



#### Reliable

Special sealing concept prevents diffusion

#### Cost effective

Maximum tank utilization

#### User friendly

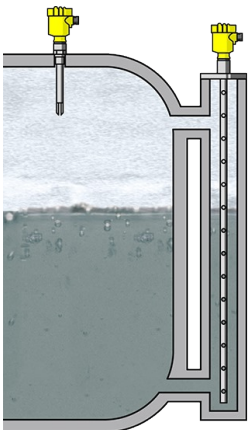
Minimal maintenance costs

## 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 overflow 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