

# Wells/Brookfield Cone & Plate

...for small samples

Determine absolute viscosity of small samples (0.5 – 2.0 mL)

Available in these models

- DV-III Ultra Rheometer
- DV-II+Pro Viscometer
- DV-I+ Viscometer

RTD Temperature Sensor in Sample Cup (Optional) provides direct measurement of sample temperature

Control Sample Temperature using a Brookfield circulating water bath (p27)

Rapid temperature control due to small sample size



Precise shear rates for determining a material's flow curve behavior

Electronic Gap Adjustment™  
-simplified setup  
-accurate  
-easy-to-use

Accuracy: ±1.0% of range

Repeatability: ±0.2%

## Viscosity Range\* cP(mPa·s)

MODEL	Cone Spindle CPE-40 Sample Volume .5mL Shear Rate (sec <sup>-1</sup> ) 7.5N		Cone Spindle CPE-41 Sample Volume 2.0mL Shear Rate (sec <sup>-1</sup> ) 2.0N		Cone Spindle CPE-42 Sample Volume 1.0mL Shear Rate (sec <sup>-1</sup> ) 3.84N		Cone Spindle CPE-51 Sample Volume .5mL Shear Rate (sec <sup>-1</sup> ) 3.84N		Cone Spindle CPE-52 Sample Volume .5mL Shear Rate (sec <sup>-1</sup> ) 2.0N		SPEEDS	
	Viscosity Range	Sample Volume	Viscosity Range	Sample Volume	Viscosity Range	Sample Volume	Viscosity Range	Sample Volume	Viscosity Range	Sample Volume	RPM	Number of Increments
LVDV-IIIUCP	.1 - 3K	.5mL	.5 - 11K	2.0mL	.2 - 6K	1.0mL	2 - 48K	.5mL	3 - 92K	.5mL	.01 - 250	2.6K
LVDV-II+PCP	.2 - 3K	.5mL	.6 - 11K	2.0mL	.3 - 6K	1.0mL	2 - 48K	.5mL	4 - 92K	.5mL	.01 - 200	54
LVDV-I+CP	.3 - 1K	.5mL	1 - 3K	2.0mL	.6 - 2K	1.0mL	5 - 16K	.5mL	9 - 30K	.5mL	0.3 - 100	18
RVDV-IIIUCP	1 - 32K	.5mL	5 - 122K	2.0mL	2 - 64K	1.0mL	20 - 512K	.5mL	39 - 983K	.5mL	.01 - 250	2.6K
RVDV-II+PCP	1.6 - 32K	.5mL	6 - 122K	2.0mL	3 - 64K	1.0mL	25 - 512K	.5mL	49 - 983K	.5mL	.01 - 200	54
RVDV-I+CP	3 - 10K	.5mL	12 - 41K	2.0mL	6 - 21K	1.0mL	51 - 170K	.5mL	98 - 327K	.5mL	0.3 - 100	18
HADV-IIIUCP	2.6 - 65K	.5mL	10 - 245K	2.0mL	5 - 128K	1.0mL	41 - 1M	.5mL	78 - 2M	.5mL	.01 - 250	2.6K
HADV-II+PCP	3 - 65K	.5mL	12 - 245K	2.0mL	6 - 128K	1.0mL	51 - 1M	.5mL	98 - 2M	.5mL	.01 - 200	54
HADV-I+CP	6.6 - 21K	.5mL	24 - 81K	2.0mL	12 - 42K	1.0mL	102 - 341K	.5mL	196 - 655K	.5mL	0.3 - 100	18
HBDV-IIIUCP	10.5 - 261K	.5mL	39 - 982K	2.0mL	20 - 512K	1.0mL	163 - 4M	.5mL	314 - 7.8M	.5mL	.01 - 250	2.6K
HBDV-II+PCP	13 - 261K	.5mL	49 - 982K	2.0mL	25.6 - 512K	1.0mL	204 - 4M	.5mL	393 - 7.8M	.5mL	.01 - 200	54
HBDV-I+CP	26 - 87K	.5mL	98 - 327K	2.0mL	51 - 170K	1.0mL	409 - 1M	.5mL	786 - 2.6M	.5mL	0.3 - 100	18

M = 1 million K = 1 thousand cP = Centipoise mPa·s = Millipascal/seconds mL = Milliliter N = RPM e.g. Spindle CPE-40 7.50 x 10 (rpm) = 75.0 sec<sup>-1</sup>  
\* Dependant upon cone selected.

## What's Included?

Instrument  
 Lab Stand  
 Choice of one Cone Spindle  
 Sample Cup

## Optional Accessories

Embedded Temperature Probe in Sample Cup  
 Luer and Purge fittings  
 NEW Ball Bearing Suspension  
 Additional Cone Spindles  
 Viscosity Standards  
 Circulating Temperature Bath  
 Rheocalc32 Software ▶  
 (DV-III+ Ultra & DV-II+Pro only)  
 Wingather Software (DV-II+Pro only) ▶

## Optional Sample Cup

with luer and purge fittings for introducing and removing test sample while cup remains attached to instrument



Electronic Gap LED's

Vernier Adjustment Ring

Cone Spindle

Cup  
 Optional Embedded Temperature Probe (not shown) for direct temperature measurement of sample



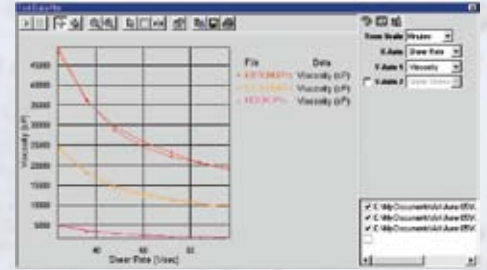
Purge Fittings  
 choice of 2, 3, or 4

Luer Fitting  
 for sample inlet

## Rheocalc32 Software Optional

Get total control of your instrument and test parameters

Automatically control and collect data with Rheocalc32 and a dedicated computer. Rheocalc32 can analyze data, generate multiple plot overlays, print tabular data, run math models and perform other time-saving routines. Data can be saved in the program or exported to Excel.



## 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.



## 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  
 Epoxies  
 Inks (ballpoint, offset, lithographic)  
 Pastes  
 Peanut Butter  
 Roofing Compounds  
 Sealants  
 Tars

