

BROOKFIELD PROCESS VISCOMETERS

# KV 100

## Capillary Viscometer



**Model KV100 is a user-friendly capillary viscometer.**

- ▶ Continuous flow chamber in stainless steel or synthetic materials
- ▶ Display device for measuring data
- ▶ PT100 temperature sensor
- ▶ Software with temperature correction of viscosity

### APPLICATIONS

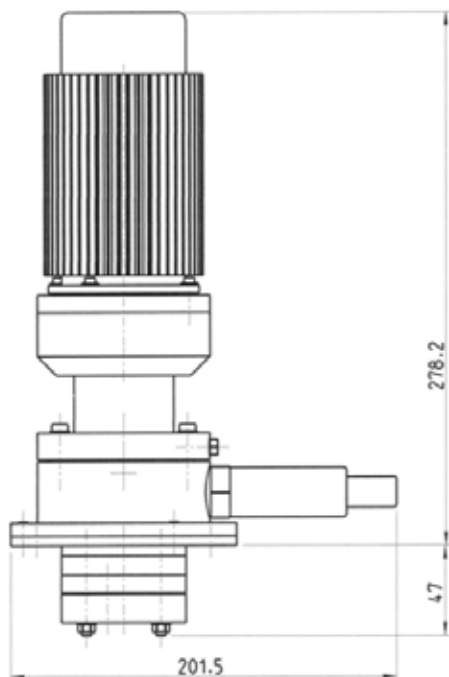
Adhesives	Lubricants
Dairy Products	Oils
Detergent	Polymers
Emulsions	Resins
Glues Laquers	Silicone

### SPECIAL ACCESSORIES

- ▶ Continuous flow chamber (stainless steel or synthetic materials)
- ▶ Temperature sensor PT100 (optional with transducer)
- ▶ Display device for measuring data
- ▶ Software with temperature correction of viscosity

# KV 100

## Capillary Viscometer



### Viscometer Flange

Flange Diameter: 118mm

Screw-hole Circle Diameter: 105 mm

Screws: 6xM6

### PRINCIPLE OF OPERATION

The pressure decrease between the two ends of the measuring capillary, which is proportional to viscosity, is determined by two pressure sensors or directly measured by differential pressure transducer. Pressure difference is transformed into an electric standard signal which can be used for display and as a control signal.

The inlet of the aspiration tube is located in a continuous flow chamber through which the medium can flow in a main or partial stress (bypass) from low up to medium process pressures.

Process Viscometers can be completed with an electronic indicator for more functions of instrument control and signal processing as well as temperature adjustment of viscosity.

### SPECIFICATIONS

	<u>KV100-F</u>	<u>KV100-25 or KV100-EX</u>
Viscosity:	0 to 500 mPa•s / 0 to 2000 mPa•s	0 to 3 mPa•s / 0 to 10 mPa•s / 0 to 100 mPa•s 0 to 500 mPa•s / 0 to 2000 mPa•s
Accuracy:	±1% of maximum viscosity value	±1% of maximum viscosity value
Pressure Range:	0 to 0.25 MPa	0 to 2.5 MPa
Temperature:	-25°C to +150°C	-25°C to +150°C
Ambient Temperature:	-25° to +50°C	-25°C to +50°C
Protection Class:	IP 54	IP 54
Explosion-Proof	No	KV100-Ex
Power Supply:	230VAC/50 or 60 Hz	230VAC/50 or 60 Hz
Output Signal:	0 to 10 V	4-20 mA

