



### Reliable

Reliable level measurement across all pressure and temperature ranges

### Cost effective

Standardized operation in all the measuring principles

### User friendly

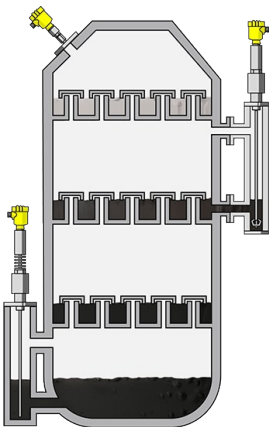
Robust and maintenance-free sensors reduce maintenance overhead

## Distillation column

### Level and pressure measurement in the distillation of primary products

The process temperatures in a distillation column place high demands on the measurement technologies deployed. The boiling point of the distillate frequently exceeds 400 °C. The aim is to achieve the highest possible product throughput for cost-effective operation of the plant. This means the raw material replenishments need to be optimally controlled by level and process pressure measurement in the column.

[More details](#)



### VEGABAR 81

Measurement of head pressure with pressure transmitter in the distillation column

- Reliable head pressure measurement, even with vacuum or overpressure
- Measurement result unaffected by temperature variations during the start up and shutdown of the column
- Durable pressure transmitter can withstand temperatures of up to 400 °C

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### VEGAFLEX 86

Level measurement of the extraction trays of the distillation column with guided radar

- Maintenance-free measuring principle reduces maintenance costs to a minimum
- Delivered as a complete solution with bypass VEGAPASS 81
- Particularly high system reliability through extensive diagnostic functions and SIL qualification according to IEC 61508 (SIL2)

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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

PRO

**VEGAFLEX 86**  
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**Measuring range - Distance**

75 m

**Process temperature**

-196 ... 450 °C

**Process pressure**

-1 ... 400 bar

**Accuracy**

± 2 mm

**Version**

Coax version ø 21.3 mm with multiple hole

Coax version ø 42.2 mm with single hole

Coax version ø 42.2 mm with multiple hole

Exchangeable rod ø 16 mm

Exchangeable cable ø 2 mm with gravity weight

Exchangeable cable ø 4 mm with gravity weight

Exchangeable cable ø 2 mm with centering weight

Exchangeable cable ø 4 mm with centering weight

**Materials, wetted parts**

316L

Alloy C22 (2.4602)

316

**Threaded connection**

≥ G¾, ≥ ¾ NPT

**Flange connection**

≥ DN25, ≥ 1"

**Seal material**

FFKM

graphit and ceramic

**Housing material**

Plastic

Aluminium

Stainless steel (precision casting)

Stainless steel (electropolished)