



#### 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

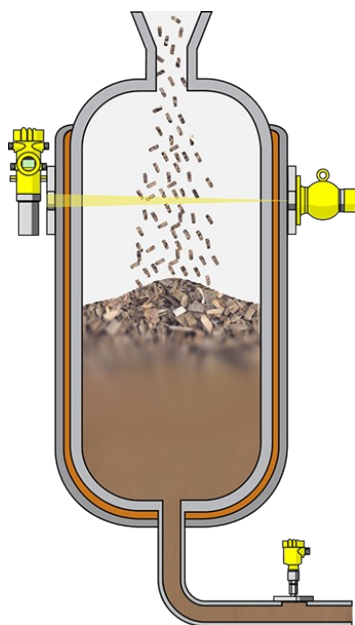
Simple retro installation

## 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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PRO

**POINTRAC 31**  
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**Measuring range - Distance**

-

**Process temperature**

-40 ... 60 °C

**Process pressure**

-

**Materials, wetted parts**

No wetted material

**Seal material**

no media contact

**Housing material**

Aluminium  
Stainless steel (precision casting)

**Protection rating**

IP66/IP67

**Output**

Profibus PA  
Foundation Fieldbus  
8/16 mA/HART - four-wire

**Ambient temperature**

-40 ... 60 °C

PRO

**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"

**Hygienic fittings**

Clamp ≥ 1" - DIN32676, ISO2852  
Slotted nut ≥ 1½", ≥ DN40 - DIN 11851  
hygienic fitting with tension flange DN32  
hygienic fitting F40 with compression nut  
Hygienic 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