



Reliable

Reliable measurement, independent of the process conditions

Cost effective

Resistant materials deliver long service life

User friendly

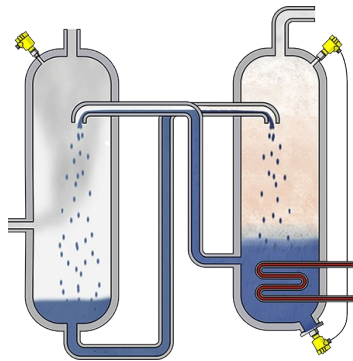
One sensor, two measured values: ceramic cell measures temperature and pressure

Gas scrubber

Level and pressure measurement in gas scrubbers

Carbon dioxide is separated from a gas mixture via two scrubbing columns. The gas mixture consisting of nitrogen, hydrogen and carbon dioxide passes through a gas pipeline into the first stage gas scrubber. An added solvent, usually aniline, binds with the carbon dioxide, which is then forwarded in liquid form to a gas scrubber or 'desorber' where it is "washed" out of the liquid. The process pressure is monitored during the absorption process, which takes place at high pressure and low temperature. The actual separation of the carbon dioxide from the liquid, however, is carried out under low pressure and high temperature, where the level of the liquid needs to be kept as constant as possible.

[More details](#)



VEGABAR 83

Pressure transmitter for monitoring pressure in the gas scrubber

- Reliable measurement independent of high pressures
- High chemically resistant measuring cell ensures long-term plant operation
- Special seals prevent diffusion by ammonia

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VEGABAR 82

Level measurement by means of electronic differential pressure

- Reliable measurement independent of tank internals
- Integrated temperature sensor saves cost of additional temperature measuring instruments
- Excellent plant availability with high overload capacity ceramic CERTEC® measuring cell

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VEGABAR 83
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Measuring range - Distance

-

Measuring range - Pressure

-1 ... 1000 bar

Process temperature

-40 ... 200 °C

Process pressure

-1 ... 1000 bar

Accuracy

0.075 %

Materials, wetted parts

316L
 Alloy C22 (2.4602)
 316Ti (1.4571)
 Alloy C4 (2.4610)

Threaded connection

≥ G½, ≥ ½ NPT

Flange connection

≥ DN25, ≥ 1"

Hygienic fittings

Slotted nut ≥ DN25 - DIN 11851
 Varivent ≥ DN25
 hygienic fitting with tension flange DN32
 Hygienice flange connection ≥ DN50 DIN11864-2
 SMS 1145 DN51
 SMS DN38
 Hygienic fittings ≥ DN33 - DIN11864-1-A
 Hyg. collar clamp adapter DN40PN40 DIN11864-3-A
 Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53
 Swagelok VCR screwing
 Varivent G125

Seal material

no media contact

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Measuring range - Distance

-

Measuring range - Pressure

-1 ... 100 bar

Process temperature

-40 ... 150 °C

Process pressure

-1 ... 100 bar

Accuracy

0.05 %

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)

Threaded connection

≥ G½, ≥ ½ NPT

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