



### Reliable

Precise measurement regardless of the medium

### Cost effective

Multi-sensor flange reduces costs in planning and commissioning

### User friendly

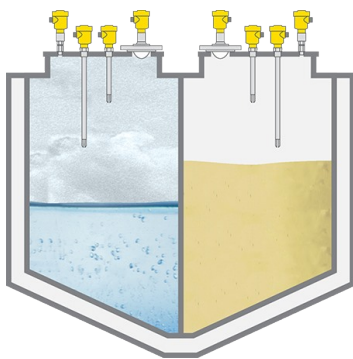
Simple installation of the radar, pressure and high level alarm sensors in one multi-sensor flange

## Cargo tank

### Measurement of level, point level and pressure in the cargo tanks on board

The levels in storage tanks, especially those on board chemical tankers must be continuously measured. This is especially important to monitor during loading and unloading operations, because of strict safety and environmental requirements. Any overfilling or product discharge on deck or into the sea could have devastating consequences for human life as well as the wider environment. Also, to prevent damage to the tanks caused via external temperature fluctuations, or overpressure and underpressure created by charging and discharging procedures, the internal tank pressures require continuous monitoring.

#### More details



### VEGAPULS 6X

Radar sensor for continuous level measurement in cargo tanks

- Independent of medium properties, temperature, pressure or gas overlay
- PTFE-protected, front-flush antenna: optimal chemical resistance even in aggressive media
- Measurement all the way to the tank bottom, also in media with low dielectric constant
- Strong focusing of the radar beam allows accurate measurement even in tanks with heating coils

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### VEGABAR 82

Pressure transmitter for monitoring gas pressure in the cargo tank

- Precise measurement of the internal tank pressure by capacitive CERTEC® ceramic measuring cell
- Capacitive ceramic CERTEC® measuring cell offers excellent chemical resistance even in aggressive media

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### VEGASWING 63


Vibrating level switch for high alarm (95 %) and high-high alarm (98 %)

- Robust sensor in alloy or stainless steel, resistant to aggressive media
- Test key on instrument allows fast and secure verification of function
- Exact switch point even with changing media optimises tank capacity

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| PRO  |
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| <b>VEGAPULS 6X</b><br><a href="#">Show Product</a>   |
|   |
| <b>Measuring range - Distance</b><br>120 m   |
| <b>Process temperature</b><br>-196 ... 450 °C  |
| <b>Process pressure</b><br>-1 ... 160 bar  |
| <b>Accuracy</b><br>± 1 mm  |
| <b>Frequency</b><br>6 GHz<br>26 GHz<br>80 GHz  |
| <b>Beam angle</b><br>≥ 3°  |
| <b>Materials, wetted parts</b><br>PTFE<br>PVDF<br>316L<br>PP<br>PEEK   |
| <b>Threaded connection</b><br>≥ G¾, ≥ ¾ NPT  |
| <b>Flange connection</b><br>≥ DN20, ≥ ¾"   |
| <b>Hygienic fittings</b><br>Clamp ≥ 1½" - DIN32676, ISO2852<br>Slotted nut ≥ 2", DN50 - DIN 11851<br>Varivent ≥ DN25<br>hygienic fitting with tension flange DN32<br>hygienic fitting F40 with compression nut<br>Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A<br>Hygienic flange connection ≥ DN50 DIN11864-2<br>Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A<br>DRD connection ø 65 mm<br>SMS 1145 DN51 |

| PRO  |
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| <b>VEGABAR 82</b><br><a href="#">Show Product</a>  |
|   |
| <b>Measuring range - Distance</b><br>-   |
| <b>Measuring range - Pressure</b><br>-1 ... 100 bar  |
| <b>Process temperature</b><br>-40 ... 150 °C   |
| <b>Process pressure</b><br>-1 ... 100 bar  |
| <b>Accuracy</b><br>0.05 %  |
| <b>Materials, wetted parts</b><br>PVDF<br>316L<br>Alloy C22 (2.4602)<br>PP<br>1.4057<br>1.4410<br>Alloy C276 (2.4819)<br>Duplex (1.4462)<br>Titanium Grade 2 (3.7035)  |
| <b>Threaded connection</b><br>≥ G½, ≥ ½ NPT  |
| <b>Flange connection</b><br>≥ DN15, ≥ ½"   |
| <b>Hygienic fittings</b><br>Clamp ≥ 1" - DIN32676, ISO2852<br>Slotted nut ≥ DN25 - DIN 11851<br>hygienic fitting with tension flange DN32<br>hygienic fitting F40 with compression nut<br>DRD connection ø 65 mm<br>SMS 1145 DN51<br>SMS DN38<br>Swagelok VCR screwing<br>Varivent G125<br>Varivent N50-40<br>for NEUMO BioControl D50 PN16 / 316L |
| <b>Seal material</b><br>EPDM<br>FKM<br>FFKM  |

| PRO  |
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| <b>VEGASWING 63</b><br><a href="#">Show Product</a>  |
|   |
| <b>Process temperature</b><br>-50 ... 250 °C   |
| <b>Process pressure</b><br>-1 ... 64 bar   |
| <b>Version</b><br>Standard<br>Hygienic applications<br>with gas-tight leadthrough<br>with tube extension<br>with temperature adapter   |
| <b>Materials, wetted parts</b><br>PFA<br>316L<br>Alloy C22 (2.4602)<br>Alloy 400 (2.4360)<br>ECTFE<br>Enamel   |
| <b>Threaded connection</b><br>≥ G¾, ≥ ¾ NPT  |
| <b>Flange connection</b><br>≥ DN25, ≥ 1"   |
| <b>Hygienic fittings</b><br>Clamp ≥ 1" - DIN32676, ISO2852<br>Slotted nut ≥ 1½", ≥ DN40 - DIN 11851<br>Varivent ≥ DN25<br>hygienic fitting F40 with compression nut<br>SMS 1145 DN51<br>SMS DN38<br>Hygienic fittings ≥ DN25 - DIN11864-1-A<br>Hygienic flange connection DIN11864-2-A;<br>DN60(ISO)ø60,3<br>SMS socket piece DN38 PN6 |
| <b>Seal material</b><br>no media contact   |
| <b>Housing material</b><br>Plastic<br>Aluminium<br>Stainless steel (precision casting)<br>Stainless steel (electropolished)  |
| <b>Protection rating</b><br>IP66/IP67<br>IP66/IP68 (1 bar)<br>IP65   |