



Reliable

Reliable and safe measurement in all media

Cost effective

Full utilization of the tank volume

User friendly

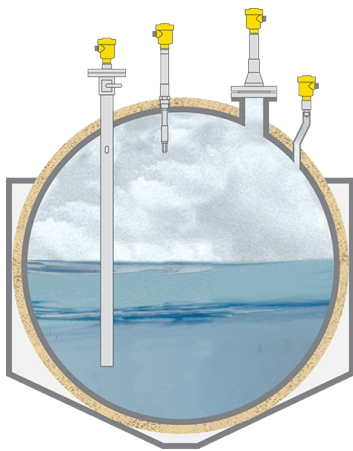
Simple planning and commissioning

Cargo tanks on LNG carriers

Pressure, level and point level detection in Liquefied Natural Gas (LNG) applications

Liquefied gas is transported in insulated cargo tanks on LNG carriers at temperatures of $-162\text{ }^{\circ}\text{C}$. The instrumentation used must be specially designed for these extreme temperatures. Pressure, level and point level of LNG in the cargo tanks must be reliably measured for the transport.

[More details](#)



VEGAPULS 6X

Radar sensor for non-contact level measurement in LNG tanks

- Front-flush PTFE antenna means no additional sealing material is required
- Reliable measurement even at very low temperatures down to $-200\text{ }^{\circ}\text{C}$
- Exact measurement data despite low relative permittivity of the liquefied gas

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VEGABAR 82

Pressure transmitter for monitoring the pressure in the liquid gas tank

- High plant availability through maximum overload resistance of the ceramic measuring cell
- A special seal material and the dry measuring cell enable measurement at temperatures down to $-50\text{ }^{\circ}\text{C}$

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VEGASWING 66


Vibrating level switch for point level detection in liquid gas tank

- Sensor for applications down to a temperature of $-196\text{ }^{\circ}\text{C}$
- Switching point independent of changing media
- Reliable even with adhesive buildup

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PRO	
VEGAPULS 6X Show Product	
	
Measuring range - Distance 120 m	
Process temperature -196 ... 450 °C	
Process pressure -1 ... 160 bar	
Accuracy ± 1 mm	
Frequency 6 GHz 26 GHz 80 GHz	
Beam angle ≥ 3°	
Materials, wetted parts PTFE PVDF 316L PP PEEK	
Threaded connection ≥ G¾, ≥ ¾ NPT	
Flange connection ≥ DN20, ≥ ¾"	
Hygienic fittings Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851 Varivent ≥ DN25 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A Hygienic flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A DRD connection ø 65 mm SMS 1145 DN51	

PRO	
VEGABAR 82 Show Product	
	
Measuring range - Distance -	
Measuring range - Pressure -1 ... 100 bar	
Process temperature -40 ... 150 °C	
Process pressure -1 ... 100 bar	
Accuracy 0.05 %	
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	
Flange connection ≥ DN15, ≥ ½"	
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	
Seal material EPDM FKM FFKM	

PRO	
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Process temperature -196 ... 450 °C	
Process pressure -1 ... 160 bar	
Version Compact version with gas-tight leadthrough with tube extension	
Materials, wetted parts 316L Alloy C22 (2.4602) Inconel 718	
Threaded connection G1, 1 NPT, R1	
Flange connection ≥ DN50, ≥ 2"	
Seal material no media contact	
Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	
Protection rating IP66/IP67 IP66/IP68 (1 bar) IP65	
Output Relay (DPDT) Transistor (NPN/PNP) Two-wire	