

Why Measure Viscosity In-Line?

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Practical application of viscosity measurement data often leads to the need for in-process control of viscosity. The installation of viscosity control equipment on a process can provide a level of control achievable by no other means. Variations in viscosity are detected and corrected instantly before they can negatively affect product quality. Real time viscosity control can reduce downtime and material waste by ensuring that the process is operating within its specified viscosity parameters. In many cases, the savings from increased efficiency can pay back the cost of the viscometer in only a few months.

Why Choose Brookfield?

Brookfield builds its Process Control Viscometers to the same high standards of performance and value as its Laboratory Viscometers. Particular attention has been devoted to making these instruments rugged and easy to maintain for long service in demanding industrial environments.



AST-100

Advanced sensor technology for direct in-line viscosity measurement (p60)



TT-100

For in-line system applications requiring pipeline mounting (p62)



TT-200

For in-line system applications requiring flange mounting (p64)



TT-220 Probe

For both solvent and water based products (p65)



Viscosel

For systems open to the atmosphere (p66)

Questions to Consider

1. What is the viscosity range of your material?
2. Is your material Newtonian, Dilatant, Non-Newtonian, Thixotropic or Plastic?
3. What is the minimum, maximum and average pressure requirement of your application?
4. What is the minimum, maximum and average temperature of your application?
5. What is the minimum, maximum and average flow rate of your application?
6. Where in production would you like the viscometer: in-line, on the top of the tank or on the side of the tank?

7. What electrical code requirements do you have:

NEMA 1 (general purpose—indoor)
NEMA 4 (watertight/dust tight for indoor/outdoor use)
NEMA 7 (explosion proof—Class 1, Div. 1&2, Group D)
ATEX (explosion proof—Code: EE x d 11B T6)

The above parameters may eliminate some of the instrument models because, for example, the viscosity is higher than the range of the instrument or outside of the pressure rating of the instrument. In many cases, more than one instrument may be applicable.

Please allow us to assist you in choosing the best viscosity control system for your application.