# DVNext Cone/Plate Rheometer

## 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
- Additional Cone Spindles
- Magnetic Coupling
- Protective Touchscreen

Sample Cup (CPA-44YZ)        Cone Spindles

| 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

## What's Included

- **Instrument**
- **Lab Stand****
- **Carrying Case**

Requires at least 1 CPA or CPM spindle and 1 CPA sample cup to operate.

**Type of stand depends on model chosen

Repeatable    Reliable    Accurate

# 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.

**RTD Temperature Probe**
- Probes purchased separately

**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: Sample Volume: Shear Rate (sec-1): MODEL | CPA-40Z and CPM-40Z .5mL 7.5N | CPA-41Z and CPM-41Z 2.0mL 2.0N | CPA-42Z and CPM-42Z 1.0mL 3.84N | CPA-51Z and CPM-51Z .5mL 3.84N | CPA-52Z and CPM-52Z .5mL 2.0N | SPEEDS RPM | Number of Increments |
|---|---|---|---|---|---|---|---|
| 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.

Repeatable    Reliable    Accurate