

Reliable

Unaffected by extreme process conditions

Cost effective

Reliable, continuous operation with absolute hygiene

User friendly

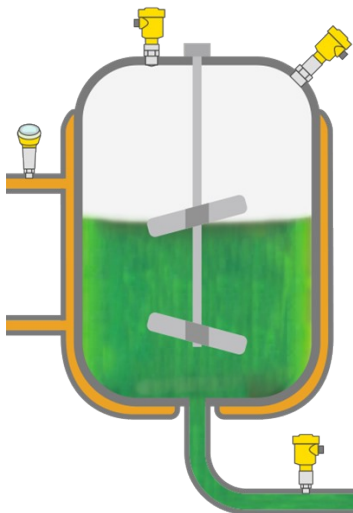
Easy adjustment and setup, as internals do not interfere

Bioreactor

Level and pressure measurement in the production of enzymes, proteins and antibodies

Some pharmaceutical companies use bioreactor vessels to cultivate particular cells or microorganisms required for certain treatments. The very high level of hygiene required means the vessels and all associated parts must be easy to thoroughly clean, because even the slightest contamination with other organisms can lead to an aborted production run. These reactors are mainly "batch-fed", where they are completely filled at the start and not emptied again until the process is completed. The pressure and level in the reactor have to be monitored continuously during process in order to obtain a high-quality yield.

More details



VEGAPULS 6X

Radar sensor for continuous level measurement in the bioreactor

- The front-flush, encapsulated antenna is easy to clean and resistant to the extreme conditions of the SIP and CIP processes
- Maximum utilization of the reactor, measurement is unaffected by changing products and process conditions
- The small beam angle and good focusing of the sensor allows easy alignment

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VEGABAR 83

Pressure transmitter for continuous pressure monitoring in the bioreactor and in the pipeline

- The welded, 50 µm-thick Alloy diaphragm with aseptic process fitting is a hygienically optimal and reliable solution
- Neither the chemical cleaning cycles nor the thermal shocks after sterilization can affect the diaphragm
- Pressure measurement in the pipeline for monitoring CIP cleaning processes

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Pressure monitoring with IO-Link connection in the supply line of the heating medium

- Reliable measurement thanks to fast response time
- Robust ceramic CERTEC® measuring cell guarantees a long service life
- Simple operation thanks to VDMA menu structure and integrated display

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PRO

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

PRO

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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
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN25, ≥ 1"

Hygienic fittings
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

Seal material
no media contact

BASIC

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Measuring range - Pressure
-1 ... 60 bar

Process temperature
-40 ... 130 °C

Accuracy
0.3 %

Materials, wetted parts
PVDF
316L
Duplex (1.4462)
Ceramic

Threaded connection
≥ G½, ≥ ½ NPT

Hygienic fittings
Clamp ≥ 2", DN50 - DIN32676, ISO2852
Clamp ≥ 1" - DIN32676, ISO2852
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ 1½", ≥ DN40 - DIN 11851
Slotted nut ≥ DN25 - DIN 11851
SMS DN38
Hygienic fittings ≥ DN25 - DIN11864-1-A
Hygienic fittings ≥ DN40 - DIN11864-1-A
Varivent N50-40
SMS DN25
Ingold connection PN10
Varivent F25

Seal material
EPDM
FKM
FFKM

Housing material
Plastic

Protection rating
IP66/IP67
IP65

Output
4 ... 20 mA
Three-wire (PNP/NPN, 4 ... 20 mA)
IO-Link