



**Reliable**

Special sealing concept prevents diffusion

**Cost effective**

Maximum tank utilization

**User friendly**

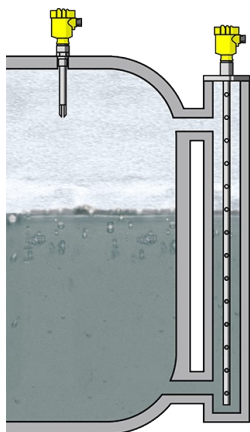
Minimal maintenance costs

## Ammonia tank

### Level measurement and point level detection in the ammonia tank

The diffusion behaviour of ammonia is extreme, which means it can eventually pass through any conventional process fitting or elastomer seal. To avoid any long term leaks and unwanted outages, gas-tight process sealing and special safety configurations are therefore mandatory, which considerably restricts the choice of instrumentation. The high risk potential and tough environmental restrictions also make reliable control of the level absolutely necessary when handling ammonia.

[More details](#)



#### VEGAFLEX 81

Level measurement with guided radar in the ammonia tank

- Measurement is unaffected by the ammonia atmosphere
- Protection against ammonia diffusion using special sensor sealing concept
- Precise measurement data enables high process reliability

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#### VEGASWING 63

Vibrating level switch for overfill protection in the ammonia tank

- Absolutely diffusion-tight fully welded structure
- Simple setup without calibration
- Function test during operation reduces maintenance costs and increases process availability

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## VEGAFLEX 81

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**Measuring range - Distance**  
75 m

**Process temperature**  
-60 ... 200 °C

**Process pressure**  
-1 ... 40 bar

**Accuracy**  
± 2 mm

### Version

Basic version for exchangeable cable  $\varnothing$  2;  $\varnothing$  4 mm  
 Basic version for exchangeable rod  $\varnothing$  8 mm  
 Basic version for exchangeable rod  $\varnothing$  12 mm  
 Coax version  $\varnothing$  21.3 mm for ammonia application  
 Coax version  $\varnothing$  21.3 mm with single hole  
 Coax version  $\varnothing$  21.3 mm with multiple hole  
 Coax version  $\varnothing$  42.2 mm with multiple hole  
 Exchangeable rod  $\varnothing$  8 mm  
 Exchangeable rod  $\varnothing$  12 mm  
 Exchangeable cable  $\varnothing$  2 mm with gravity weight  
 Exchangeable cable  $\varnothing$  4 mm with gravity weight  
 Exchangeable cable  $\varnothing$  2 mm with centering weight  
 Exchangeable cable  $\varnothing$  4 mm with centering weight  
 Exchangeable cable  $\varnothing$  4 mm without weight  
 exchangeable, PFA-coated cable  $\varnothing$  4 mm with non-coated centering weight

### Materials, wetted parts

PFA  
 316L  
 Alloy C22 (2.4602)  
 Alloy 400 (2.4360)  
 Alloy C276 (2.4819)  
 Duplex (1.4462)  
 304L

**Threaded connection**  
 $\geq G\frac{3}{4}$ ,  $\geq \frac{3}{4}$  NPT

**Flange connection**  
 $\geq DN25$ ,  $\geq 1"$

### Seal material

EPDM  
 FKM  
 FFKM  
 Silicone FEP coated  
 Borosilicate glass

### Housing material

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

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## VEGASWING 63

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**Process temperature**  
-50 ... 250 °C

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

### Version

Standard  
 Hygienic applications  
 with gas-tight leadthrough  
 with tube extension  
 with temperature adapter

### Materials, wetted parts

PFA  
 316L  
 Alloy C22 (2.4602)  
 Alloy 400 (2.4360)  
 ECTFE  
 Enamel

**Threaded connection**  
 $\geq G\frac{3}{4}$ ,  $\geq \frac{3}{4}$  NPT

**Flange connection**  
 $\geq DN25$ ,  $\geq 1"$

### Hygienic fittings

Clamp  $\geq 1"$  - DIN32676, ISO2852  
 Slotted nut  $\geq 1\frac{1}{2}"$ ,  $\geq DN40$  - DIN 11851  
 Varivent  $\geq DN25$   
 hygienic fitting F40 with compression nut  
 SMS 1145 DN51  
 SMS DN38  
 Hygienic fittings  $\geq DN25$  - DIN11864-1-A  
 Hygienic flange connection DIN11864-2-A;  
 DN60(ISO) $\varnothing$ 60,3  
 SMS socket piece DN38 PN6

**Seal material**  
no media contact

### Housing material

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

### Protection rating

IP66/IP67  
 IP66/IP68 (1 bar)  
 IP65