tanks

#### **User friendly**

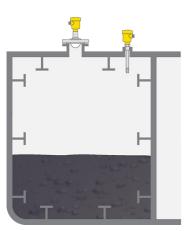
Standard sensors for all tanks allow simple planning



# 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

# **Show Product**

# **VEGASWING 63**

Vibrating level switch as overfill 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

### **Show Product**



VEGAPULS 6X Show Product	VEGASWING 63 Show Product
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
Accuracy ± 1 mm	with gas-tight leadthrough with tube extension with temperature adapter
Frequency 6 GHz 26 GHz 80 GHz	Materials, wetted parts PFA 316L
Beam angle ≥ 3°	Alloy C22 (2.4602) Alloy 400 (2.4360) ECTFE Enamel
Materials, wetted parts PTFE PVDF 316L	Threaded connection ≥ G <sup>3</sup> 4, ≥ <sup>3</sup> 4 NPT
PP PEEK	Flange connection ≥ DN25, ≥ 1"
Threaded connection ≥ G¾, ≥ ⅔ NPT	Hygenic fittings Clamp ≥ 1" - DIN32676, ISO2852
Flange connection ≥ DN20, ≥ ¾"	Slotted nut ≥ 1½", ≥ DN40 - DIN 11851   Varivent ≥ DN25   hygienic fitting F40 with compression nut
Hygenic fittings Clamp ≥ $1\frac{1}{2}$ " - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851 Varivent ≥ DN25 hygienic fitting with tension flange DN32 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
Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A	Seal material no media contact
Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864- 3-A DRD connection Ø 65 mm SMS 1145 DN51	Housing material Plastic Aluminium Stainless steel (precision casting)

IP66/IP67 IP66/IP68 (1 bar) IP65

