

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

Accuracy: ±1.0% of range

Repeatability: ±0.2%

Electronic Gap Adjustment™

- Simplified setup
- Accurate
- Easy-to-use

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

Temperature Range:

- 10°C to 100°C

Precise shear rates

for determining a material's flow
curve behavior



What's Included?

- Instrument
- Lab Stand (p50)
- Choice of one Cone Spindle (p46)
- Sample Cup (p46)

Optional Accessories

- Embedded Temperature Probe
in Sample Cup (p46)
- Luer and Purge fittings
- Ball Bearing Suspension (p50)
- Additional Cone Spindles (p46)
- Viscosity Standards (p52)
- Circulating Temperature Bath (p33-35)
- Rheocalc32 Software ▶
(DV-III+ Ultra & DV-II+Pro only)
- Wingather Software ▶
(DV-II+Pro only)
- Protective Keypad Covers (p51)

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			
	.1 - 3K	.5 - 11K	.2 - 6K	2 - 48K	3 - 92K	.01 - 250	2.6K	.2 - 3K	.6 - 11K	.3 - 6K	2 - 48K	4 - 92K	.01 - 200	54
LVDV-IIIUCP	.1 - 3K	.5 - 11K	.2 - 6K	2 - 48K	3 - 92K	.01 - 250	2.6K	.2 - 3K	.6 - 11K	.3 - 6K	2 - 48K	4 - 92K	.01 - 200	54
LVDV-II+PCP	.2 - 3K	.6 - 11K	.3 - 6K	2 - 48K	4 - 92K	.01 - 200	54	.3 - 1K	1 - 3K	.6 - 2K	5 - 16K	9 - 30K	0.3 - 100	18
LVDV-IPCP	.3 - 1K	1 - 3K	.6 - 2K	5 - 16K	9 - 30K	0.3 - 100	18	1 - 32K	5 - 122K	2 - 64K	20 - 512K	39 - 983K	.01 - 250	2.6K
RVDV-IIIUCP	1 - 32K	5 - 122K	2 - 64K	20 - 512K	39 - 983K	.01 - 250	2.6K	1.6 - 32K	6 - 122K	3 - 64K	25 - 512K	49 - 983K	.01 - 200	54
RVDV-II+PCP	1.6 - 32K	6 - 122K	3 - 64K	25 - 512K	49 - 983K	.01 - 200	54	3 - 10K	12 - 41K	6 - 21K	51 - 170K	98 - 327K	0.3 - 100	18
RVDV-IPCP	3 - 10K	12 - 41K	6 - 21K	51 - 170K	98 - 327K	0.3 - 100	18	2.6 - 65K	10 - 245K	5 - 128K	41 - 1M	78 - 2M	.01 - 250	2.6K
HADV-IIIUCP	2.6 - 65K	10 - 245K	5 - 128K	41 - 1M	78 - 2M	.01 - 250	2.6K	3 - 65K	12 - 245K	6 - 128K	51 - 1M	98 - 2M	.01 - 200	54
HADV-II+PCP	3 - 65K	12 - 245K	6 - 128K	51 - 1M	98 - 2M	.01 - 200	54	6.6 - 21K	24 - 81K	12 - 42K	102 - 341K	196 - 655K	0.3 - 100	18
HADV-IPCP	6.6 - 21K	24 - 81K	12 - 42K	102 - 341K	196 - 655K	0.3 - 100	18	10.5 - 261K	39 - 982K	20 - 512K	163 - 4M	314 - 7.8M	.01 - 250	2.6K
HBDV-IIIUCP	10.5 - 261K	39 - 982K	20 - 512K	163 - 4M	314 - 7.8M	.01 - 250	2.6K	13 - 261K	49 - 982K	25.6 - 512K	204 - 4M	393 - 7.8M	.01 - 200	54
HBDV-II+PCP	13 - 261K	49 - 982K	25.6 - 512K	204 - 4M	393 - 7.8M	.01 - 200	54	26 - 87K	98 - 327K	51 - 170K	409 - 1M	786 - 2.6M	0.3 - 100	18
HBDV-IPCP	26 - 87K	98 - 327K	51 - 170K	409 - 1M	786 - 2.6M	0.3 - 100	18							

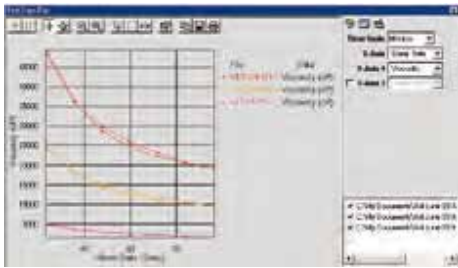
M = 1 million K = 1 thousand cP = Centipoise mPa•s = Millipascal•seconds mL = Milliliter N = RPM e.g. Spindle CPE-40 7.50 x 10 (rpm) = 75.0 sec⁻¹
* Dependant upon cone selected.

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
- 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



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

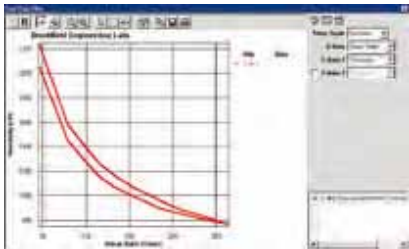
Luer Fitting
for sample inlet

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



Time	Stress	Strain	...
0.00	0.00	0.00	...
0.05	100.00	0.05	...
0.10	200.00	0.10	...
0.15	300.00	0.15	...
0.20	400.00	0.20	...
0.25	500.00	0.25	...
0.30	600.00	0.30	...
0.35	700.00	0.35	...
0.40	800.00	0.40	...
0.45	900.00	0.45	...
0.50	1000.00	0.50	...

Optional Sample Cup

The Optional Sample Cup has luer and purge fittings for introducing and removing test sample while cup remains attached to instrument



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