

#### Reliable

Reliable and accurate measurement of the level

### Cost effective

Maximising the loading capacity of the tanks

#### **User friendly**

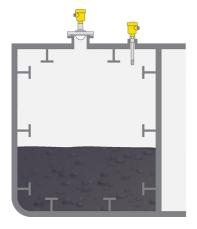
Standard sensors for all tanks allow simple planning

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

### **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**



Measuring range - Distance

120 m

Process temperature

-196 ... 450 °C

Process pressure

-1 ... 160 bar

Accuracy

± 1 mm

Frequency

6 GHz 26 GHz

80 GHz

Beam angle

≥ 3°

Materials, wetted parts

PTFE

PVDF

316L PP PEEK

Thursday a

Threaded connection

 $\geq$  G<sup>3</sup>/<sub>4</sub>,  $\geq$  <sup>3</sup>/<sub>4</sub> NPT

Flange connection

≥ DN20, ≥ ¾"

Hygenic fittings

Clamp  $\geq 1\frac{1}{2}$ " - DIN32676, ISO2852

Slotted nut ≥ 2", DN50 - DIN 11851

Varivent ≥ DN25

hygienic fitting with tension flange DN32

hygienic fitting F40 with compression nut

Hygienic screw connections ≥ DN50 tube ø53 -

DIN11864-1-A

Hygienice flange connection ≥ DN50 DIN11864-2

Hygienic clamp connection  $\geq$  DN50 pipe Ø53 - DIN11864-

3-A

DRD connection ø 65 mm

SMS 1145 DN51

**VEGASWING 63** 

**Show Product** 



Process temperature

-50 ... 250 °C

Process pressure

-1 ... 64 bar

Version

Standard

Hygienic applications

with gas-tight leadthrough

with tube extension

with temperature adapter

Materials, wetted parts

PFA

316L

Alloy C22 (2.4602)

Alloy 400 (2.4360)

ECTFE

Enamel

Threaded connection

≥ G¾, ≥ ¾ NPT

Flange connection

≥ DN25, ≥ 1"

Hygenic fittings

Clamp ≥ 1" - DIN32676, ISO2852

Slotted nut  $\geq 1\frac{1}{2}$ ",  $\geq$  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

Seal material

no media contact

Housing material

Plastic

Aluminium

Stainless steel (precision casting)

Stainless steel (electropolished)

Protection rating

IP66/IP67

IP66/IP68 (1 bar)

IP65

