



## PV-100 Viscosity Control System

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Model PV100 is a user-friendly process viscosity control system that requires little operator involvement. While optimizing the product quality through automatic control options it helps reduce production and operating costs. The PV100 Process Viscometer (rotational principle) is especially suited for the highly sensitive control and regulation of medium and high viscosity materials.



### FEATURES AND BENEFITS

- Continuous measurement eliminates need for "Grab" sampling and allows for prediction and constant control of final product properties
- Measurements under extreme process conditions which require high efforts to be realized in laboratory testing
- Leakage-free operation by torque transmission via magnet coupling
- Concentric cylinder geometry provides viscosity measurements at defined shear conditions
- Defined shear means agreement with Brookfield Laboratory measurements at equivalent shear rates
- Availability of 8 different speed steps for selectable shear rates
- Stand-alone instrument operating without necessary external electronics
- Direct in-tank measurement or various in-line installations
- A continuous 4-20 mA output signal provides a variety of display and control capabilities
- Capable of a wide range of pressures, temperatures, viscosities, flow and shear rates

### SPECIFICATIONS

- Range: 2 to 10,000,000 mPas (cP)
- Shear Rates: 0.001 to 1,000 s<sup>-1</sup>
- Shear Stress: 2 to 100 Pa
- Temperature: -25°C to +300°C
- Maximum Pressure: 64 bar (930 psi)
- Input Power: 24 V DC
- Output: 4 - 20 mA

## OPTIONS

- Flow and immersion probes with magnet coupling resistant to pressure and temperature
- Immersion probes for containers at standard lengths 150 mm, 250 mm, 1000 mm and 1500 mm, or with special dimensions on request
- Mounts in-line supported by flow chambers with customized flange connections; special flow chambers for small pipe diameters
- Temperature compensation of viscosity reading