

# DV3T™ Rheometer

the all-in-one tool for measuring viscosity and yield stress

## 7-inch Full Color

### Touch Screen Display

- New User Interface
- Enhanced Controls
- Real Time Graphing
- Supports Multiple Languages

### Displayed Info:

- Viscosity (cP or mPa\*s)
- Temperature (°C or °F)
- Shear Rate/Stress
- % Torque
- Speed/Spindle
- Step Program Status
- Math Model Calculations

### Built-in math models

for data analysis in stand-alone mode. E.g. Casson, Bingham, Power Law, Thix Index

### Enhanced Security

- Customizable User Access
- Date and Time Stamp File
- Password Access
- Portable Log-in Settings

### Built-In Options

- Math Modeling
- Temperature Control
- Yield Tests
- Programmable QC Limits/Alarms

**Analyze characteristics** such as yield stress, flow curves (mixing, pumping, spraying), leveling and recovery

**USB PC Interface** provides optional computer control and automatic data collection capability

**Convenient Bubble Level**

**Internal Data Storage: 150 MB**



### Integrated Temperature Control

with connection to Brookfield TC series Baths and AP/SD Controllers or Brookfield Thermosel System.

### Stand-alone programming

or download custom test programs with PG Flash Software.

### Built-in RTD Temperature Probe

**Accuracy: ±1.0% of range**  
- Displayed with test data

**Repeatability: ±0.2%**

## What's Included?

### Instrument

6 spindles (RV/HA/HB) (p45)

or 4 spindles (LV) (p45)

PG Flash Software ▶

RTD Temperature Probe

Spindle Guard Leg\*

Lab Stand (Model G) (p50)

Convenience Pack

USB Flash Drive, Stylus, Cleaning Cloth, Screen Protectors

Carrying Case

\*Not applicable to HA or HB torque models

## Optional Accessories

RheocalcT Software ▶

Label Printer (p51)

Vane Spindles (p43 & 48)

Ball Bearing Suspension (p50)

Viscosity Standards (p52)

RV/HA/HB-1 Spindle (p45)

EZ-Lock Spindle Coupling System (p50)

Quick Action Lab Stand (p50)

Temperature Bath (p33-35)

Small Sample Adapter (p38)

UL Adapter (p40)

Thermosel (p36)

Helipath Stand with T-bar Spindles (p42)

Spiral Adapter (p44)

DIN Adapter (p44)

Quick Connect/Extension Links (p49)

MODEL	VISCOSITY RANGE cP(mPa*s)		SPEEDS (2600 available)	
	Min.	Max.	RPM	Number of Increments
DV3TLV	1†	6M	.01-250	2.6K
DV3TRV	100††	40M	.01-250	2.6K
DV3THA	200††	80M	.01-250	2.6K
DV3THB	800††	320M	.01-250	2.6K
DV3T5xHB	4K	1.6B	.01-250	2.6K

† 1 cP achieved with UL Adapter accessory. 15 cP on LV with standard spindles.

†† Minimum viscosity is achieved with optional RV/HA/HB-1 spindle.

B = 1 billion M = 1 million K = 1 thousand cP = Centipoise

mPa\*s = Millipascal\*seconds

## PG Flash Software Included

PROGRAM GENERATOR SOFTWARE FOR CUSTOMIZING TEST CRITERIA FOR ROUTINE PRODUCT QC

This exclusive Brookfield software allows you to create repeatable custom tests on your PC! Once the program (up to 25 steps) is created, it can be downloaded to a supplied USB flash drive and then uploaded to any DV3T Viscometer.



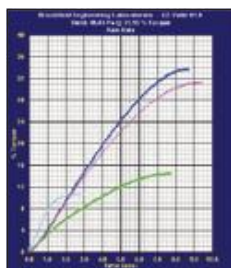
*PG Flash allows users to create repeatable custom tests with all of the built-in options on the DV3T plus the addition of multiple program lines (up to 25 steps). Create the program on the PC and download to a USB Flash Drive. Upload the program from the USB Flash Drive to the DV3T.*

## RheocalcT Software Optional (see p14 for more details)

GET TOTAL CONTROL OF YOUR INSTRUMENT AND TEST PARAMETERS

Automatically control the instrument and collect data with RheocalcT running on a dedicated PC with USB interface. RheocalcT can analyze data, generate multiple plot overlays, print tabular data, run math models and perform other time-saving routines. Up to five comparison data sets can be plotted and saved. Other features include:

- Wizards to guide you through the creation of common tests
- Yield Testing, alone, or in conjunction with other viscosity measurements
- Secure 21CFR features including multiple logins, access levels, digital signatures, and data storage in a password-protected database
- Looping functions for repetitive tasks
- Averaging of collected data by individual step or whole test
- Math models: Bingham, Casson, Power Law, Herschel-Bulkley
- Export data to Excel® file format
- Create data reports in PDF format



TORQUE RANGE	SHEAR STRESS RANGE	
	Pa	dyne/cm <sup>2</sup>
<b>LV</b>	Contact Brookfield	
<b>RV</b>	.5-100	5-1K
<b>HA</b>	1-200	10-2K
<b>HB</b>	4-800	40-8K
<b>5xHB</b>	20-4K	200-40K

*Yield tests can be performed with the use of optional vane spindles.*



## DV3TCP

The DV3T is available in a Wells/Brookfield Cone & Plate Version  
Must be ordered when instrument is first purchased. (p20)



## DV3T with Optional Vane Spindles

DV3T Rheometers have a built-in yield stress measurement capability that determines the stress required to initiate flow of slow moving or paste materials. Vane spindles can be immersed into a material without destroying the underlying structures that contribute to yield. The DV3T offers test parameters that create a specific yield test protocol that can be utilized for QC testing or research.

## DV3T Extra

Includes our ball bearing suspension system, EZ-Lock Spindle Coupling System, Quick Action Lab Stand and FREE RheocalcT software.