



#### Reliable

Highly overload-resistant measuring systems

#### Cost effective

Accurate level measurement for optimal utilization of the container volumes

#### User friendly

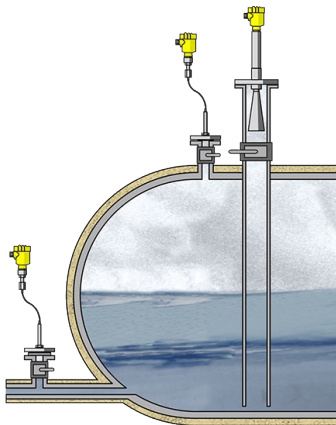
Easy instrument selection: one sensor version fits all tank sizes

## Expansion tank in a thermal solar plant

### Level and pressure measurement of heat transfer fluid (HTF) in expansion tanks

The solar heat captured in the mirror system of a thermal solar plant is transported via a heat transfer fluid (HTF) to the steam generator at the central turbine. The HTF normally has a temperature between 300 °C and 400 °C. There are different containers for the fluid across the plant and the varying temperatures cause volume changes to the HTF that need to be accurately measured to operate the plant safely and profitably.

[More details](#)



#### VEGAPULS 6X

Non-contact level measurement with radar in the expansion vessel for heat transfer fluid

- Reliable function, even at high temperatures
- High-resistance materials guarantee long service life
- Wear-free operation ensured through non-contact measuring method

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#### VEGABAR 81

Pressure measurement in the thermal solar plant pipeline systems

- Highly resistant to overloading due to pressure surges
- Long service life thanks to seal-free measuring cells
- Wear and maintenance-free due to high-resistance diaphragm materials

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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 81

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**Measuring range - Distance**  
-

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

**Process temperature**  
-90 ... 400 °C

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

**Accuracy**  
0.2 %  
0.1 %

**Materials, wetted parts**  
Alloy C22 (2.4602)  
Alloy 400 (2.4360)  
Tantalum  
Alloy C276 (2.4819)  
Duplex (1.4462)  
Titanium Grade 2 (3.7035)  
1.4435  
316/316L  
Titanium Grade 7 (3.7235)

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

**Flange connection**  
≥ DN25, ≥ 1"

**Hygienic fittings**  
Clamp ≥ 1" - DIN32676, ISO2852  
Slotted nut ≥ 1½", ≥ DN40 - DIN 11851  
hygienic fitting with tension flange DN32  
hygienic fitting F40 with compression nut  
Hygienic flange connection ≥ DN50 DIN11864-2  
Hygienic fittings ≥ DN40 - DIN11864-1-A

**Seal material**  
no media contact