



Distillation column

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

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.



VEGABAR 81

Measurement of head pressure with pressure transmitter in the distillation column

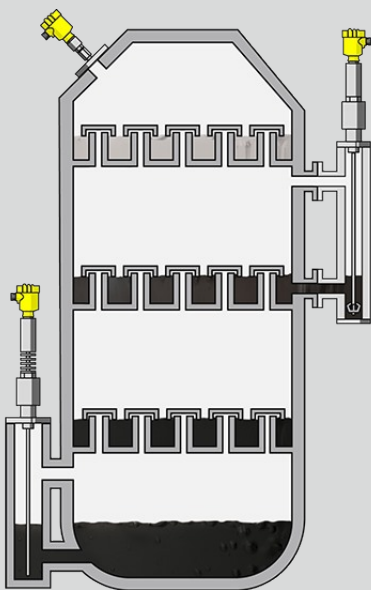
- Reliable head pressure measurement, even with vacuum or overpressure
- Measurement result unaffected by temperature variations during the start up and shutdown of the column
- Durable pressure transmitter can withstand temperatures of up to 400 °C



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)





| VEGABAR 81 | VEGAFLEX 86 |
|---|--|
| Measuring range - Distance - | Measuring range - Distance 75 m |
| Measuring range - Pressure -1 ... 1000 bar | Process temperature -196 ... 450 °C |
| Process temperature -90 ... 400 °C | Process pressure -1 ... 400 bar |
| Process pressure -1 ... 1000 bar | Accuracy ± 2 mm |
| Accuracy 0.2 % | 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 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) | Materials, wetted parts 316L Alloy C22 (2.4602) 316 |
| Threaded connection ≥ G½, ≥ ½ NPT | Threaded connection ≥ G¾, ≥ ¾ NPT |
| Flange connection ≥ DN25, ≥ 1" | 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 FFKM graphit and ceramic |
| Seal material no media contact | Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished) |