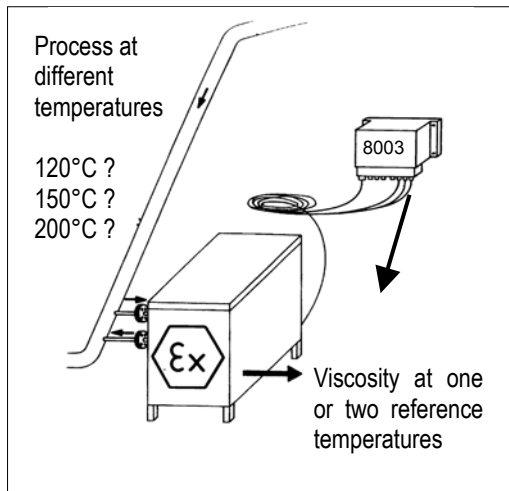


On-line viscosity
measurement of any fluid
at a required constant
temperature

Principle

The fluid is permanently drawn from the process, brought at the required temperature, its viscosity measured, then re-injected in the main line.



Advantages

- **Short response time:**
2 to 5 min
- **No extra installation**
- **Insignificant maintenance:**
½ day / year
- **Small size**
- **Reliable and accurate**
- **Usual power:**
mains and pressurized air
- **Optional density measurement**



DESCRIPTION

THERMOSET MIVI is composed of 2 main parts:

- 1) **One compact cell**, stainless steel made, where the product flows, reaches the required temperature, then viscosity measured:
 - o Process connection by means of standard flanges DN 10 PN 25
 - o Flowing volume: 0.150 l – Flow rate: 20 l / h
 - o Link to the hereafter electronic cabinet by means of one special cable (viscosity and temperature signals) and by usual cables (monitoring circuits). Any length available.
 - o Every electrical part Exproof approved
 - o Outside installation
 - o Others measurements in option (density, refractive index...)
- 2) **One electronic cabinet 8003**, to be installed in safe area, or control room, monitoring the cell circuits, controlling the fluid temperature, processing viscosity and temperature information, providing their digital display and their corresponding analog and digital outputs. Reprogrammable with memory card or configuration software.

TECHNICAL CHARACTERISTICS

- 1) Exproof classification for the cell parts (ATEX agreement)
- 2) Viscosity range (at reference temperature):
1 – 100 mPa.s ; 10 – 1000 mPa.s ; 100 – 10 000 mPa.s
- 3) Repeatability: ±0.5% full range
- 4) Response time: 2 to 5 min
- 5) Delivered information:
 - o Digital display for viscosity and temperature
 - o Viscosity and temperature outputs: 0/4–20 mA DC on 500 ohms galvanically isolated
 - o RS 485 link
 - o Viscosity and temperature alarms
 - o Other possibilities on request. Consult us.
- 6) Required power: 230 Vac, single phase, 50-60 Hz, 1 kVA
+ pressurized air, 7 bars, 0.5 m³/h
- 7) Operating conditions
 - o Maximal temperature at the cell: 200 °C
 - o Reference temperature: according to the requirement
 - o Maximal inlet pressure: 16 bars
 - o Maximal outlet pressure: 40 to 120 bars according to product viscosity



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