

#### Reliable

Reliable operation despite extreme process conditions

#### Cost effective

Measuring system can be installed without invasive work on the vessel wall and insulation

#### **User friendly**

Simple retro installation



# Digester

# Level detection and pressure measurement in the digester

In the digester, the action of chemical dissolution removes the lignin binder, thereby exposing and freeing the cellulose fibres. During the cooking process according to the alkaline sulphate method, the fibres are fed into the digester by means of steam pressure. To enable fully automatic operation of the digester, a point level detection of the filling is required. The vessel pressure also needs to be carefully monitored throughout this process.

#### More details



### **POINTRAC 31**

Radiation-based detection of maximum level for controlling the filling process

- Enables automated operation of the digester
- Non-contact measurement right through the vessel wall
- Maintenance-free operation

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#### **VEGABAR 81**

Pressure transmitter for pressure measurement in the digester

- Pressure measurement in aggressive media and high temperatures
- Long-term chemical resistance
- Resistant to pressure surges during emptying

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#### **VEGASOURCE 31**

The source holder serves as a housing for the radiation capsule and protects it from external influences

- Minimal space requirements and simple mounting
- Safety and reliability ensured through pneumatic operation of the source shutter
- High integrity shielding allows use without a restricted access area

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**POINTRAC 31** 

Measuring range - Distance

-

Process temperature

-40 ... 60 °C

Process pressure

-

Materials, wetted parts

No wetted material

Seal material

no media contact

Housing material

Stainless steel (precision casting)

**Protection rating** 

IP66/IP67

Output

Profibus PA Foundation Fieldbus

8/16 mA/HART - four-wire

Ambient temperature

-40 ... 60 °C

# **VEGABAR 81**

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Measuring range - Distance

-

Measuring range - Pressure

-1 ... 1000 bar

Process temperature

-90 ... 400 °C

Process pressure

-1 ... 1000 bar

Accuracy

0.2 % 0.1 %

Materials, wetted parts

Alloy C22 (2.4602)

Alloy 400 (2.4360)

Tantalum

Alloy C276 (2.4819)

Duplex (1.4462)

Titanium Grade 2 (3.7035)

1.4435

316/316L

Titanium Grade 7 (3.7235)

Threaded connection

≥ G½, ≥ ½ NPT

Flange connection

≥ DN25, ≥ 1"

Hygenic fittings

Clamp ≥ 1" - DIN32676, ISO2852

Slotted nut  $\geq 1\frac{1}{2}$ ",  $\geq$  DN40 - DIN 11851

hygienic fitting with tension flange  $\ensuremath{\mathsf{DN32}}$ 

hygienic fitting F40 with compression nut

Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic fittings ≥ DN40 - DIN11864-1-A

Seal material

no media contact

# **VEGASOURCE 31**

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Ambient temperature

-20 ... 80 °C

