

DV1™ Viscometer

The only viscometer in its class to offer continuous sensing and data display at such a low price!

User Configuration Display

- User choice of most important parameter is displayed in larger font size
- Choice of static or scrolling display mode

Displayed Info:

- Viscosity (cP, P, mPa•s, Pa•s)
- % Torque
- Speed/Spindle
- Temperature (°C or °F)
if RTD Temperature Probe is purchased

Choice of Multiple Languages

English, French, German, Portuguese, Russian, Spanish

USB PC interface for use with optional Wingather SQ Software

18 speeds

provide great range capability

Optional RTD Temperature Probe DVP-94Y

Direct access

to time measurement function (time to torque, time to temperature, time to stop)

Accuracy:

±1.0% of range

Repeatability: ±0.2%

Temperature off-set

capability to ±5°C

Automatic Range Calculation:

- Full Scale Range (FSR) at 100%
- Maximum viscosity measured with Spindle/Speed combination

Simplified User interface

for more direct access to features

Printing to Dymo® Printer Capability

Stylish Model G Base



What's Included?

Instrument

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

or 4 spindles (LV) (p45)

Spindle Guard Leg*

Lab Stand (Model G) (p50)

Carrying Case

*Not applicable to HA or HB torque models

Optional Accessories

Wingather SQ Software ▶

RTD Temperature Probe

Ball Bearing Suspension (RV/HA/HB) (p50)

EZ-Lock Spindle Coupling System (p50)

Viscosity Standards (p52)

Protective Keypad Covers (p51)

Dymo Printer (p51)

RV/HA/HB-1 Spindle (p45)

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)

Vane Spindles (p43 & 48)

VISCOSITY RANGE cP(mPa•s)

SPEEDS

MODEL	Min.	Max.	RPM	Number of Increments
DV1MLV	1*	2M	.3-100	18
DV1MRV	100	13M	.3-100	18
DV1MHA	200	26M	.3-100	18
DV1MHB	800	104M	.3-100	18

* Minimum ranges can be extended to as low as 1 cP with the use of Brookfield Accessories

** Standard torque range values

M = 1 million cP = Centipoise mPa•s = Millipascal•seconds

Wingather SQ Software Optional (see p14 for more details)
 DATA COLLECTION SOFTWARE TO COLLECT, ANALYZE AND RECORD TEST DATA

Wingather software provides an easy way to gather data and plot graphs while creating permanent test records.

Important features and benefits enhance operator versatility in performing viscosity tests:

- Multiple test modes to enhance data collection
- Follow up events including analysis through math models which calculate yield stress and plastic index
- Automatic sample numbering
- Data graphing of up to 20 data sets concurrently
- Data export to spread sheet format (Excel®)



The DV1 Viscometer communicates to the PC through USB A port. The interface cable is supplied with Wingather SQ Software. Successful communication is indicated by a green light beside the port designation.

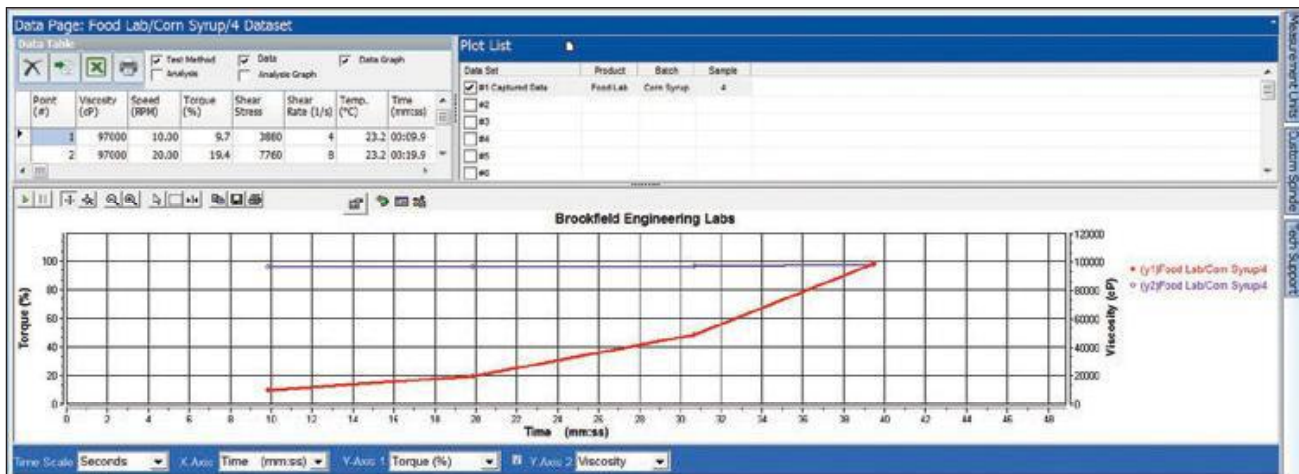


DV1CP

The DV1 is available in a Wells/Brookfield Cone & Plate Version
 Must be ordered when instrument is first purchased. (p20)



Dashboard shows current test information.



