



#### **Reliable**

Reliable, millimetre-exact detection of the sea level

#### **Cost effective**

No maintenance or cleaning required

#### **User friendly**

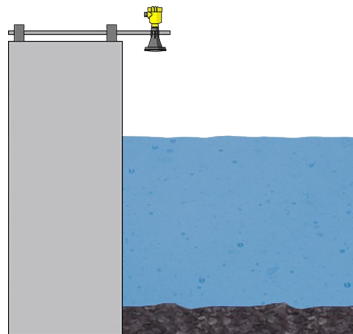
Simple installation, easy access to the measuring point at any time

## Tsunami warning system in the harbour

### **Sea level measurement at the harbour wall**

Tsunamis travel quickly and cause great damage when they hit land. So it is vital that tsunami warnings are issued early. Tsunami information centres continuously evaluate simultaneous data from seismic and sea level measuring stations. Such a sea level measuring station is operated by an oceanographic centre in a ferry and cargo-ship terminal. The measurement has to reliably and accurately detect the sea level and forward the data directly to the central monitoring system.

[More details](#)



### **VEGAPULS 6X**

Sea level measurement with radar at the harbour wall

- Contactless and maintenance-free
- Precision focusing of the measurement signal allows mounting close to the harbour wall
- Reliable function, independent of weather and sea conditions

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**VEGAPULS 6X**  
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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