



#### Reliable

Reliable level switch protects the tunnel system from rocks and sand

#### Cost effective

Flushing only on demand

#### User friendly

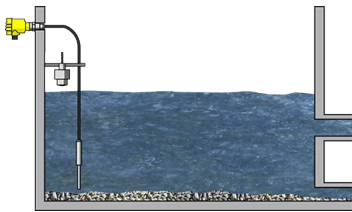
Automatic operation

## Water inlet at the reservoir

### Level measurement and point level detection of stones and sand in the water basin

If the natural flow of water into a reservoir is not sufficient for optimal energy production, additional water is fed into the reservoir via ducts or tunnels from water catchments that can be up to several kilometres distant. Coarse debris is held back by massive grids at the main water inlet. Smaller stones, grit and sand can accumulate in the transfer basin in front of the tunnel. Constant monitoring of the level of stones and sand in the basin ensures that no debris gets into the tunnel system.

[More details](#)



#### VEGAPULS C 21

Level measurement with radar in the water basin

- Exact measuring results unaffected by ambient conditions
- Maintenance-free operation with non-contact 80 GHz radar technology
- Highly resistant materials ensure a long service life

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#### VEGAVIB 62

Point level detection with vibrating level switch for on-demand cleaning of the basin of stones and sand

- Reliable level measurement, unaffected by debris
- Robust design ensures dependable function
- Maintenance-free operation reduces maintenance costs

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## BASIC

## VEGAPULS C 21

[Show Product](#)**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 / G1, 1½ NPT / 1 NPT, R1½ / R1

**Seal material**

FKM

**Protection rating**

IP66/IP68 (3 bar), Type 6P

## PRO

## VEGAVIB 62

[Show Product](#)**Process temperature**

-40 ... 150 °C

**Process pressure**

-1 ... 6 bar

**Version**

Detection of solids in water  
Suspension cable

**Materials, wetted parts**

316L  
FEP  
PUR

**Threaded connection**

≥ G1, ≥ 1 NPT

**Flange connection**

≥ DN 32, ≥ 1½"

**Seal material**

CR, CSM

**Housing material**

Plastic  
Aluminium  
Stainless steel (precision casting)  
Stainless steel (electropolished)

**Protection rating**

IP66/IP68 (0,2 bar)  
IP66/IP67  
IP66/IP68 (1 bar)

**Output**

Relay (DPDT)  
Contactless electronic switch  
Transistor (NPN/PNP)  
Two-wire  
NAMUR