



#### Reliable

Reliable measurement of the waste volume

#### Cost effective

Robust measuring technology ensures long, maintenance-free operation

#### User friendly

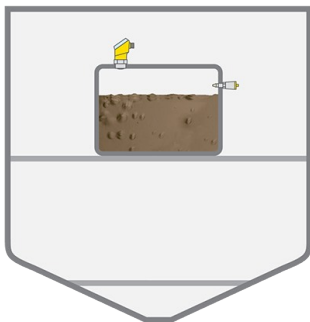
Simple installation and setup

## Service tanks with grey and black water

### Level measurement in tanks with grey or black water

Waste water, known as grey/black water on ships, is treated on board larger vessels using ship-board clarification plants or it may be stored in special grey/black water tanks to await final disposal. Direct electrical measuring principles are mandatory for level measurement.

[More details](#)



### VEGAPULS 21

Level measurement with radar in grey or black water tanks

- Reliable measurement by means of non-contact measuring method, even with liquids containing solids
- Easy installation thanks to the small process fitting

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### VEGAPOINT 21

Capacitive point level sensor for point level detection in the service tank

- Compact design enables mounting in virtually any position
- Low-cost level switch with extremely small installation dimensions

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## BASIC

**VEGAPULS 21**  
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**Measuring range - Distance**  
20 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

**VEGAPOINT 21**  
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**Measuring range - Distance**  
-

**Process temperature**  
-40 ... 115 °C

**Process pressure**  
-1 ... 64 bar

**Materials, wetted parts**  
316L  
PEEK

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

**Hygenic 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  
Slotted nut ≥ DN32 - DIN 11851

**Seal material**  
EPDM  
FKM

**Protection rating**  
IP66/IP67  
IP69

**Output**  
Transistor (NPN/PNP)  
IO-Link

**Ambient temperature**  
-40 ... 70 °C