

#### 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 ingeredients, 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

#### **Show Product**



#### **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

#### **Show Product**



#### **VEGASWING 63**

Point level detection with vibrating level switch as overfill 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

### **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

Threaded connection

≥ G¾, ≥ ¾ NPT

Flange connection

≥ DN20, ≥ ¾"

Hygenic fittings

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

Hygienice flange connection ≥ DN50 DIN11864-2

Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-

3-A

DRD connection ø 65 mm

SMS 1145 DN51

VEGABAR 82

**Show Product** 



Measuring range - Distance

-

Measuring range - Pressure

-1 ... 100 bar

Process temperature

-40 ... 150 °C

Process pressure

-1 ... 100 bar

Accuracy

0.05 %

Materials, wetted parts

PVDF

316L

Alloy C22 (2.4602)

PP

1.4057

1.4410

Alloy C276 (2.4819)

Duplex (1.4462)

Titanium Grade 2 (3.7035)

Threaded connection

≥ G½, ≥ ½ NPT

Flange connection

≥ DN15, ≥ ½"

Hygenic fittings

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

Seal material

EPDM

FKM FFKM 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

≥ G3/4, ≥ 3/4 NPT

Flange connection

≥ DN25, ≥ 1"

Hygenic fittings

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

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

