



Reliable

Reliable measurement independent of process conditions

Cost effective

plics® concept: short delivery time and standardized operation

User friendly

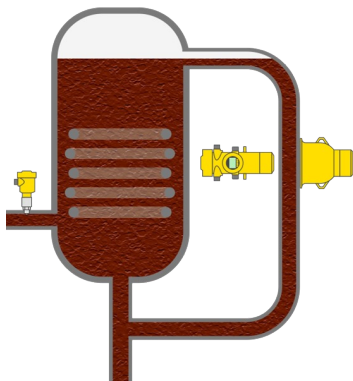
Simple installation and commissioning

Evaporator

Density and pressure measurement during spice slurry thickening

In the production of spices, the spices are first mixed with water and oil to form a slurry. This is fed into an evaporator, where water is removed to turn it into a kind of syrup. The thickened spice syrup must have exactly the right density - so that it can be spread thinly onto metal sheets for oven drying, ready to be ground into powder. To ensure the optimal density of the spice syrup, it requires a continuous measurement during manufacture. The pressure in the feed pipe leading to the evaporator also requires careful monitoring to ensure a smooth-running production process.

[More details](#)



MINITRAC 31

Radiation-based sensor for density measurement in the evaporator

- External non-contact measurement through the pipeline regardless of process conditions and product properties
- Small, compact design enables space-saving installation
- PLICSCOM display and adjustment module for quick setup and on-site display of measured values

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VEGASOURCE 31

The source holder houses the radiation capsule and protects it from external influences

- Minimal space requirement and simple installation
- Pneumatic opening and closing of the source holder ensures high operational reliability
- Reliable shielding minimises the control area

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VEGABAR 82

Pressure transmitter for monitoring pressure in the evaporator feed pipe

- Wear-resistant CERTEC® ceramic measuring cell is non-sensitive to abrasion
- Absolutely front-flush ceramic diaphragm avoids sticking and abrasion damage
- Long service life thanks to the robust measuring cell

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PRO

MINITRAC 31
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Measuring range - Distance

-

Process temperature

-40 ... 60 °C

Process pressure

-

Accuracy

0.1 %

Materials, wetted parts

No wetted material

Seal material

no media contact

Housing material
Aluminium
Stainless steel (precision casting)
Protection rating

IP66/IP67

Output
Profibus PA
Foundation Fieldbus
Four-wire: 4 ... 20 mA/HART
Ambient temperature

-40 ... 60 °C

VEGASOURCE 31
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Ambient temperature

-20 ... 80 °C

PRO

VEGABAR 82
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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