



#### Reliable

Approved materials according to FDA and EC 1935/2004, as well as local certification

#### Cost effective

Optimal flow

#### User friendly

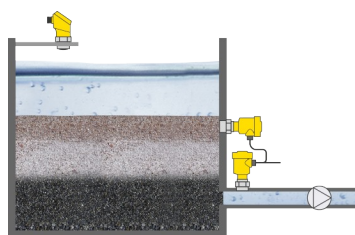
Function check is possible during operation

## Gravel bed filter

### Differential pressure and level measurement in a gravel filter

The suspended matter is filtered out of the water via the sand and gravel filled filter tank. Pressure is applied to pump water through the filter bed. Dirt particles are retained in the filter material. The electronic differential pressure measurement monitors the level of contamination in the filter. As soon as the threshold contamination is exceeded, an automatic cleaning cycle of the filter is triggered.

[More details](#)



#### VEGABAR 82

Electronic differential pressure measurement for filter monitoring

- Highly abrasion resistant ceramic CERTEC® measuring cell
- Moisture proof measuring cell for long-term stability and reliability
- Simpler installation, direct mounting means impulse lines are not required

[Show Product](#)



#### VEGAPULS 11

Non-contact level measurement with radar in the gravel filter

- High measuring accuracy independent of ambient conditions
- Reliable measurement ensures continuous water supply
- Maintenance-free operation due to non-contact measurement

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PRO

BASIC

**VEGABAR 82**  
[Show Product](#)



**VEGAPULS 11**  
[Show Product](#)



**Measuring range - Distance**

-

**Measuring range - Distance**

8 m

**Measuring range - Pressure**

-1 ... 100 bar

**Process temperature**

-40 ... 60 °C

**Process temperature**

-40 ... 150 °C

**Process pressure**

-1 ... 3 bar

**Process pressure**

-1 ... 100 bar

**Accuracy**

± 5 mm / ± 0.2"

**Accuracy**

0.05 %

**Frequency**

80 GHz

**Materials, wetted parts**

PVDF  
 316L  
 Alloy C22 (2.4602)  
 PP  
 1.4057  
 1.4410  
 Alloy C276 (2.4819)  
 Duplex (1.4462)  
 Titanium Grade 2 (3.7035)

**Beam angle**

8°

**Materials, wetted parts**

PVDF

**Threaded connection**

G1½, 1½ NPT, R1½

**Seal material**

FKM

**Threaded connection**

≥ G½, ≥ ½ NPT

**Housing material**

Plastic

**Flange connection**

≥ DN15, ≥ ½"

**Hygienic fittings**

Clamp ≥ 1" - DIN32676, ISO2852  
 Slotted nut ≥ DN25 - DIN 11851  
 hygienic fitting with tension flange DN32  
 hygienic fitting F40 with compression nut  
 DRD connection ø 65 mm  
 SMS 1145 DN51  
 SMS DN38  
 Swagelok VCR screwing  
 Varivent G125  
 Varivent N50-40  
 for NEUMO BioControl D50 PN16 / 316L

**Seal material**

EPDM  
 FKM  
 FFKM