

BROOKFIELD PROCESS VISCOMETERS

TT-100

for In-line System Applications

Concentric cylinder geometry provides viscosity measurements at defined shear conditions

Constant or variable speed motor

Torque sensor produces 4-20 mA linear signal

Mounts in line supported by connections

The TT-100 continuously measures viscosity in-line

- ▶ Continuous measurement eliminates need for "grab" sampling
- ▶ Capable of a wide range of pressures, temperatures, viscosities, flow and shear rates
- ▶ Accurate, repeatable measurement
- ▶ Defined shear rate measurements correlate to Brookfield laboratory instruments
- ▶ For American Petroleum Institute (API) test applications can be operated at shear rates of 511 sec⁻¹

ISO 9001:2000 CERTIFIED
BROOKFIELD



ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches



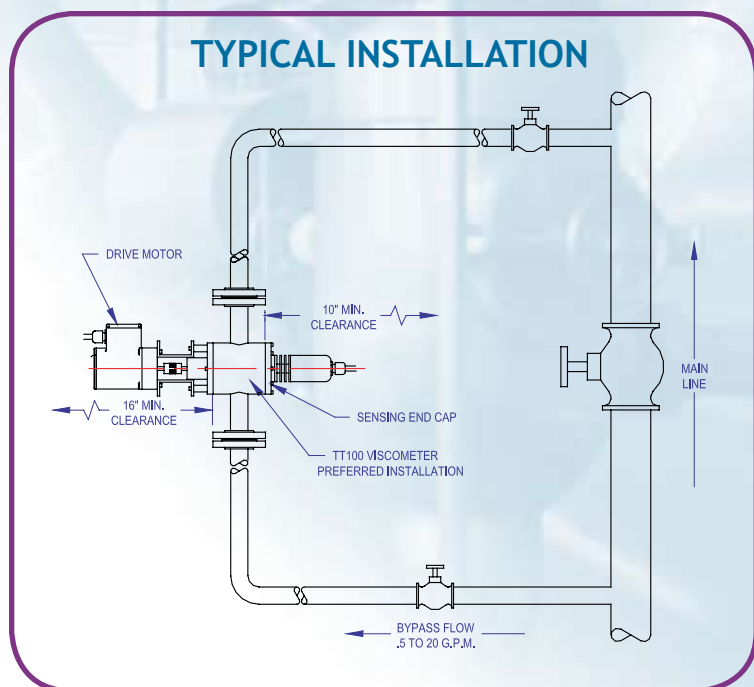
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TT-100

TYPICAL INSTALLATION



STANDARD SPECIFICATIONS

Viscosity:	10 to 500,000 cP
Shear Rates:	10 to 1,000 sec ⁻¹
Repeatability:	± 0.5% of span
Pressure Range:	200 psig (maximum)
Temperature:	-40° to 300° F
Maximum Flow Rate:	20 gpm (maximum)
Output Signal:	4-20 mA
Power Requirement:	115 or 230 volt, 50 or 60 Hz, 100 W
Wetted Parts:	316 stainless steel 1" NPT (female) inlet & outlet
Motor:	Single-speed, synchronous
Electrical Code:	NEMA 4

Optional configurations include:

- 500 psi, 500° F construction
- Explosion-proof, Class 1,
Divisions 1&2, Group D (FM approved)
- Inlet & outlet fittings up to 2" threaded or flanged
(consult factory for other connection options)
- Variable speed motor
- 12 or 24 volt DC
- Special viscosity ranges or shear rates
- Sanitary 3A approved Model STT-100

DATA DISPLAYED

APPLICATIONS

MODEL	VISCOSITY RANGE cP(mPa•s)		SPEEDS		SPINDLES (Included)	DATA DISPLAYED						APPLICATIONS																						
	Min.	Max.	RPM	Number of Increments		Signal Output		Torque % cP (centipoise)	MPa•s (millipascal seconds)	Shear Rate	Shear Stress	Temperature °F °C	Adhesives, solvent base	Chemicals	Juices, Dairy Products	Oils, Petroleum Products	Paints, Inks, Coatings	Pharmaceuticals	Polymers	Adhesives, waxes, hot melts	Ceramic Slurries	Creams, Cosmetics	Food Products	Resins	Stimulation Fluids	Paper Coatings	Starches	Caulking Compounds	Epoxies	Gels, Sealants	Fuel Oil	Molasses, Peanut Butter	Pastes, Thick Film	Putty, Roofing Compounds
TT-100	10	500K	AS	1	N/A	Analog	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TT-100VS	1	500K	.1-1K	10K	N/A	Analog	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

K = 1 thousand

AS = Application Specific

O = optional

Note: 1. Specify voltage and frequency when ordering.

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