AUTO KV

Automatic Kinematic Viscometer

Petroleum products - diesel, residual fuels, lubricants , base oils & formulated oils

For use at multiple temperatures with the option to integrate with the JETVISC sub zero temperature KV Analyzer

Key features

Fully integrated *kinematic viscosity* analyzer

User friendly interface

Fully compliant with ASTM D445

Independent calibration to ISO 17025

Automatic “in-situ” cleaning

Patent pending

Automated Capillary Viscometry

AUTO KV D445

The **PSL -RHEOTEK AUTO KV** provides a reliable and precise method for measuring petroleum products at single or multiple temperatures.

Automatic flow time measurements are conducted in standard, high precison ASTM Ubbelohde viscometer tubes.

Reported kinematic viscosity results are in full compliance with ASTM D445, IP 71 & ISO 3104.

The **AUTO KV** has been developed by Poulten Selfe & Lee Ltd in response to the industry desire for a simple, time saving & precise solution to automating kinematic viscosity measurements.

The **AUTO KV** can be configured with one or two bath cells.

In addition, the **AUTO KV** can be integrated with the sub zero JETVISC Analyzer providing a multi KV analyzer from -40 to +100ºC.

PSL - a world leader in Viscosity Measurement

The RHEOTEK range of instruments are manufactured in the United Kingdom and the USA by Poulten, Selfe and Lee Ltd.

Poulten, Selfe & Lee Ltd. (PSL) was established in 1850. For more than 60 years the company has been specializing in viscosity measurement. PSL's high precision glass capillary viscometers are used worldwide for manual and automated viscosity measurement.

All glass capillary viscometers are hand made by PSL's highly skilled glass blowing department and calibrated by the in-house ISO 17025 accredited laboratory.

Over the past decade, the company has developed a complete range of high precision automated viscometers. These are used in a wide range of industries such as petrochemical, polymer, pulp and pharmaceutical.

The company's USA operations are based in Kentucky. RHEOTEK USA Inc. provides sales, service and applications support to customers throughout the USA, Canada and Mexico.

Worldwide, the RHEOTEK range of instruments are sold and serviced by a network of authorized sales agents.

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Technical

AUTO KV Specifications	
Kinematic Viscosity Analyzer	Fully integrated with bath cell, colour touch screen & printer.
Test Methods	ASTM D445, ASTM D446, IP71, ISO 3104, 3105.
Temperature range	+40ºC to +100ºC (±0.01ºC).
Typical applications	Transparent & opaque petroleum liquids including diesel fuel, residual fuel, base oils, formulated oils
No. of measuring positions	Up to 4
Nominal kinematic viscosity range	0.3 to 1,000 mm²/s, cSt
Flow time precision	0.001 seconds.
Sample volume	12 – 15 mL.
Bath volume	2 litres.
Sample induction	Pour or pipette.
Display Screen	Full colour high resolution touch sensitive display panel.
Printer	Built in thermal printer.
Cleaning & drying	Automatic in-situ cleaning with two solvents. Option for third solvent if required.
User interface	Virtual keyboard, dashboard & result database.
Communications	LIMS port.
Data retrieval	2 x USB ports.
Electrical	230V AC (/50Hz), 115V AC (60Hz).
Dimensions (W x L X H)	72 x 64 x 65 cm (single bath cell).
Weight (single cell)	70 kg.

Ordering Information	
JV3001S	**PSL-RHEOTEK AUTO KV** - Automatic Kinematic Viscometer Analyzer – includes touch screen control, **one bath cell module and two measuring positions.**
JV3002S	**PSL-RHEOTEK AUTO KV** Analyzer (dual) - Automatic Kinematic Viscometer Analyzer – includes touch screen control, **two bath cell modules and four measuring positions.**
JV3003S	**MULTI KV Analyzer** with sub zero bath cell - Automatic Kinematic Viscometer Analyzer – includes touch screen control, **one standard bath cell module and one sub-zero bath cell module and three measuring positions.**

Accessories

A full range of accessories are available including: bath fluids, ASTM Ubbelohde viscometers & viscosity reference standards