

# 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
- 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
Ethernet Connectivity	N/A	Included
LIMS Connectivity	N/A	Included
Compliance to 21 CFR Part 11	N/A	Included

\*Spindle recognition with barcode reader



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:  $\pm 1.0\%$  of Range**

- Displayed with Test Data

**Repeatability:  $\pm 0.2\%$**

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:  Sample Volume: Shear Rate (sec-1):  MODEL	Viscosity Range* cP(mPa•s)					SPEEDS	
	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	RPM	Number of Increments
	.5mL 7.5N	2.0mL 2.0N	1.0mL 3.84N	.5mL 3.84N	.5mL 2.0N		
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<sup>-1</sup>

\*Dependant upon cone selected.