

Separation vessel

Reliable

Reliable measurement of the interface
(separation layer)

Cost effective

Maintenance-free operation

User friendly

Easy setup and commissioning

Level measurement and point level detection in a separator vessel tank for recovery of raw materials

These processes often involve the separation of water-based media from hydrocarbons. In most applications, the upper, lighter medium is electrically non-conductive. Guided radar level measurement makes use of the effect that non-conductive media allow some of the radar energy to pass through, thus enabling a measurement of the interface between the water-based lower medium and the hydrocarbons.



VEGAFLEX 81

Level and interface measurement with guided radar in the separation tank

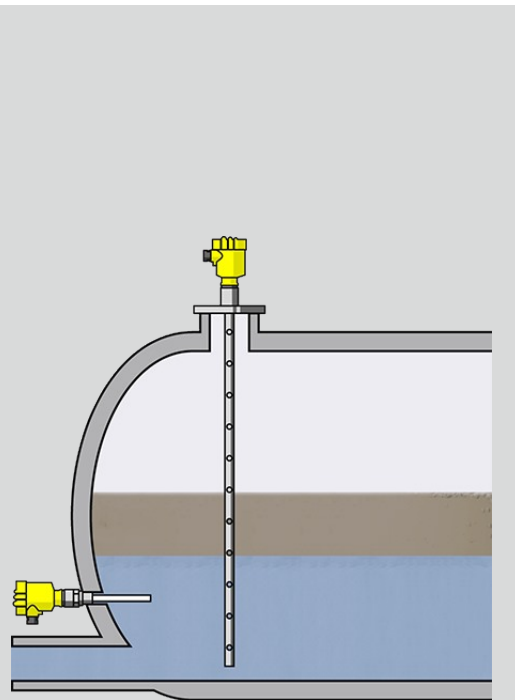
- Total level and position of the interface are reliably detected with a rod or coaxial sensor
- Separation layer thicknesses from 50 mm can be measured
- VEGAFLEX 81 measures reliably and accurately, even in emulsion phases
- Simple setup and maintenance-free operation



VEGACAP 63

Capacitive level switch for conductive liquids for level measurement in the separation tank

- Reliable differentiation between conductive and non-conductive media
- Reliable level measurement of the separated water quantity for disposal
- Simple mounting and calibration





VEGAFLEX 81	VEGACAP 63
Measuring-range---Distance 75 m	Measuring-range---Distance 6 m
Process-temperature -60 ... 200 °C	Process-temperature -50 ... 200 °C
Process-pressure -1 ... 40 bar	Process-pressure -1 ... 64 bar
Accuracy ± 2 mm	Version PE insulation PE insulation and concentric tube PTFE insulation PTFE insulation with screening tube PN1 PTFE insulation with screening tube PN16 PTFE insulation with screening tube PN40 PTFE insulation and concentric tube
Version Basic version for exchangeable cable ø 2; ø 4 mm Basic version for exchangeable rod ø 8 mm Basic version for exchangeable rod ø 12 mm Coax version ø 21.3 mm for ammonia application Coax version ø 21.3 mm with single hole Coax version ø 21.3 mm with multiple hole Coax version ø 42.2 mm with multiple hole Exchangeable rod ø 8 mm Exchangeable rod ø 12 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 Exchangeable cable ø 4 mm without weight exchangeable, PFA-coated cable ø4 mm with non-coated centering weight	Materials,-wetted-parts PTFE 316L Alloy C22 (2.4602) Alloy 400 (2.4360) PE Steel C22.8
Materials,-wetted-parts PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) Alloy C276 (2.4819) Duplex (1.4462) 304L	Threaded-connection ≥ G½, ≥ ½ NPT
Threaded-connection ≥ G¾, ≥ ¾ NPT	Flange-connection ≥ DN25, ≥ 1"
Flange-connection ≥ DN25, ≥ 1"	Seal-material no media contact
Seal-material EPDM FKM FFKM Silicone FEP coated Borosilicate glass	Housing-material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
Housing-material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Protection-rating IP 66/IP 68 (0.2 bar) IP 66/IP 67 IP 66/IP 68 (1 bar)