



POLYMER APPLICATIONS

Up to 200°C in safe area

Adhesives

Glues

Formaldehyde resins

Acrylic fibers

Polycarbonate

Silicone

SIMILAR APPLICATION

Colloidal silica



Over **1000**
MIVI viscometers
 used in polymers
 processes

Batch reaction

Inline monitoring

Concentration or dilution
 follow up

THE MOST COST-EFFECTIVE SOLUTION TO OPTIMIZE YOUR POLYMER PROCESS IN SAFE AREA

For applications up to 200°C*

Polymerization reactions are complex processes involving reaction mechanisms often difficult to control. Most resins and specialty polymers are made using batch polymerization with unique recipes that require constant adaptation of manufacturing parameters.

Common problems encountered in batch polymerization include:

- **PRODUCTION CAPACITY LIMITED BY BATCH TIME**
- Variations and evolution of reactions controlled by laboratory measurements which are **COSTLY** and **TIME CONSUMING**
- Unknown evolution between laboratory controls which affect **FINAL PRODUCT QUALITY** and **END-POINT DETECTION**
- Lack of control that can lead to hardening of polymer with **LOSS OF PRODUCTION** and great **MATERIAL DAMAGE**

POLYMER BEST SELLER SOLUTION – in safe area

- +** Optimization of **cycle time** to increase production
- +** Better **end-point** detection and easier reaction monitoring
- +** Correct viscosity and reaction parameters from **beginning to end of batch**
- +** Prevention of **mass solidification**
- +** Reduction of **costly and time consuming** laboratory sampling
- +** A single sensor able to provide **high level of sensitivity** over a **very large measurement range**



Key characteristics:

Good sensitivity at low viscosity	Precise on low and high viscosity
High full scale range	Robust and reliable
No wearing parts, very low maintenance	Measures in any positions

*Other configuration available on demand

FEATURES & SPECIFICATIONS



MIVI process viscometer

Typical Full Scale Range: 1000 cP*

Temperature: up to 200°C*

Pressure: up to 60 bar*

Material: 316L SS*

Ingress Protection: IP67

With 316L SS Weld-mount flange



Cf technical datasheet 134
 *Other available on demand



9200 transmitter

Viscosity transmitter

2-line alphanumeric backlighting LCD screen

1 x 4-20 mA output*

Operating temperature: 0-40°C

Panel-mount type

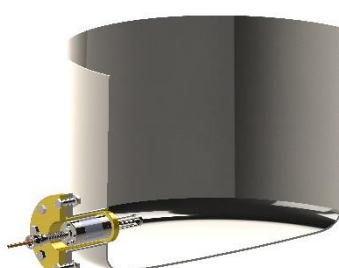
Cf technical datasheet 256

MAIN MOUNTINGS

Cf technical datasheet 319 & 320



On reactor wall



On immersion tube



On a bypass loop

**Any questions or specific needs regarding other viscosity solutions?
 Let us help you find the best match for your process by **contacting us** at:
instruments@sofraser.com**