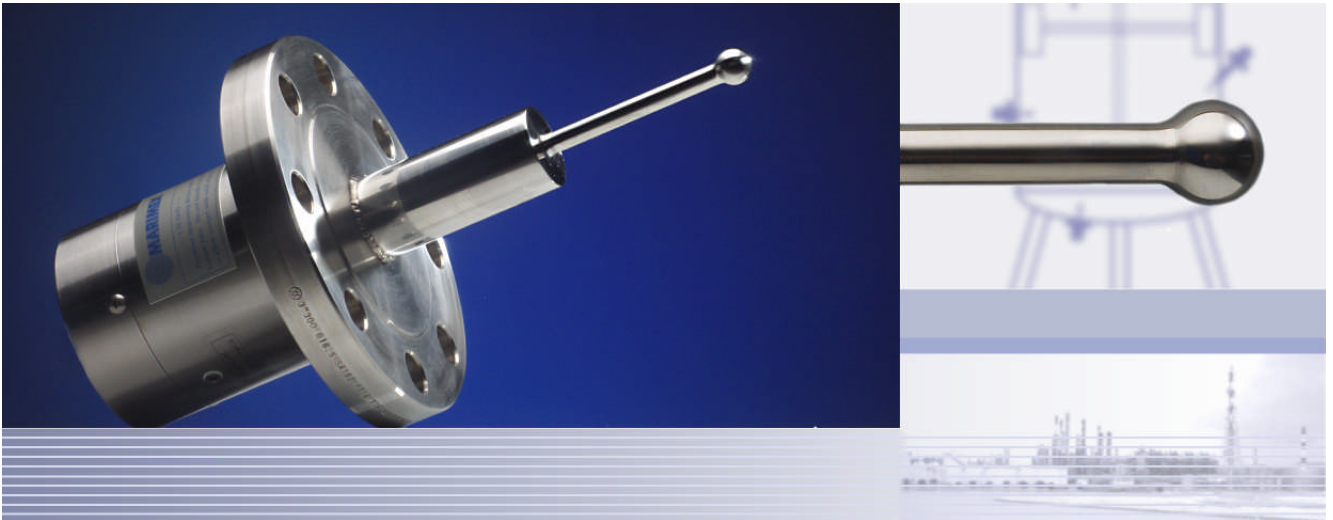


ViscoScope VA-300X sensor

The sensor for very high viscosities



ViscoScope-Sensor Model **VA-300X-ST** with flange DN80 PN40 and non-active-extension (NAE) 44 x 100 mm / 1.75 x 4"

The **VA-300X** (extra high viscosity) sensor with the mini-sphere is the ideal solution for extremely viscous fluids. This model can be calibrated up to 2,500,000 mPa·s and, as such, is suitable for use, e.g. with very long-chain polymers and silicones.


The sensor is primarily installed in pipe bends – fitted with a non-active extension (NaV) in order to avoid no-flow zones – and is often set up for high pressure. The process temperature is also measured at this location using a Pt100 temperature sensor, which is integrated into the sensor probe. This permits calculation of the temperature-compensated viscosity with a reproducibility of $\pm 0.5\%$ of reading taken.

With extensive experience in this field, we will be happy to advise you on selecting the ideal instrument for your application.

Typical Applications

- Extruder
- Polymers
- Silicon
- PIB
- PET
- Bitumen
- Extracts
- Food
- Pharmaceuticals

Sensor – Specification

Sensor type	VA-300X - mini sphere
Viscosity range	100 – 2,500,000 mPa·s x gr/cm ³
Calibration	in 3 decades, option 4 decades
Probe size	∅ 19 x 114 mm / ∅ 0.75 x 4.5"
Material	1.4571 and 316L option: Hastelloy C22, Duplex 2205, teflon coating
Protection	IP65
Process temperature (Pt100 is integrated into viscosity probe)	LT from -40°C to 130°C / -40°F to 270°F ST from -40°C to 300°C / -40°F to 570°F HT from -40°C to 450°C / -40°F to 840°F ST and HT with air cooling, dependend on installation
Process connection Flange	Standard DN80 PN40 or ANSI 3" 300# others on request
Pressure	Vacuum up to 450 bar / 6,500 psi
Installation	Installation in any orientation in reactor, vessel, pipe, flow-through cell
Resonance frequency Shear rate	~ 635 Hz ~ 4000 sec ⁻¹
Cable length Sensor - Transmitter	maximum 1,000 meters / 3,330 feet
Speed of flow	up to 10 m / sec. or 33 feet / sec., dependend on installation
Reproducibility of reading	± 0,5%
Accuracy of reading	± 1%
option: hazardous area	ATEX:  II 1/2 G EEx ia IIC T3 – T6
option: non-active-extension (NAE)	Eliminates no-flow areas in a pipe connection on a reactor, in a T-piece or flow-through cell. Can also be used to bridge gaps in open channel applications. Sizes on request.

