



Distillation column

Reliable

Precise measurement results even in extreme environments

Cost effective

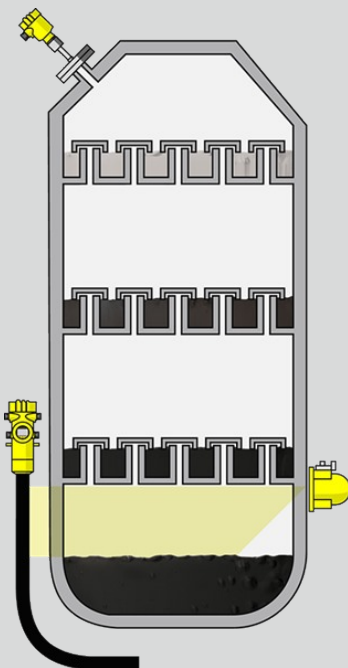
Easy mounting reduces installation and maintenance costs

User friendly

Simple calibration even during running process

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.



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



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



FIBERTRAC 31	VEGABAR 81
Measuring-range---Distance 7 m	Measuring-range---Distance -
Process-temperature -20 ... 50 °C	Measuring-range---Pressure -1 ... 1000 bar
Process-pressure -	Process-temperature -90 ... 400 °C
Accuracy ± 0.5 %	Process-pressure -1 ... 1000 bar
Density Density	Accuracy 0.2 %
Materials,-wetted-parts No wetted material	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 Mounting from outside via supplied mounting brackets	Threaded-connection ≥ G½, ≥ ½ NPT
Seal-material no media contact	Flange-connection ≥ DN25, ≥ 1"
Housing-material Aluminium Stainless steel (precision casting)	Hygienic-fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic fittings ≥ DN40 - DIN11864-1-A
Protection-rating IP 66/IP 67	Seal-material no media contact