Wells/Brookfield™ Cone & Plate

optional small sample configuration for DV3T, DV2T & DV1 Available only when instrument is first purchased

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
Ball Bearing Suspension
Additional Cone Spindles
Viscosity Standards
Circulating Temperature Bath
RheocalcT Software ▶ (DV3T & DV2T only)
Wingather SQ Software ▶ (DV1 only)
Protective Keypad Covers

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

Available in these models
- DV3T Rheometer
- DV2T Viscometer
- DV1 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

Rapid temperature control
due to small sample size

Recommended Temperature Range:
5°C to 80°C

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

Viscosity Range* cP(mPa•s)

MODEL	Cone Spindle: CPA-40Z / Sample Volume: .5mL / Shear Rate (sec⁻¹): 7.5N	Cone Spindle: CPA-41Z / Sample Volume: 2.0mL / Shear Rate (sec⁻¹): 2.0N	Cone Spindle: CPA-42Z / Sample Volume: 1.0mL / Shear Rate (sec⁻¹): 3.84N	Cone Spindle: CPA-51Z / Sample Volume: .5mL / Shear Rate (sec⁻¹): 3.84N	Cone Spindle: CPA-52Z / Sample Volume: .5mL / Shear Rate (sec⁻¹): 2.0N	SPEEDS RPM	SPEEDS Number of Increments
DV3TLVCP	.1 - 3K	.5 - 11K	.2 - 6K	2 - 48K	3 - 92K	.01 - 250	2.6K
DV2TLVCP	.2 - 3K	.6 - 11K	.3 - 6K	2 - 48K	4 - 92K	0.1 - 200	200
DV1MLVCP	.3 - 1K	1 - 3K	.6 - 2K	5 - 16K	9 - 30K	0.3 - 100	18
DV3TRVCP	1 - 32K	5 - 122K	2 - 64K	20 - 512K	39 - 983K	.01 - 250	2.6K
DV2TRVCP	1.6 - 32K	6 - 122K	3 - 64K	25 - 512K	49 - 983K	0.1 - 200	200
DV1MRVCP	3 - 10K	12 - 41K	6 - 21K	51 - 170K	98 - 327K	0.3 - 100	18
DV3THACP	2.6 - 65K	10 - 245K	5 - 128K	41 - 1M	78 - 2M	.01 - 250	2.6K
DV2THACP	3 - 65K	12 - 245K	6 - 128K	51 - 1M	98 - 2M	0.1 - 200	200
DV1MHACP	6.6 - 21K	24 - 81K	12 - 42K	102 - 341K	196 - 655K	0.3 - 100	18
DV3THBCP	10.5 - 261K	39 - 982K	20 - 512K	163 - 4M	314 - 7.8M	.01 - 250	2.6K
DV2THBCP	13 - 261K	49 - 982K	25.6 - 512K	204 - 4M	393 - 7.8M	0.1 - 200	200
DV1MHBCP	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 CPA-40Z 7.50 x 10 (rpm) = 75.0 sec⁻¹

* Dependant upon cone selected.

RheocalcT Software Optional for DV2T and DV3T

GET TOTAL CONTROL OF YOUR INSTRUMENT AND TEST PARAMETERS

Automatically control and collect data with RheocalcT and a dedicated computer. RheocalcT can analyze data, generate multiple plot overlays, print tabular data, run math models and perform other time-saving routines. Up to five comparison data sets can be plotted and saved. Other features include:

- Wizards to guide you through the creation of common tests
- Secure 21CFR features including multiple logins, access levels, digital signatures, and data storage in a password-protected database
- Looping functions for repetitive tasks
- Averaging of collected data by step or whole test
- Math models: Bingham, Casson, Casson NCA/CMA, Power Law, IPC Paste, Herschel-Bulkley, Thix Index
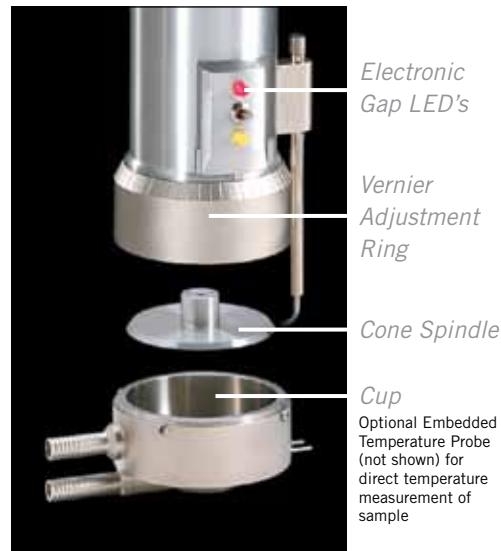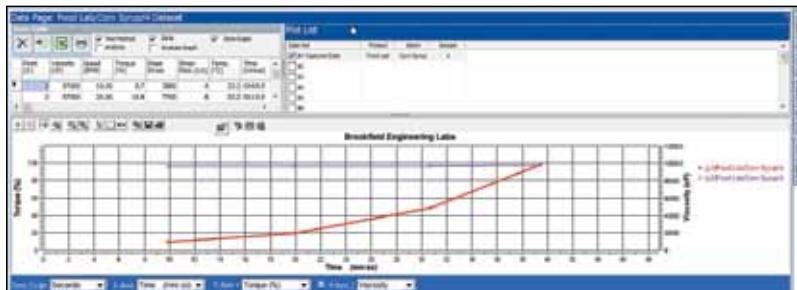

Wingather SQ Software Optional for DV1

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

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

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

ISO CERTIFIED

BROOKFIELD
AMETEK®