



Reliable

Reliable measurement ensures trouble-free operation of the homogenizer

Cost effective

Optimal control of the pistons through monitoring of the high-pressure pump

User friendly

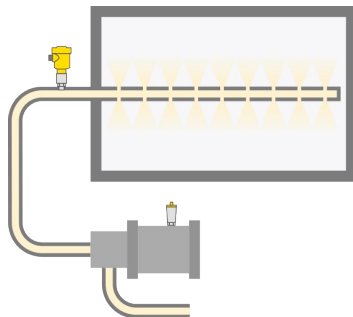
Simple connection via standardised IO-Link

Homogenizer

Pressure measurement in a homogenizer

In order to prevent the milk fat from settling on top of the milk, either just the cream or the whole milk is homogenised in the next step. This is where the cream or milk is pushed through micro-sized nozzles, which reduces the size of the fat globules and distributes them evenly in the liquid. The homogenised cream is then returned to the skimmed milk. Pressure in the feed line is monitored to control the homogenisation process. At the same time, pressure monitoring of the hydraulic oil ensures optimal control of the pistons.

[More details](#)



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Pressure transmitter for pressure monitoring in a homogenizer

- Robust measuring cell guarantees long-term stability
- Suitable for CIP cleaning processes, temperature resistant up to +150 °C
- Bluetooth communication for easy diagnosis

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Pressure switch for monitoring the hydraulic oil

- Highly overload resistant metallic measuring cell
- IO-Link connection for simple integration and user-configurable switching output
- 360° display of the switching status

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PRO

BASIC

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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

≥ G½, ≥ ½ NPT

Flange connection

≥ DN25, ≥ 1"

Hygienic fittings

Slotted nut ≥ DN25 - DIN 11851
 Varivent ≥ DN25
 hygienic fitting with tension flange DN32
 Hygienice 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

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Measuring range - Pressure

-1 ... 1000 bar

Process temperature

-40 ... 130 °C

Accuracy

0.3 %

Materials, wetted parts

316L

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 1145 DN51
 SMS DN38
 Hygienic fittings ≥ DN25 - DIN11864-1-A
 Hygienic fittings ≥ DN40 - DIN11864-1-A
 Varivent N50-40
 SMS DN25
 Ingold connection PN10
 Varivent F25

Protection rating

IP65
 IP68 (0,5 bar)/IP69

Output

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

Ambient temperature

-40 ... 70 °C