



#### Reliable

Reliable measurement ensures reliable operation of the plant

#### Cost effective

High plant efficiency thanks to precise measurement technology

#### User friendly

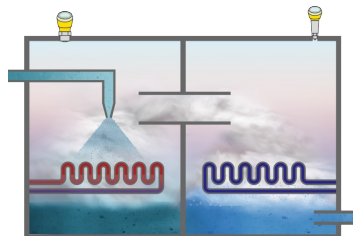
Maintenance and trouble free operation

## 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

**VEGABAR 38**  
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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", DN50 - 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