



Reliable

High measuring certainty without mechanical wear

Cost effective

Optimal information on the quantity of available gas

User friendly

Maintenance-free, reliable operation of the system

Gas storage tank

Volume and pressure monitoring in a gas storage tank

The hydrogen produced in the electrolyser is temporarily stored in a gas storage tank. Depending on the design of the gas storage tank, either a flexible diaphragm of plastic or a floating roof is used for volume equalization. The gas volume and gas pressure are measured continuously to ensure reliable and safe operation.

More details



VEGAPULS 6X

Continuous level measurement with radar for permanent gas volume measurement

- Maintenance-free operation using 80 GHz non-contact radar technology
- Exact measuring results, independent of medium, process and operating conditions
- Simple integration into existing gas storage tanks
- Wireless operation via Bluetooth with smartphone, tablet or PC

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Monitoring of the gas pressure in the gas reservoir

- High measuring accuracy through use of finely graduated measuring cells and measuring ranges
- Robust sensor construction for high availability
- Long-term stability of the ceramic measuring cell for maintenance-free operation

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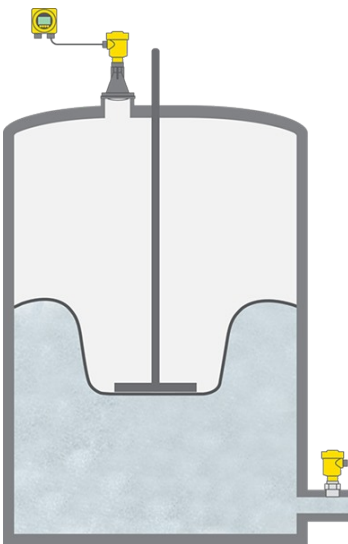


VEGATRENN 141

Separator (supply isolator) for optimal power supply to connected sensors

- On-site diagnostics for immediate status display via LEDs
- Simple parameterisation interface via HART sockets for convenient operation
- Guarantees galvanic isolation between sensor and PLC

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VEGAPULS 6X

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Measuring range - Distance
120 m

Process temperature
-196 ... 450 °C

Process pressure
-1 ... 160 bar

Accuracy
± 1 mm

Frequency
6 GHz
26 GHz
80 GHz

Beam angle
≥ 3°

Materials, wetted parts
PTFE
PVDF
316L
PP
PEEK

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN20, ≥ ¾"

Hygienic fittings
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ 2", DN50 - DIN 11851
Varivent ≥ DN25
hygienic fitting with tension flange DN32
hygienic fitting F40 with compression nut
Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A
Hygienic flange connection ≥ DN50 DIN11864-2
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
DRD connection ø 65 mm
SMS 1145 DN51

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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
≥ G¾, ≥ ¾ 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

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Protection rating
IP20

Input
1 x 4 ... 20 mA/HART sensor input

Output
1 x 4 ... 20 mA

Ambient temperature
-20 ... 60 °C