



Reliable

Precise measurement results even in extreme environments

Cost effective

Easy mounting reduces installation and maintenance costs

User friendly

Simple calibration even during running process

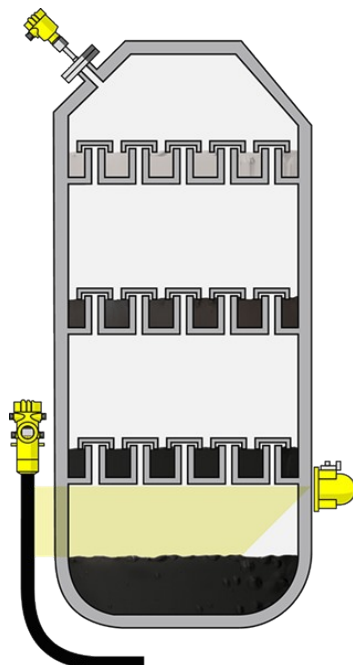
Distillation column

Level and pressure measurement in the distillation unit

The heavy, highly viscous process material and extreme temperature are located in the bottom part of the distillation. For level control of residual feeds, a non-contact measurement is essential for reliability.

Monitoring head space pressure at the upper end of refinery columns is important to ensure that the process is operating under ideal conditions.

[More details](#)



FIBERTRAC 31

Radiation-based sensor for continuous level measurement

- Non-contact measurement principle allows safe and reliable level measurement
- Lightweight design reduces mounting hardware and structural requirements
- Easy proof test verifies operation without costly process downtime

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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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Measuring range - Distance
 7 m

Process temperature
 -

Process pressure
 -

Accuracy
 $\pm 0.5 \%$
Density
 Density

Materials, wetted parts
 No wetted material

Threaded connection
 Mounting from outside via supplied mounting brackets

Seal material
 no media contact

Housing material
 Aluminium
 Stainless steel (precision casting)

Protection rating
 IP66/IP67

Measuring range - Distance
 -

Measuring range - Pressure
 -1 ... 1000 bar

Process temperature
 -90 ... 400 °C

Process pressure
 -1 ... 1000 bar

Accuracy
 0.2 %

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
 $\geq G\frac{1}{2}$, $\geq \frac{1}{2}$ NPT

Flange connection
 $\geq DN25$, $\geq 1"$
Hygienic fittings
 Clamp $\geq 1"$ - DIN32676, ISO2852
 Slotted nut $\geq 1\frac{1}{2}"$, $\geq DN40$ - DIN 11851
 hygienic fitting with tension flange DN32
 hygienic fitting F40 with compression nut
 Hygienic flange connection $\geq DN50$ DIN11864-2
 Hygienic fittings $\geq DN40$ - DIN11864-1-A

Seal material
 no media contact