



Reliable

Highly overload-resistant measuring systems

Cost effective

Accurate level measurement for optimal utilization of the container volumes

User friendly

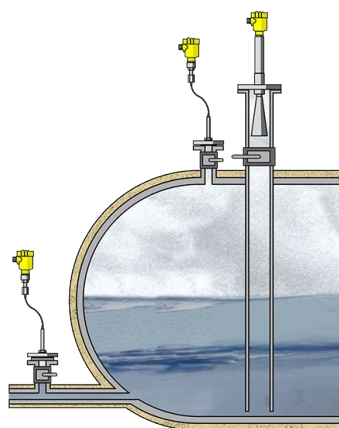
Easy instrument selection: one sensor version fits all tank sizes

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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PRO	PRO
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Measuring range - Distance 120 m	Measuring range - Distance -
Process temperature -196 ... 450 °C	Measuring range - Pressure -1 ... 1000 bar
Process pressure -1 ... 160 bar	Process temperature -90 ... 400 °C
Accuracy ± 1 mm	Process pressure -1 ... 1000 bar
Frequency 6 GHz 26 GHz 80 GHz	Accuracy 0.2 % 0.1 %
Beam angle ≥ 3°	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)
Materials, wetted parts PTFE PVDF 316L PP PEEK	Threaded connection ≥ G¾, ≥ ¾ NPT
Threaded connection ≥ G¾, ≥ ¾ NPT	Flange connection ≥ DN25, ≥ 1"
Flange connection ≥ DN20, ≥ ¾"	Hygienic fittings Clamp ≥ 1" - 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
	Seal material no media contact