ViscoScope[®] VA-100

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

Properties

Sensor type

Probe dimensions

 Chemicals, petrochemicals, food, pharmaceuticals and cosmetics

Technical data

C: Cylinder

B: sphere

C: Ø 32 x 145 mm

B: Ø 32 x 120 mm



Ex Approval Condition monitoring

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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.

Applications

Material 1.4571 / 1.4404 (316 Ti / 316L) Protection class IP65 Process connection NPT thread | Special flange | Varivent® | Tri-Clamp Max. 1,000 metres Cable length Reproducibility of the C: \pm 0,3% or \pm 1 Digit display value **B**: $\pm 0,58$ or ± 1 Digit Accuracy of the display $\pm 2\%$ or ± 1 Digit value II 1/2G Ex ia IIC T6...T3 Ga/Gb Ex-area (optional) **Operating conditions** Process temperature -10...+130 °C Pressure Vacuum up to 64 bar, depending on installation Installation Position-independent in tanks, pipelines, flow cells up to 5 m/s, depending on Flow velocity installation Measuring ranges

Viscosity range in mPa·s x g/cm³

B: 10...25.000

C: 0,1...2.500

General description

Marimex[®] a brand of E.L.B. Füllstandsgeräte Bundschuh GmbH & Co. KG An der Hartbrücke 6 D-64625 Bensheim

Distribution and advice

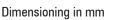
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Email: info@marimex.de

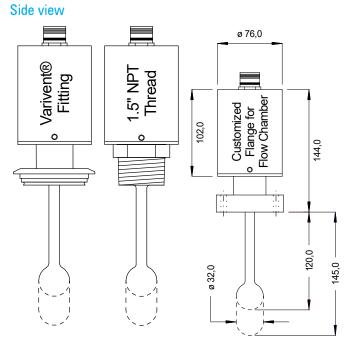


ViscoScope[®] VA-100

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 \checkmark Shortening and optimising mixing processes

 \checkmark Adding solvents to coating systems

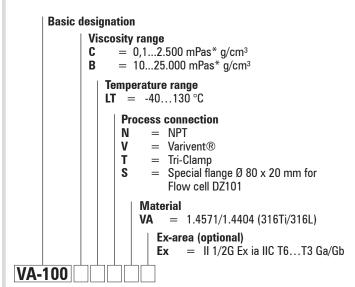
in continuous and batch processes

Controlling the medium temperature for constant viscosity

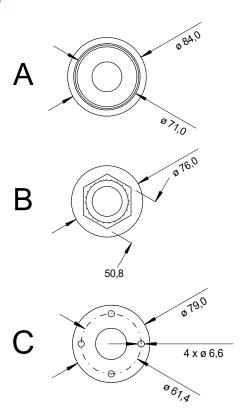
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model code



Front view



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