



### Reliable

Approved materials in compliance with FDA and EC 1935/2004

### Cost effective

Maintenance-free operation

### User friendly

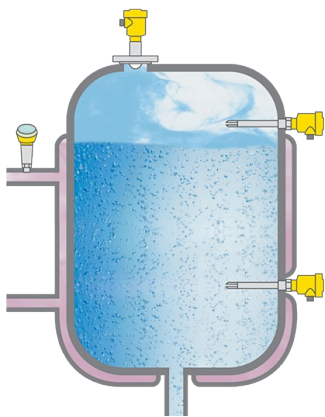
Simple installation

## Preparation tank for solvents

### Level measurement in the preparation tank for solvents

The various solvents and intermediate carrier materials have to be first prepared before they proceed onto further production steps. This is usually carried out in bioreactors and fermentation tanks. These vessels are enclosed with a steam heating jacket to regulate the temperature inside the mixing process. The level measuring system is needed to control filling and discharge as well as monitor during the process. Level detection prevents the tank from overflowing or running empty.

[More details](#)



### VEGAPULS 6X

Non-contact level measurement in the preparation tank for solvents

- Strong focusing allows reliable measurement at close range and at the bottom of the tank as well as in media with low dielectric constant
- The front-flush, encapsulated antenna is easy to clean and resistant to the extreme conditions of the SIP and CIP processes.
- Measurement not affected by condensation and internal fixtures

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### VEGASWING 63

Vibrating level switch as overflow and dry run protection

- Reliable detection of the limit level, independent of medium
- Reliable function under all process conditions
- Simple setup without adjustment
- Hygienic design ensures easy and reliable CIP and SIP cleaning

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### VEGABAR 38

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

**VEGASWING 63**  
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**Process temperature**  
 -50 ... 250 °C

**Process pressure**  
 -1 ... 64 bar

**Version**  
 Standard  
 Hygienic applications  
 with gas-tight leadthrough  
 with tube extension  
 with temperature adapter

**Materials, wetted parts**  
 PFA  
 316L  
 Alloy C22 (2.4602)  
 Alloy 400 (2.4360)  
 ECTFE  
 Enamel

**Threaded connection**  
 ≥ G¾, ≥ ¾ NPT

**Flange connection**  
 ≥ DN25, ≥ 1"

**Hygienic fittings**  
 Clamp ≥ 1" - DIN32676, ISO2852  
 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851  
 Varivent ≥ DN25  
 hygienic fitting F40 with compression nut  
 SMS 1145 DN51  
 SMS DN38  
 Hygienic fittings ≥ DN25 - DIN11864-1-A  
 Hygienic flange connection DIN11864-2-A;  
 DN60(ISO)ø60,3  
 SMS socket piece DN38 PN6

**Seal material**  
 no media contact

**Housing material**  
 Plastic  
 Aluminium  
 Stainless steel (precision casting)  
 Stainless steel (electropolished)

**Protection rating**  
 IP66/IP67  
 IP66/IP68 (1 bar)  
 IP65

BASIC

**VEGABAR 38**  
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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