



byko-visc CP

Rotate and flow through thick and thin

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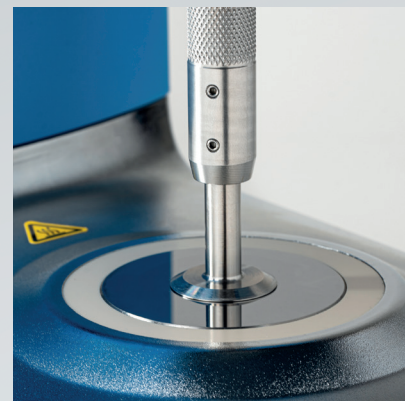


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byko-visc CP Cone and Plate Viscometer – Rotate and flow through thick and thin

Measuring viscosity accurately and consistently is crucial in paint, coatings, inks, and similar industries. Here Cone and Plate Viscometers are important tools for quality control of raw materials and products. These viscometers require only small sample volumes and can apply high shear rates in a defined measurement geometry, providing absolute viscosity values for comparable and highly reproducible results

- Easy and accurate determination of the absolute viscosity
- Small (< 2 mL) sample sizes save both material and time required to clean instrument
- Precise shear rates from a robust direct drive motor design make it ideal for non-Newtonian samples
- Built in temperature control – No additional thermal systems needed
- Brilliant 5" color touch display for easy navigation
- Easy and precise bayonet spindle attachment and automatic electronic spindle lift for increased accuracy and convenience



Measure conditions close to your manufacturing process

With the ability to measure low shear applications such as automotive clear coats or high shear applications such as wall paints, creams and nail polish the byko-visc CP offers flexibility and reliable results.

Constant shear rates throughout the sample allow for the testing of materials closer to their manufacturing or application process like the spreading of paint on a wall or the flow of a polymer melt inside a pipe. It offers a solution for the exact determination of the rheological behavior of non-Newtonian samples.

The byko-visc CP line uses the most common Cone and Plate geometries in the market which allows for easy comparison with existing instruments and specifications. A selection of ten optional cones made of 316 stainless steel cover a wide range of possible shear rates.



Precise and repeatable measurement

The direct drive technology adds improved precision and durability. Each test condition is recorded for detailed results analysis and review.

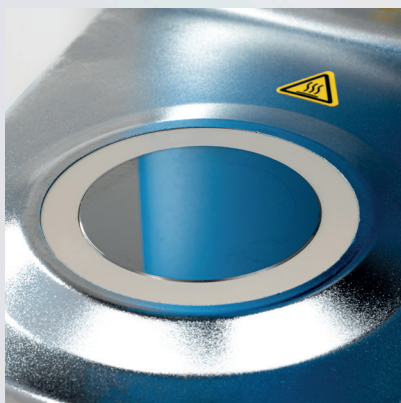
This precision is repeatable day-to-day and instrument-to-instrument, thanks to the instruments design and BYK-Gardner's quality control. An ISO 17025 calibration certificate is supplied with each instrument to confirm this performance.

Ease-of-Use to increase efficiency

byko-visc CP instruments are intuitive to operate, saving you crucial time and reducing the chances of mistakes. The user interface is designed with simplicity, allowing you to focus on the task rather than wasting time on complex instrument operation.

Built-in temperature control

Temperature is an important parameter in viscosity measurements because it influences the fluid's properties. The byko-visc CP allows for easy temperature control through its built-in temperature control systems on a robust tungsten carbide plate.



Product name	byko-visc CP L	byko-visc CP H	byko-visc CP Lite L	byko-visc CP Lite H
Catalog number	5210	5211	5212	5213
Temperature range	5° C–75° C	50° C–235° C	5° C–75° C	50° C–235° C
Speed range	5–1,000 RPM	5–1,000 RPM	100, 400, 750 & 950 RPM	100, 400, 750 & 950 RPM
Shear rate	10–13,000 sec ⁻¹	10–13,000 sec ⁻¹	500–12,000 sec ⁻¹	500–12,000 sec ⁻¹
No. of speeds	Freely selectable within speed range	Freely selectable within speed range	4 set speeds available	4 set speeds available
Repeatability	0.2 %	0.2 %	0.2 %	0.2 %
Accuracy	2 %	2 %	2 %	2 %
Preset memory	6 memory locations for measurement settings presets	6 memory locations for measurement settings presets	None	None
Measurement features	Time to Stop, Multi-step Ramp, QC Limits, Curve Fitting, Multi-point Tests	Time to Stop, Multi-step Ramp, QC Limits, Curve Fitting, Multi-point Tests	QC Limits, Time to Stop, Single-point Tests	QC Limits, Time to Stop, Single-point Tests
Display	Capacitive color display, 400 x 800 pixels	Capacitive color display, 400 x 800 pixels	Capacitive color display, 400 x 800 pixels	Capacitive color display, 400 x 800 pixels
Languages	English, German, French, Italian, Spanish, Russian, Japanese, Chinese	English, German, French, Italian, Spanish, Russian, Japanese, Chinese	English, German, French, Italian, Spanish, Russian, Japanese, Chinese	English, German, French, Italian, Spanish, Russian, Japanese, Chinese

Meets ASTM and ISO Standards



The byko-visc CP is ideal to test the viscosity of your paint, coatings, inks, and more in compliance with ASTM D4287, ISO 2884, BS 3900. With this level of precision, you can be sure that your measurements will be accurate every time.

Standard configuration

- Instrument
- Power supply
- 17025 certificate

Global service and support any time, anywhere

With our global presence and our network of qualified agents and resellers BYK-Gardner viscometers are available worldwide. Our warehouses around the world ensure short delivery times for instruments and accessories. The BYK-Gardner application department will support you globally with technical expertise on how to use byko-visc viscometers.

And to learn more, join one of our free WebSeminars on viscosity measurement. Visit our website www.byk-instruments.com for more information and our white paper, Viscosity and Viscometers: A Comprehensive Guide.

Our dedicated BYK-Gardner service points are there to help you get the most out of your instrument. Globally, we are available for recertification according to ISO 17025 or to meet your other technical service needs.

Best value

- The byko-visc CP option offers freely selectable speeds and wide selection of integrated curve fitting routines to determine the characteristic rheological factors of a sample according to your needs.
- The byko-visc CP Lite is a simpler, streamlined version with predefined speeds according to established ASTM and ISO standards. It offers all the essential functions for viscosity measurements, making it a cost-effective and economical choice.