

# NEW DV-I Prime Viscometer

The only viscometer in its class to offer continuous sensing and data display!

**New** Sleek look  
with simple-to-use  
keypad

#### Displayed info:

- Viscosity (cP or mPa-s)
- % Torque
- Speed/Spindle
- Temperature (°C or °F)  
if optional RTD Temperature  
Probe is installed

**New** RS-232 PC interface  
for use with optional  
Wingather Software

Analog outputs  
for recording torque  
and temperature  
(optional)

18 speeds  
provide great  
range capability

**New** Direct access  
to time measurement function  
(time to torque, time to stop)

**New** Output connection to printer

Displays under/over range conditions

#### Auto Range Showing

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

#### Scroll Keys

for Simple Selection  
of Speed & Spindle

Optional RTD Temperature Probe DVP-94Y  
Must be ordered when instrument is first purchased.

**New** Temperature off-set  
capability to  $\pm 5^{\circ}\text{C}$

Accuracy:  $\pm 1.0\%$  of range  
Repeatability:  $\pm 0.2\%$



## BROOKFIELD VISCOMETERS

## What's Included?

Instrument

6 spindles (RV/HA/HB) (p39)

or 4 spindles (LV) (p39)

Spindle Guard Leg\*

Lab Stand (Model S)

Carrying Case

\*Not applicable to HA or HB versions

## Optional Accessories

RTD Temperature Probe

NEW Ball Bearing Suspension (RV/HA/HB) (p3)

Viscosity Standards (p44)

RV/HA/HB-1 Spindle (p39)

Quick Action Lab Stand (p3)

Temperature Bath (p27)

Small Sample Adapter (p32)

UL Adapter (p34)

Thermosel (p30)

Helipath Stand with T-bar Spindles (p36)

Spiral Adapter (p38)

DIN Adapter (p38)

Quick Connect/Extension Links (p43)

Vane Spindles (p37 & 42)

All page references to 2007 Brookfield catalog



## DV-I Prime CP

The DV-I Prime is available in a Wells/Brookfield Cone & Plate Version (p12)

## Wingather Software Optional

Data collection software to collect, analyze and record test data

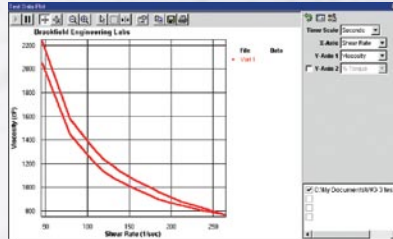
Wingather software provides an easy way to gather data and plot graphs while creating permanent test records. Data can be saved in the program or exported to Excel.

–Automates data collection to save time

–Reduces operator error

–Math modeling for yield stress calculations, plastic index

–Plot up to five data sets for comparisons



Viscosity	Speed	% Torque	Shear Stress	Shear Rate	Temperature	Time Interval	Date/Time
1000.10	1.00	38.9	1.40	1.79	34.8	00:00.0	01/12/2007 12:16:17
400.29	1.50	29.6	1.33	1.84	34.1	00:00.3	01/12/2007 12:16:44
604.32	2.00	24.3	1.34	2.30	34.0	00:04.6	01/12/2007 12:17:01
538.84	2.50	19.7	1.31	2.73	33.6	00:09.0	01/12/2007 12:17:40
437.64	3.00	16.7	1.43	3.07	33.3	00:13.3	01/12/2007 12:18:00
395.63	3.50	14.7	1.49	3.43	33.0	00:17.7	01/12/2007 12:18:10
344.28	4.00	14.3	1.60	3.74	33.4	00:22.0	01/12/2007 12:18:31
119.74	10.00	30.0	2.37	13.00	33.3	00:00.0	01/12/2007 12:18:30
110.76	10.00	32.3	2.39	13.40	33.9	00:04.4	01/12/2007 12:18:44
805.27	20.00	59.9	2.72	25.00	33.1	00:02.0	01/12/2007 12:18:30
79.32	30.00	47.3	3.07	30.30	33.0	00:09.3	01/12/2007 12:19:00
55.34	30.00	79.0	3.30	44.30	32.9	00:05.9	01/12/2007 12:19:10
49.97	40.00	83.3	3.47	57.40	32.9	00:06.6	01/12/2007 12:19:24

## Model Selection Table Brookfield DV-I Prime Viscometers

Viscosity	**MODEL	VISCOSITY RANGE cP(mPa-s)		SPEEDS		
		Min.	Max.	RPM	Number of Increments	Number of Spindles Supplied
Low	LVDV-IP	1*	2M	.3-100	18	4
Medium	RVDV-IP	100	13M	.3-100	18	6
High	HADV-IP	200	26M	.3-100	18	6
High	HBDV-IP	800	104M	.3-100	18	6

\* 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

## Applications

Consider application and viscosity range when selecting model (LV, RV, HA, HB)

### LV SERIES – LOW VISCOSITY

Adhesives (solvent base)  
Biological Fluids  
Chemicals  
Dairy Products  
Inks  
Juices  
Oils / Solvents  
Pharmaceuticals  
Polymer Solutions

### RV SERIES – MEDIUM VISCOSITY

Adhesives (hot melt)  
Asphalt (SHRP)  
Ceramic Slurries  
Food Products  
Gums  
Ointments / Creams  
Paints / Inks / Coatings  
Paper Pulp  
Shampoos / Lotions

### HA/HB SERIES – HIGH VISCOSITY

Caulking Compounds / Putty  
Chocolate  
Epoxyes  
Inks (ballpoint, offset, lithographic)  
Pastes  
Peanut Butter  
Roofing Compounds  
Sealants  
Tars

## Chemicals srl

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