



Reliable

Highly overload-resistant measuring systems

Cost effective

Accurate level measurement for optimal utilization of the container volumes

User friendly

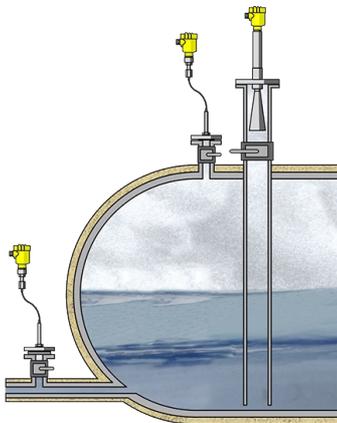
Easy instrument selection: one sensor version fits all tank sizes

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 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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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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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

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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