

Wells/Brookfield™ Cone & Plate

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



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 (p27)

Rapid temperature control

due to small sample size

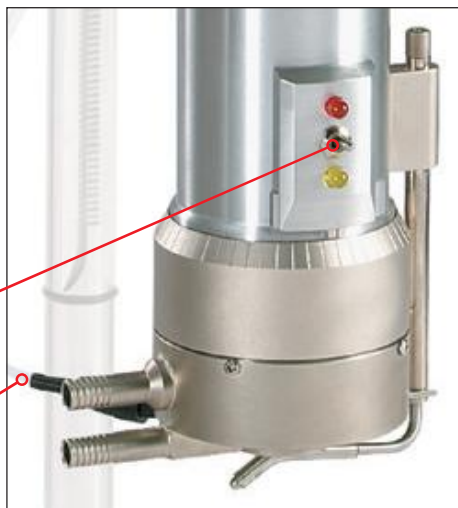
Recommended

Temperature Range:

5°C to 80°C

Precise shear rates

for determining a material's flow curve behavior



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)
- RheocalcT Software ▶ (DV3T & DV2T only)
- Wingather SQ Software ▶ (DV1 only)
- Protective Keypad Covers (p51)

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 | | | |
|----------|---|-----------|--|------------|---|-----------|--|-------------|---|-------------|------------|------------|-----------|------|
| | .1 - 3K | .5 - 11K | .2 - 6K | 2 - 48K | 3 - 92K | .01 - 250 | 2.6K | .2 - 3K | .6 - 11K | .3 - 6K | 2 - 48K | 4 - 92K | 0.1 - 200 | 200 |
| DV3TLVCP | .1 - 3K | .5 - 11K | .2 - 6K | 2 - 48K | 3 - 92K | .01 - 250 | 2.6K | .2 - 3K | .6 - 11K | .3 - 6K | 2 - 48K | 4 - 92K | 0.1 - 200 | 200 |
| DV2TLVCP | .2 - 3K | .6 - 11K | .3 - 6K | 2 - 48K | 4 - 92K | 0.1 - 200 | 200 | .3 - 1K | 1 - 3K | .6 - 2K | 5 - 16K | 9 - 30K | 0.3 - 100 | 18 |
| DV1MLVCP | .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 |
| DV3TRVCP | 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 | 0.1 - 200 | 200 |
| DV2TRVCP | 1.6 - 32K | 6 - 122K | 3 - 64K | 25 - 512K | 49 - 983K | 0.1 - 200 | 200 | 3 - 10K | 12 - 41K | 6 - 21K | 51 - 170K | 98 - 327K | 0.3 - 100 | 18 |
| DV1MRVCP | 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 |
| DV3THACP | 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 | 0.1 - 200 | 200 |
| DV2THACP | 3 - 65K | 12 - 245K | 6 - 128K | 51 - 1M | 98 - 2M | 0.1 - 200 | 200 | 6.6 - 21K | 24 - 81K | 12 - 42K | 102 - 341K | 196 - 655K | 0.3 - 100 | 18 |
| DV1MHACP | 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 |
| DV3THBCP | 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 | 0.1 - 200 | 200 |
| DV2THBCP | 13 - 261K | 49 - 982K | 25.6 - 512K | 204 - 4M | 393 - 7.8M | 0.1 - 200 | 200 | 26 - 87K | 98 - 327K | 51 - 170K | 409 - 1M | 786 - 2.6M | 0.3 - 100 | 18 |
| 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 (see p14 for more details)
 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:

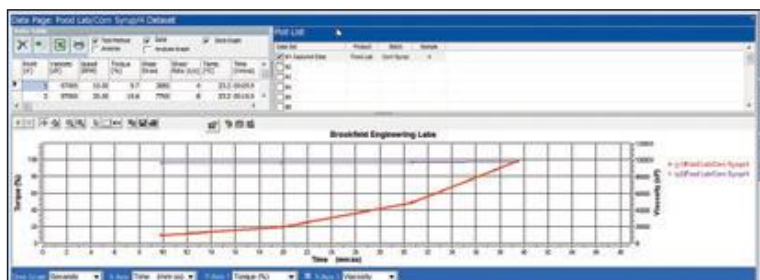
- Wizards to guide you through the creation of common tests
- Secure 21CFR features including multiple logins, access levels, digital signatures, and data storage in a password-protected database
- Looping functions for repetitive tasks
- Averaging of collected data by step or whole test
- Math models: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



Wingather SQ Software Optional for DV1 (see p14 for more details)
 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



Optional Sample Cup

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