



Propane bullets

Reliable

Redundant measurement increases plant availability and plant safety

Cost effective

Maintenance-free operation

User friendly

Easy installation and setup

Level measurement in propane bullets

Propane, a flammable, colourless and odourless gas, is one of the many types of liquefied petroleum gases (LPG) that exist. It is produced from natural gas via a special refining process. Propane is compressed, liquefied and stored in pressure vessels so that it does not return to a gaseous state. To ensure optimal storage, reliable level measurement is required.

VEGAFLEX 81 and magnetic level indicator

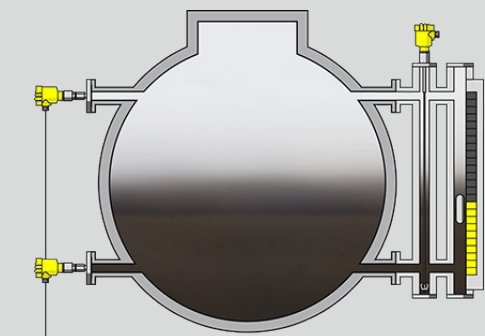
Guided wave radar and magnetic level indicator for reliable level measurement

- Redundant measurement through the combination of guided radar sensor and magnetic level indicator
- Measurement is unaffected by low dielectric constant
- Equipment can be isolated from vessel for service without affecting the process

VEGABAR 82

Electronic differential pressure transmitter for redundant measurement

- Ceramic cell assemblies are overload resistant
- Very good repeatability and long-term stability
- Independent of ambient temperature because no capillary tubes required





VEGAFLEX 81 and magnetic level indicator	VEGABAR 82
Measuring-range---Distance 75 m	Measuring-range---Distance -
Process-temperature -60 ... 200 °C	Measuring-range---Pressure -1 ... 100 bar
Process-pressure -1 ... 40 bar	Process-temperature -40 ... 150 °C
Accuracy ± 2 mm	Process-pressure -1 ... 100 bar
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	Accuracy 0.05 %
Materials,-wetted-parts PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) Alloy C276 (2.4819) Duplex (1.4462) 304L	Materials,-wetted-parts PVDF 316L Alloy C22 (2.4602) PP 1.4057 1.4410 Alloy C276 (2.4819) Duplex (1.4462) Titanium Grade 2 (3.7035)
Threaded-connection ≥ G¾, ≥ ¾ NPT	Threaded-connection ≥ G½, ≥ ½ NPT
Flange-connection ≥ DN25, ≥ 1"	Flange-connection ≥ DN15, ≥ ½"
Seal-material EPDM FKM FFKM Silicone FEP coated Borosilicate glass	Hygienic-fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ DN25 - DIN 11851 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut DRD connection ø 65 mm SMS 1145 DN51 SMS DN38 Swagelok VCR screwing Varivent G125 Varivent N50-40 for NEUMO BioControl D50 PN16 / 316L
Housing-material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Seal-material EPDM FKM FFKM