

DVNext™ Cone/Plate Rheometer

AMETEK Brookfield's latest Rheometer for measuring small sample sizes

- Optional Compliance to 21 CFR Part 11 in Stand-alone Mode
- Optional Compliant Version Includes Ethernet and LIMS Connectivity
- Quick Set-up with the New Viscosity Wizard and Digital Leveling
- Updated Gap Settings

Optional Accessories

- RheocalcT Software
- Label Printer
- Barcode Scanner
- Viscosity Standards
- Quick Action Lab Stand
- Temperature Bath
- Ball Bearing Suspension (Standard in high torque instruments)
- Embedded Temperature Probe in Sample Cup
- Luer and Purge Fittings
- Additional Cone Spindles
- Magnetic Coupling
- Protective Touchscreen Covers

| MODEL COMPARISON | Standard | Compliant |
|-------------------------------|----------|-----------|
| Viscosity Wizard | Included | Included |
| Digital Leveling | Included | Included |
| Automated Oscillation Test | Included | Included |
| Updated Gap Setting | Included | Included |
| Magnetic Coupling System | Optional | Included |
| Barcode Scanning | Optional | Included |
| Automatic Spindle Recognition | N/A | Included |
| Ethernet Connectivity | N/A | Included |
| LIMS Connectivity | N/A | Included |
| Compliance to 21 CFR Part 11 | N/A | Included |



Sample Cup (CPA-44YZ)



Cone Spindles

DVNext Cone/Plate Rheometer

The all-in-one instrument for measuring viscosity and yield stress with optional 21 CFR Part 11 and GAMP compliance



Features

7-inch Full-Color -

Touch Screen Display

- Enhanced Controls
- Real-Time Graphing
- Supports Multiple Languages

Displayed Info:

- Viscosity (cP or mPa•s)
- Temperature (°C or °F)
- Shear Rate/Stress
- % Torque
- Speed/Spindle
- Step Program Status
- Math Model Calculations

Viscosity Wizard

Built-in match models for data analysis in stand-alone mode (e.g., Casson, Bingham, Power Law, Thix Index)

Stand-alone Programming

Integrated Temperature Control

Connected to AMETEK Brookfield TC series Baths and AP/SD Controllers or AMETEK Brookfield Thermosel System.

RTD Temperature Probe

Accuracy: ±1.0% of Range

- Displayed with Test Data

Repeatability: ±0.2%

Analyze characteristics such as yield stress, flow curves (mixing, pumping, spraying), leveling, and recovery

USB PC Interface provides optional computer control and automatic data collection capability

Digital Leveling

Internal Data Storage: 150 MB

Date and Time Stamp File

Built-In Options

- Math Modeling
- Temperature Control
- Yield Tests
- Programmable QC Limits, Alarms, and End Conditions

GAMP*

21 CFR Part 11 Compliant*

- Customizable User Access
- Electronic Signatures
- Uneditable PDFs
- Automated Archived Audit Trail

*Only available in Compliant Versions

Viscosity Range* cP(mPa•s)

| Cone Spindle: | CPA-40Z and CPM-40Z | CPA-41Z and CPM-41Z | CPA-42Z and CPM-42Z | CPA-51Z and CPM-51Z | CPA-52Z and CPM-52Z | SPEEDS | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------|----------------------|
| | | | | | | RPM | Number of Increments |
| Sample Volume: | .5mL | 2.0mL | 1.0mL | .5mL | .5mL | | |
| Shear Rate (sec-1): | 7.5N | 2.0N | 3.84N | 3.84N | 2.0N | | |
| MODEL | | | | | | | |
| DVNXLVCP | .1-3k | .5-11k | .2-6k | 2-48k | 3-92k | .01-250 | 2.6k |
| DVNXRVCP | 1-32k | 5-122k | 2-64k | 20-512k | 39-983k | 01-250 | 2.6k |
| DVNXHACP | 2.6-65k | 10-245k | 5-128k | 41-1M | 78-2M | .01-250 | 2.6k |
| DVNXHBCP | 10.5-261k | 39-982k | 20-512k | 163-4M | 314-7.8M | .01-250 | 2.6k |

K = 1 thousand cP = Centipoise M = 1 million mPa•s = Millipascal•seconds mL = MilliLiter e.g. Spindle CPA-40Z 7.50 x 10(rpm) = 75.0 sec⁻¹

*Dependant upon cone selected.