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 Prime 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

Temperature Range: -10°C to 100°C

Accuracy: ±1.0% of range

Repeatability: ±0.2%

Viscosity Range* cP(mPa•s)

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

BROOKFIELD VISCOMETERS

T: 800.628.8139 or 508.946.6200   F: 508.946.6262   www.brookfieldengineering.com

What's Included?

Instrument

Lab Stand (p46)

Choice of one Cone Spindle (p42)

Sample Cup (p42)

Optional Accessories

Embedded Temperature Probe
in Sample Cup (p42)

Luer and Purge fittings

Ball Bearing Suspension (p46)

Additional Cone Spindles (p42)

Viscosity Standards (p48)

Circulating Temperature Bath (p29)

Rheocalc32 Software ▶
(DV-III+ Ultra & DV-II+Pro only)

Wingather Software ▶
(DV-II+Pro only)

Protective Keypad Covers (p47)

— 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
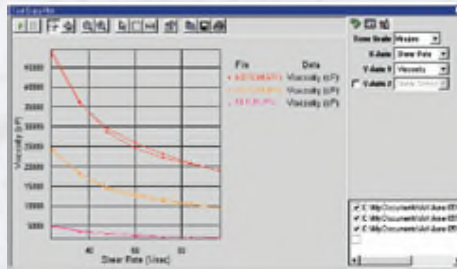for sample inlet

Optional Sample Cup

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

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.

- Controls test parameters with powerful scripting capabilities
- NEW wizard for self-guiding creation of test programs
- Looping functions for repetitive tasks
- Automates data collection to save time
- Math modeling for yield stress calculations, plastic index
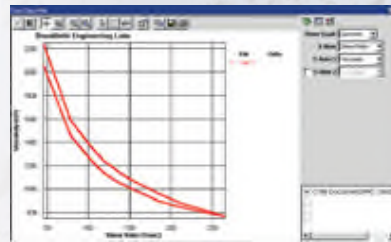- Plot up to four data sets for comparisons

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 four data sets for comparisons