



Ammonia reactor

Reliable

Special sealing concept prevents diffusion by the ammonia

Cost effective

Maintenance-free operation even at high temperatures and pressures

User friendly

Simple installation and commissioning

Pressure measurement at the inlet of the ammonia reactor

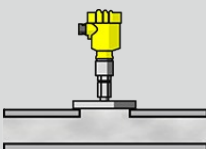
In the ammonia reactor, nitrogen reacts with hydrogen to form ammonia. The temperature in the reactor can be anywhere up to 500 °C at pressures of 200 bar. To monitor the system pressure, the measurement itself does not take place in the interior of the reactor, but in the cooler inlet pipe of the reactor.



VEGABAR 81

Pressure transmitter for measuring pressure at reactor inlet

- Reliable measurement at high temperatures and pressures
- Special sealing concept prevents ammonia diffusion when handling aggressive media
- Long service life through use of chemically resistant materials





VEGABAR 81

Measuring range - Distance

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Measuring range - Pressure

-1 ... 1000 bar

Process temperature

-90 ... 400 °C

Process pressure

-1 ... 1000 bar

Accuracy

0.2 %

Materials, wetted parts

Alloy C22 (2.4602)

Alloy 400 (2.4360)

Tantalum

Alloy C276 (2.4819)

Duplex (1.4462)

Titanium Grade 2 (3.7035)

1.4435

316/316L

Titanium Grade 7 (3.7235)

Threaded connection

≥ G½, ≥ ½ NPT

Flange connection

≥ DN25, ≥ 1"

Hygienic fittings

Clamp ≥ 1" - DIN32676, ISO2852

Slotted nut ≥ 1½", ≥ DN40 - DIN 11851

hygienic fitting with tension flange DN32

hygienic fitting F40 with compression nut

Hygienic flange connection ≥ DN50 DIN11864-2

Hygienic fittings ≥ DN40 - DIN11864-1-A

Seal material

no media contact