



#### Reliable

High measuring accuracy despite low dielectric constants

#### Cost effective

Maintenance-free operation

#### User friendly

Sensor replacement even during operation thanks to cut-off valve

## LPG spherical tank

### Level and pressure monitoring in liquid gas tanks

LPG tanks are usually only accessible for service and maintenance work every few years during shut-down periods. In addition, the containers are mostly installed underground or covered with earth. The solution is a process independent measuring system that delivers safe and reliable readings despite low dielectric constants and low temperatures.

[More details](#)



#### VEGAPULS 6X

Level measurement with radar in spherical tanks

- Maintenance-free operation thanks to non-contact measuring principle
- High measuring accuracy even with low dielectric constants
- Very narrow signal focusing even in large measuring ranges
- The sensor is simple and easy to replace thanks to cut-off valve and isolation from process

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#### VEGABAR 83

Pressure transmitter for pressure monitoring in spherical tanks

- Universally applicable, fully welded measuring cells for direct connection to process
- A variety of process fittings always enables an appropriate adaptation to the container
- SIL conformity in accordance with IEC 61508, in a single-channel architecture up to SIL2 and in a multi-channel architecture up to SIL3
- Extremely robust measuring cells of Alloy, for higher safety during operation

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## VEGAPULS 6X

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**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 83

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**Measuring range - Distance**  
-

**Measuring range - Pressure**  
-1 ... 1000 bar

**Process temperature**  
-40 ... 200 °C

**Process pressure**  
-1 ... 1000 bar

**Accuracy**  
0.075 %

**Materials, wetted parts**  
316L  
Alloy C22 (2.4602)  
316Ti (1.4571)  
Alloy C4 (2.4610)

**Threaded connection**  
≥ G½, ≥ ½ NPT

**Flange connection**  
≥ DN25, ≥ 1"

**Hygienic fittings**  
Slotted nut ≥ DN25 - DIN 11851  
Varivent ≥ DN25  
hygienic fitting with tension flange DN32  
Hygienic flange connection ≥ DN50 DIN11864-2  
SMS 1145 DN51  
SMS DN38  
Hygienic fittings ≥ DN33 - DIN11864-1-A  
Hyg. collar clamp adapter DN40PN40 DIN11864-3-A  
Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53  
Swagelok VCR screwing  
Varivent G125

**Seal material**  
no media contact