Data table and graph shows test record at a glance.

Excel® is a registered trademark of Microsoft Corporation in the United States and/or other countries.

Do You Need Software?

Which instrument/software combination is best for you?

Using software with your Brookfield DV1, DV2T and DV3T has many advantages. Software enhances the capabilities of your instrument and allows for a more productive environment as automated tasks reduce test time and operator errors. Which instrument/software combination is best for you? This decision can easily be made by determining which features are the most important to your operation and seeing which instrument has the capabilities that best suits your overall requirements.

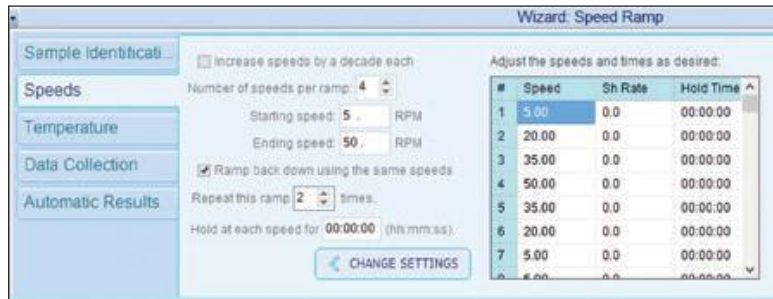
RheocalcT Test Wizards

Like wizards used in every day office software programs, RheocalcT test wizards are there to reduce the time and effort needed to set up or run a test. RheocalcT test wizards run a thix index test (calculate the ratio of viscosity at low speed vs. viscosity at a higher speed) or control the instrument to automatically reduce speed at preset torque values (curing test). Some other test methods that can easily be created with the RheocalcT test wizard include:

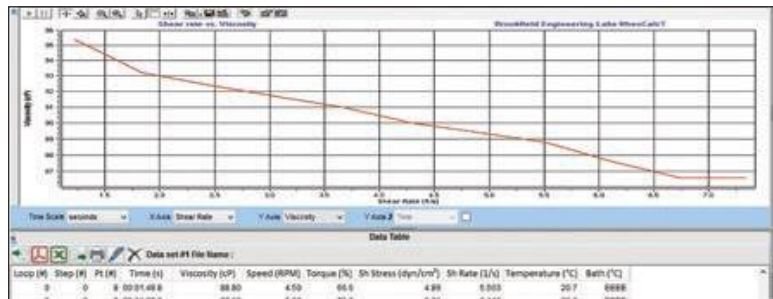
- Time to stop
- Time to torque
- Speed ramp / shear rate ramp
- Temperature profiling
- Yield stress test (DV3T)

FEATURES & BENEFITS available with software	RheocalcT Wingather SQ		
	DV3T	DV2T	DV1
Connect instrument to PC with USB port	•	•	•
Plot live data with graphical view of viscosity during tests	•	•	•
Import legacy templates and test data	•	•	•
Export data to Excel-compatible file format	•	•	•
Create data reports in .pdf file format	•	•	•
Create tests for various conditions using built-in test methods	•	•	•
Run yield stress test with EZ-Yield program	•		
Compare multiple test results on a single graph	•	•	•
Analysis through math models (yield stress and plastic index)	•	•	•
Analysis through math models (Bingham, Casson, Power Law, Herschel-Bulkley)*	•	•	•
Button click to access up to five stored programs			•
Store and easily access up to 10 programs	•	•	
Transfer collected data to a PC through thumb drive	•	•	•
Customized data graphs	•	•	•
Generate multiple plot overlays and print tabular data	•	•	
Test wizard for quick and easy test method creation	•	•	
Security features for user access and data integrity (21CFR P11)	•	•	
Ability to control Brookfield Temperature Bath and ThermoWell	•	•	
Looping function for repetitive tasks	•	•	
Data collection averaging by individual steps or entire test	•		

*Math models feature is available in DV3T with or without RheocalcT software.



Test Condition Entry Screen for Speed Test Wizard



Example of RheocalcT Speed Test Results