

#### Reliable

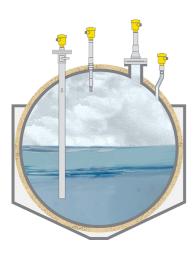
Reliable and safe measurement in all media

#### 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 °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 °C
- Exact measurement data despite low relative permittivity of the liquefied gas

# **Show Product**

# **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 °C

#### **Show Product**

## **VEGASWING 66**

Vibrating level switch for point level detection in liquid gas tank

- Sensor for applications down to a temperature of -196 °C
- Switching point independent of changing media
- Reliable even with adhesive buildup

# **Show Product**



PRO	PRO	PRO
VEGAPULS 6X Show Product	VEGABAR 82 Show Product	VEGASWING 66 Show Product
Measuring range - Distance 120 m	Measuring range - Distance -	Process temperature -196 450 °C
Process temperature -196 450 °C	Measuring range - Pressure -1 100 bar	Process pressure -1 160 bar
Process pressure -1 160 bar	Process temperature -40 150 °C	Version Compact version
Accuracy ± 1 mm	Process pressure -1 100 bar	with gas-tight leadthrough with tube extension
Frequency 6 GHz 26 GHz	Accuracy 0.05 %	Materials, wetted parts 316L Alloy C22 (2.4602) Inconel 718
80 GHz Beam angle	Materials, wetted parts PVDF 316L	Threaded connection G1, 1 NPT, R1
≥ 3° Materials, wetted parts	Alloy C22 (2.4602) PP 1.4057	Flange connection ≥ DN50, ≥ 2"
PTFE PVDF 316L	1.4410 Alloy C276 (2.4819) Duplex (1.4462)	Seal material no media contact
PP PEEK Threaded connection	Titanium Grade 2 (3.7035) Threaded connection	Housing material Plastic Aluminium
≥ G <sup>3</sup> 4, ≥ <sup>3</sup> 4 NPT	≥ G½, ≥½ NPT Flange connection	Stainless steel (precision casting) Stainless steel (electropolished)
≥ DN20, ≥¾"	≥ DN15, ≥ ½" Hygenic fittings	Protection rating
Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851	Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ DN25 - DIN 11851 hygienic fitting with tension flange DN32	IP66/IP68 (1 bar) IP65
Varivent ≥ DN25 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A	hygienic fitting F40 with compression nut DRD connection ø 65 mm SMS 1145 DN51 SMS DN38	Output Relay (DPDT) Transistor (NPN/PNP) Two-wire
Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864- 3-A DRD connection Ø 65 mm	Swagelok VCR screwing Varivent G125 Varivent N50-40 for NEUMO BioControl D50 PN16 / 316L	
SMS 1145 DN51	Seal material EPDM FKM	

FFKM

VEGA HOME OF VALUES