

# VAF

INSTRUMENTS



## ViscoSense®3D

### Mass Flow Measurement

Engine fuel consumption by the new ViscoSense®3D in combination with VAF Instruments PT2 Flowmeters gives mass flow measurements with accuracy up to 0,25%.

After many years of research ViscoSense®3D is especially designed for the maritime industry. Based on proven ViscoSense® measuring technology ViscoSense®3D is also applicable for CCAI calculations.

Combining two of the most reliable sensors results in the most accurate and cost effective solution for mass flow measurement. ViscoSense®3D is a small step giving mass results.

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## Technical specifications ViscoSense®3D

## Sensor

Viscosity range	0 .. 25/50 mPa.s (other ranges on request, max. 1000 mPa.s)
Density range	750-1100 g/l (calibrated range will be smaller)
Temperature range	0 .. 200°C
Maximum operating temperature	180°C
Temperature transmitter	PT 100 element

## Accuracy

Viscosity	± 2% instantaneous or 0.5 mPa.s
Density	± 0,1% instantaneous or 1 g/l
Temperature	± 1°C

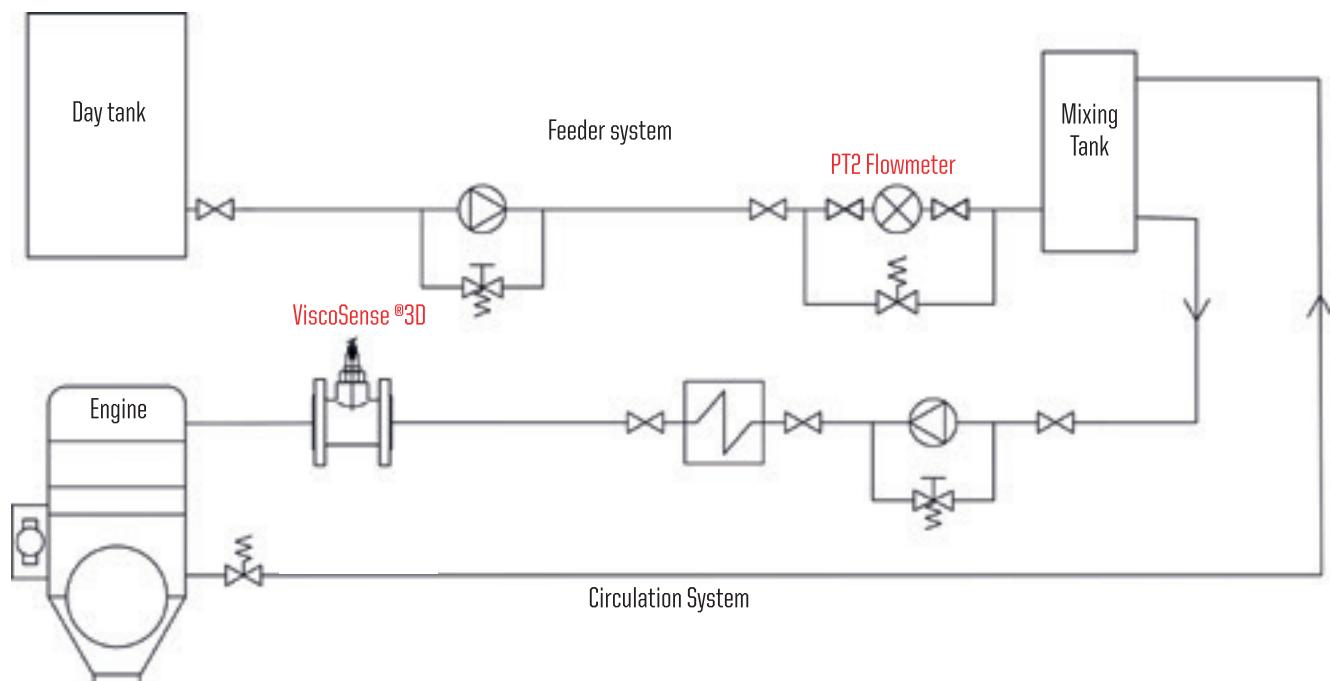
## Material

Sensor	Stainless steel 316L / Ni-alloy
Coating	Diamond Like Carbon (DLC)
Protection class	IP65
Weight	1 kg

## Interface box

Viscosity, density and temperature output	Isolated active output 4...20 mA, current loop, max. load 400Ω
Bus	Modbus over TCP/IP: all measuring data
Resolution	0,1 mPa.s and 0,1 g/l

## Typical system arrangement for mass flow measurement with ViscoSense®3D



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