



Reliable

Reliable measurement ensures reliable operation of the plant

Cost effective

High plant efficiency thanks to precise measurement technology

User friendly

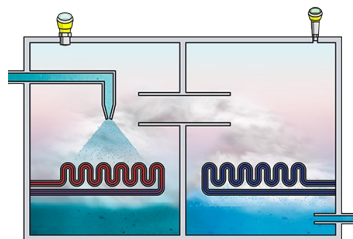
Maintenance and trouble free operation

Evaporation chamber

Level and pressure measurement in multi-stage evaporation systems

In thermal seawater desalination, the drinking water is produced in multi-stage evaporation processes. By connecting the various stages in series with ever lower temperatures, the system's coefficient of performance is significantly increased and its overall efficiency enhanced. Reliable monitoring of the pressures and levels in the various stages is an important prerequisite for optimal operation of the plant.

[More details](#)



VEGAPULS 31

Radar sensor for continuous level measurement in the evaporation chamber

- Exact measuring results unaffected by condensate and agitated surface
- High plant availability thanks to wear and maintenance free measurement
- Secure wireless operation with smartphone, tablet or PC

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VEGABAR 38

Pressure sensor for monitoring pressure in the evaporation chamber

- High accuracy without long-term drift
- 360° status display for quick and easy recognition of switching status
- Simple and fast setup

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BASIC

VEGAPULS 31
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**Measuring range - Distance**

15 m

Process temperature

-40 ... 80 °C

Process pressure

-1 ... 3 bar

Accuracy

± 2 mm

Frequency

80 GHz

Beam angle

8°

Materials, wetted parts

PVDF

Threaded connection

G1½, 1½ NPT, R1½

Seal material

FKM

Housing material

Plastic

BASIC

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**Measuring range - Pressure**

-1 ... 60 bar

Process temperature

-40 ... 130 °C

Accuracy

0.3 %

Materials, wetted parts

PVDF

316L

Duplex (1.4462)

Ceramic

Threaded connection

≥ G½, ≥ ½ NPT

Hygienic fittings

Clamp ≥ 2" - DIN32676, ISO2852

Clamp ≥ 1" - DIN32676, ISO2852

Clamp ≥ 1½" - DIN32676, ISO2852

Slotted nut ≥ 1½", ≥ DN40 - DIN 11851

Slotted nut ≥ DN25 - DIN 11851

SMS DN38

Hygienic fittings ≥ DN25 - DIN11864-1-A

Hygienic fittings ≥ DN40 - DIN11864-1-A

Varivent N50-40

SMS DN25

Ingold connection PN10

Varivent F25

Seal material

EPDM

FKM

FFKM

Housing material

Plastic

Protection rating

IP66/IP67

IP65

Output

4 ... 20 mA

Three-wire (PNP/NPN, 4 ... 20 mA)

IO-Link