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

Brochure_DVNextCP_2023August

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

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