



#### Reliable

Measurement results are unaffected by process conditions

#### Cost effective

Efficient operation and high oil quality

#### User friendly

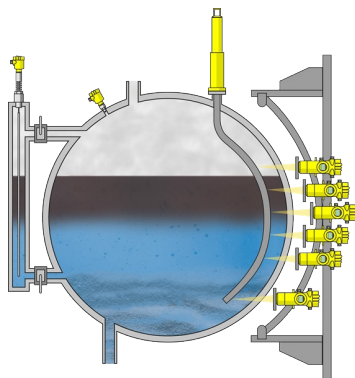
Maintenance-free operation

## Oil separators

### Level and pressure measurement in an oil separator

The separator vessel contains a mixture of crude oil, gas, water and sand extracted from the subsea well. Precise monitoring of these multiple separation interfaces and emulsions play a vital role in ensuring the quality of the oil separator for separation. Exact control of interfaces, level and pressure allows optimum utilization of the oil separator and increases the effectiveness of the entire asset.

[More details](#)



#### VEGAFLEX 86

Level measurement with guided radar in the oil separator

- Independent of medium density and therefore highly accurate
- Doubly secure thanks to the "Second Line of Defense"
- Shortenable rod probe allows high flexibility during planning

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#### VEGABAR 83

Pressure transmitter for monitoring pressure in the oil separator

- High plant availability due to high overload resistance
- High resistance of the measuring cell ensures a long service life
- Small process fitting reduces installation costs

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#### MINITRAC 31

Radiometric multi-phase interface measurement in the oil separator

- High process transparency through accurate detection of separation layers
- Ensures continuous operation of the facility through non-contact measuring method
- Measurement unaffected by pressure and temperature because sensor is installed outside of the tank

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PRO

**VEGAFLEX 86**  
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**Measuring range - Distance**  
 75 m

**Process temperature**  
 -196 ... 450 °C

**Process pressure**  
 -1 ... 400 bar

**Accuracy**  
 ± 2 mm

**Version**  
 Coax version ø 21.3 mm with multiple hole  
 Coax version ø 42.2 mm with single hole  
 Coax version ø 42.2 mm with multiple hole  
 Exchangeable rod ø 16 mm  
 Exchangeable cable ø 2 mm with gravity weight  
 Exchangeable cable ø 4 mm with gravity weight  
 Exchangeable cable ø 2 mm with centering weight  
 Exchangeable cable ø 4 mm with centering weight

**Materials, wetted parts**  
 316L  
 Alloy C22 (2.4602)  
 316

**Threaded connection**  
 ≥ G¾, ≥ ¼ NPT

**Flange connection**  
 ≥ DN25, ≥ 1"

**Seal material**  
 FFKM  
 graphit and ceramic

**Housing material**  
 Plastic  
 Aluminium  
 Stainless steel (precision casting)  
 Stainless steel (electropolished)

PRO

**VEGABAR 83**  
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**Measuring range - Distance**  
 -

**Measuring range - Pressure**  
 -1 ... 1000 bar

**Process temperature**  
 -40 ... 200 °C

**Process pressure**  
 -1 ... 1000 bar

**Accuracy**  
 0.075 %

**Materials, wetted parts**  
 316L  
 Alloy C22 (2.4602)  
 316Ti (1.4571)  
 Alloy C4 (2.4610)

**Threaded connection**  
 ≥ G½, ≥ ½ NPT

**Flange connection**  
 ≥ DN25, ≥ 1"

**Hygienic fittings**  
 Slotted nut ≥ DN25 - DIN 11851  
 Varivent ≥ DN25  
 hygienic fitting with tension flange DN32  
 Hygienice flange connection ≥ DN50 DIN11864-2  
 SMS 1145 DN51  
 SMS DN38  
 Hygienic fittings ≥ DN33 - DIN11864-1-A  
 Hyg. collar clamp adapter DN40PN40 DIN11864-3-A  
 Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53  
 Swagelok VCR screwing  
 Varivent G125

**Seal material**  
 no media contact

PRO

**MINITRAC 31**  
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**Measuring range - Distance**  
 -

**Process temperature**  
 -40 ... 60 °C

**Process pressure**  
 -

**Accuracy**  
 0.1 %

**Materials, wetted parts**  
 No wetted material

**Seal material**  
 no media contact

**Housing material**  
 Aluminium  
 Stainless steel (precision casting)

**Protection rating**  
 IP66/IP67

**Output**  
 Profibus PA  
 Foundation Fieldbus  
 4 ... 20 mA/HART - four-wire

**Ambient temperature**  
 -40 ... 60 °C

**VEGA**