



**Reliable**

Reliable long term performance and operation of the process vessels through reliable level measurement

**Cost effective**

High-resistance materials for long term measurement in all media

**User friendly**

No adjustment required for changing media

## Process vessels in the ethanol plant

### Process vessel level and pressure measurement and point level detection

To ensure the best possible fermentation of the ingredients, optimal process conditions must prevail, control of pH value and temperature of the medium play important roles. The pH is adjusted by adding acids or alkalis, and sodium hydroxide is used to clean the vessel under absolute sanitary conditions. The levels of the process vessels have to be monitored at all times, to ensure continuous operation of the system. The measured media place very high demands on the chemical resistance of the sensors. To be totally reliable, the instruments need to be equally resistant to both acids and alkalis.

[More details](#)



#### VEGAPULS 6X

Level measurement with radar in the process vessel

- Easy mounting and setup thanks to installation from above
- High chemical resistance via plastic-encapsulated antenna system
- Reliable measurement and maintenance-free operation

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#### VEGABAR 82

Hydrostatic pressure measurement in the outlet pipeline of the process vessel

- Ceramic measuring cell for high chemical resistance
- High long-term stability, maintenance-free operation
- Easy cleaning front-flush measuring cell

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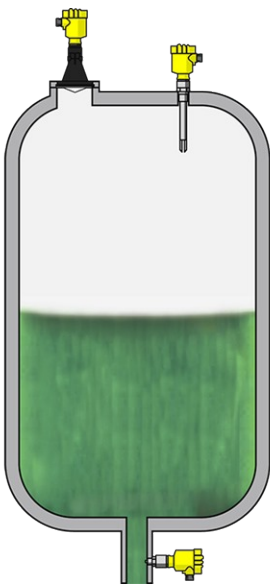



#### VEGASWING 63


Point level detection with vibrating level switch as overflow protection in the process vessel


- Universal point level detection, independent of the medium
- Long-term, reliable operation due to high resistance coating
- Adjustment free and easy to install

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PRO
<b>VEGAPULS 6X</b> <a href="#">Show Product</a>

<b>Measuring range - Distance</b> 120 m
<b>Process temperature</b> -196 ... 450 °C
<b>Process pressure</b> -1 ... 160 bar
<b>Accuracy</b> ± 1 mm
<b>Frequency</b> 6 GHz 26 GHz 80 GHz
<b>Beam angle</b> ≥ 3°
<b>Materials, wetted parts</b> PTFE PVDF 316L PP PEEK
<b>Threaded connection</b> ≥ G¾, ≥ ¾ NPT
<b>Flange connection</b> ≥ DN20, ≥ ¾"
<b>Hygienic fittings</b> Clamp ≥ 1½" - 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 Hygienic flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A DRD connection ø 65 mm SMS 1145 DN51

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

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<b>VEGASWING 63</b> <a href="#">Show Product</a>

<b>Process temperature</b> -50 ... 250 °C
<b>Process pressure</b> -1 ... 64 bar
<b>Version</b> Standard Hygienic applications with gas-tight leadthrough with tube extension with temperature adapter
<b>Materials, wetted parts</b> PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) ECTFE Enamel
<b>Threaded connection</b> ≥ G¾, ≥ ¾ NPT
<b>Flange connection</b> ≥ DN25, ≥ 1"
<b>Hygienic fittings</b> Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ 1½", ≥ 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
<b>Seal material</b> no media contact
<b>Housing material</b> Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
<b>Protection rating</b> IP66/IP67 IP66/IP68 (1 bar) IP65