



## Gas scrubber

### 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

### 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.



#### VEGABAR 83

Pressure transmitter for monitoring pressure in the gas scrubber

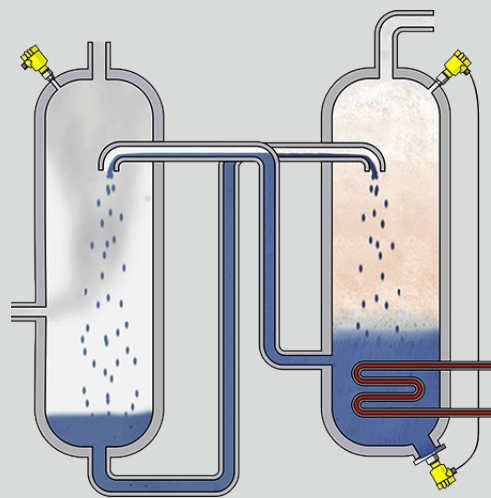
- Reliable measurement independent of high pressures
- High chemically resistant measuring cell ensures long-term plant operation
- Special seals prevent diffusion by ammonia



#### 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





VEGABAR 83	VEGABAR 82
Measuring range - Distance -	Measuring range - Distance -
Measuring range - Pressure -1 ... 1000 bar	Measuring range - Pressure -1 ... 100 bar
Process temperature -40 ... 200 °C	Process temperature -40 ... 150 °C
Process pressure -1 ... 1000 bar	Process pressure -1 ... 100 bar
Accuracy 0.075 %	Accuracy 0.05 %
Materials, wetted parts 316L Alloy C22 (2.4602) 316Ti (1.4571) Alloy C4 (2.4610)	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	Threaded connection ≥ G½, ≥ ½ NPT
Flange connection ≥ DN25, ≥ 1"	Flange connection ≥ DN15, ≥ ½"
Hygienic fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ DN25 - DIN 11851 Varivent ≥ DN25 hygienic fitting with tension flange DN32 Hygienic 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	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 FEPM	Seal material EPDM FKM FFKM