

BROOKFIELD PROCESS VISCOMETERS

# PV 100 Probe Viscometer



ATEX Approved

Concentric cylinders provide viscosity measurement at a defined shear.

**Model PV 100 is a user-friendly process viscosity control system that requires little operator involvement.**

- ▶ Continuous, quick, linear response
- ▶ Defined shear measurement
- ▶ Continuous linear 4-20mA output
- ▶ Direct in-tank measurement
- ▶ Optimizes product quality through automatic control
- ▶ Helps reduce production and operating costs
- ▶ Optional Controller

## APPLICATIONS

Adhesive	Paper Coatings
Chemicals	Petroleum Products
Coatings	Pharmaceutical
Cosmetics	Polymers
Dairy	Printing
Drilling Fluids	Resins
Epoxies	Sealants
Fruit Juice	Solvents
Gels	Starches
Oil	Varnish
Paints	

# PV 100

## Probe Viscometer

*The PV 100 Process Viscometer (rotational principle) is especially suited for the highly sensitive control and regulation of medium and high viscosity materials.*



**Flanged  
Mounting  
Option**

### OPTIONS INCLUDE:

- ▶ Immersion probe and flow probe with magnet coupling and resistant to pressure up to 6.4MPa (930 psi)
- ▶ Immersion probes for containers for standard lengths:
  - 150 mm
  - 250 mm
  - 1000 mm
  - 1500 mm
  - special lengths may be available on request
- ▶ Treatment of bearings for abrasive materials

### ELECTRONIC CONTROLLER UNITS FOR PV 100

- ▶ Range of viscosity, shear rate (can be programmed for 3 stages) and limiting values pre-set
- ▶ Temperature compensation of viscosity reading
- ▶ Fault detection
- ▶ Trend indication

### SPECIFICATIONS

Viscosity:	2 to $1 \times 10^7$ mPa•s
Shear Rate:	$1 \times 10^{-3}$ to $1 \times 10^3$ s <sup>-1</sup>
Shear Stress:	2-100 Pa
Temperature:	-25° to +300° C
Accuracy:	±2.5% of range in use
Power Supply:	24VDC
Maximum Pressure:	6.4 MPa (930 psi)
Output Signal:	4-20 mA
Special Accessories:	PT100 temperature sensor, switching power-supply, display, printer regulator, valves