MARIMEX[®] ViscoScope[®] VA-100

In-line Process viscometer

- Reproducible measurement of viscosity in real time
- Optimisation of production / quality assurance
- Maintenance-free measuring instrument
- Dead space free installation (CIP / SIP capable)
- Cost-effective
- Chemicals, petrochemicals, food, pharmaceuticals and cosmetics



Technical data

Properties

C: Cylinder B: sphere
C: Ø 32 x 145 mm B: Ø 32 x 120 mm
1.4571 / 1.4404 (316 Ti / 316L)
IP65
NPT thread Special flange Varivent® Tri-Clamp
Max. 1,000 metres
C: ± 0,3% or ±1 Digit B: ±0,5& or ± 1 Digit
\pm 2% or \pm 1 Digit
II 1/2G Ex ia IIC T6T3 Ga/Gb
-10+130 °C
Vacuum up to 64 bar, depending on installation
Position-independent in tanks, pipelines, flow cells
up to 5 m/s, depending on installation
C: 0,12.500 B: 1025.000

General description

The ViscoScope® sensor VA-100 is a maintenance-free process viscometer for precise, reproducible and reliable realtime measurement of the dynamic viscosity of liquids. A Pt100 integrated in the sensor simultaneously measures the process temperature. The ViscoScope® system is factory calibrated with certified Newton calibration oils.

The sensor is available in two probe versions. There is a choice of NPT threads and Special flange or hygienic fittings. Standardised or specially developed flow cells also allow installations in pipelines with small cross-sections.

Functionality

The ViscoScope® sensor probe is fully welded so that no moving parts come into contact with the fluid being measured. Electric coils excite the sensor at its resonant frequency to oscillate in low amplitude torsion. There is a fast PID controller in the transmitter which keeps the amplitude constant, i.e. the higher the viscosity becomes, the greater the voltage, which is a measure of the dynamic viscosity in mPa-s x g/cm3 ($\eta \times \rho$). The low amplitude at resonance frequency prevents material fatigue so that no parts can misalign or wear out.

Fluid.iO Sensor + Control GmbH & Co. KG An der Hartbrücke 6

D-64625 Bensheim

Sales and consulting

Phone: +49-6251-8462-0
Email: info@fluidio.de

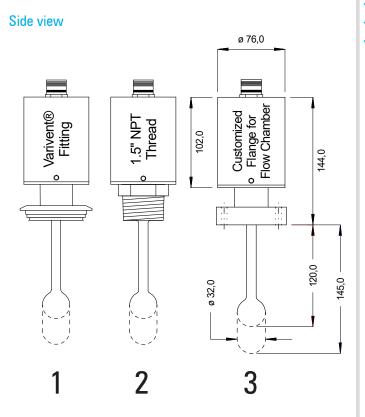


01 01 01

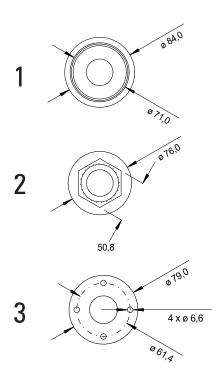
MARIMEX[®] ViscoScope[®] VA-100

Dimensional Drawing

Dimensioning in mm



Front view



Ç»

Fluid.iO Sensor + Control GmbH & Co. KG 🔁 An der Hartbrücke 6 D-64625 Bensheim

sales and consulting

Phone: +49-6251-8462-0 info@fluidio.de \bigcirc Email:



Applications

- in continuous and batch processes \checkmark
- Shortening and optimising mixing processes ✓
- Adding solvents to coating systems \checkmark
- Controlling the medium temperature for constant viscosity

model code

