



## Oil separators

### Reliable

Measurement results are unaffected by process conditions

### Cost effective

Efficient operation and high oil quality

### User friendly

Maintenance-free operation

### 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.



#### 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



#### VEGABAR 83

Pressure transmitter for monitoring pressure in the oil separator

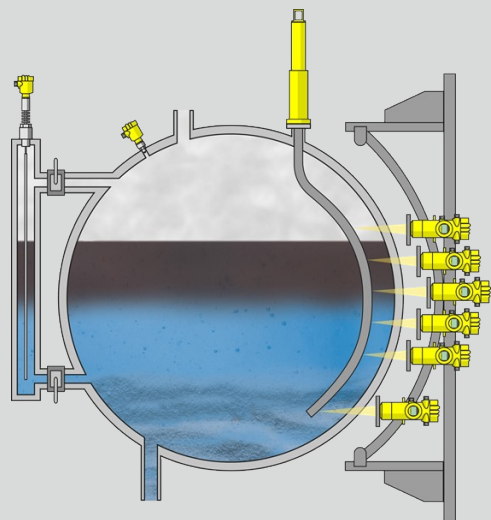
- High plant availability due to high overload resistance
- High resistance of the measuring cell ensures a long service life
- Small process fitting reduces installation costs



#### 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





| VEGAFLEX 86  | VEGABAR 83  | MINITRAC 31  |
|--|---|--|
| Measuring range - Distance<br>75 m   | Measuring range - Distance<br>-   | Measuring range - Distance<br>-  |
| Process temperature<br>-196 ... 450 °C   | Measuring range - Pressure<br>-1 ... 1000 bar   | Process temperature<br>-40 ... 60 °C   |
| Process pressure<br>-1 ... 400 bar   | Process temperature<br>-40 ... 200 °C   | Process pressure<br>-  |
| Accuracy<br>± 2 mm   | Process pressure<br>-1 ... 1000 bar   | Accuracy<br>0.1 %  |
| Version<br>Coax version ø 21.3 mm with multiple hole<br>Coax version ø 42.2 mm with single hole<br>Coax version ø 42.2 mm with multiple hole<br>Exchangeable rod ø 16 mm<br>Exchangeable cable ø 2 mm with gravity weight<br>Exchangeable cable ø 4 mm with gravity weight<br>Exchangeable cable ø 2 mm with centering weight<br>Exchangeable cable ø 4 mm with centering weight | Accuracy<br>0.075 %   | Materials, wetted parts<br>No wetted material                                |
| Materials, wetted parts<br>316L<br>Alloy C22 (2.4602)<br>316   | Materials, wetted parts<br>316L<br>Alloy C22 (2.4602)<br>316Ti (1.4571)<br>Alloy C4 (2.4610)  | Seal material<br>no media contact  |
| Threaded connection<br>≥ G¾, ≥ ¾ NPT   | Threaded connection<br>≥ G½, ≥ ½ NPT  | Housing material<br>Aluminium<br>Stainless steel (precision casting)         |
| Flange connection<br>≥ DN25, ≥ 1"  | Flange connection<br>≥ DN25, ≥ 1"   | Protection rating<br>IP 66/IP 67   |
| Seal material<br>FFKM<br>graphit and ceramic   | Hygienic fittings<br>Clamp ≥ 1" - DIN32676, ISO2852<br>Slotted nut ≥ DN25 - DIN 11851<br>Varivent ≥ DN25<br>hygienic fitting with tension flange DN32<br>Hygienic flange connection ≥ DN50 DIN11864-2<br>SMS 1145 DN51<br>SMS DN38<br>Hygienic fittings ≥ DN33 - DIN11864-1-A<br>Hyg. collar clamp adapter DN40PN40 DIN11864-3-A<br>Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53<br>Swagelok VCR screwing<br>Varivent G125 | Output<br>Profibus PA<br>Foundation Fieldbus<br>4 ... 20 mA/HART - four-wire |
| Housing material<br>Plastic<br>Aluminium<br>Stainless steel (precision casting)<br>Stainless steel (electropolished)   | Seal material<br>EPDM<br>FKM<br>FFKM<br>FEPM  | Ambient temperature<br>-40 ... 60 °C   |