

## MULTI KV

### *Automatic Kinematic Viscometer*

*Unique kinematic Viscometer Analyzer suitable for testing multiple applications e.g. jet, diesel, residual fuels and other petroleum liquids at sub-zero and positive temperatures*

## 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



[www.rheotek.com](http://www.rheotek.com)

## MULTI KV ASTM D445

The **PSL -RHEOTEK MULTI 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 precision ASTM Ubbelohde viscometer tubes.

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

The **MULTI 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 **MULTI KV** is suitable for use between  $-40^{\circ}\text{C}$  and  $+100^{\circ}\text{C}$

## World leaders In Viscosity Measurement

The PSL-RHEOTEK range of instruments are manufactured in the United Kingdom 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 PSL-RHEOTEK range of instruments are sold and serviced by a network of authorized sales agents.

### United Kingdom:

Poulten, Selfe & Lee Ltd  
Russell House  
Burnham Business Park  
Burnham-on-Crouch  
Essex CM0 8TE  
United Kingdom  
t. +44 1621 787100  
f. +44 1621 787175

### N. America:

RHEOTEK USA Inc.  
6001 Claymont Village Drive,  
Suites #1 & 2  
Crestwood  
KY 40014  
t. 502 243 4126  
f. 502 243 4127

### Europe:

RHEOTEK Nordic ApS  
Bækgade 10  
6400 Sønderborg  
DENMARK  
t. + 45 74461737  
f. + 45 74461733

info@rheotek.com

# psl rheotek

*60 years of experience in Capillary Viscometry*

## Technical

MULTI KV Specifications	
Kinematic Viscosity Analyzer	Fully integrated with bath cells, color touch screen & printer.
Test Methods	ASTM D445, ASTM D446, IP71, ISO 3104, 3105
Temperature range	+40°C to +100°C (+0.01°C)
Typical applications	Transparent & opaque petroleum liquids including jet fuel, diesel fuel, residual fuel, base oils, formulated oils
No. of measuring positions	3
Nominal kinematic viscosity range	0.3 to 1,000 mm <sup>2</sup> /s, cSt
Flow time precision	0.001 seconds
Sample volume	12 – 15 mL.
Bath volume	2 litres & 3.5 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	115V AC (60Hz) or 230V (50Hz)
Dimensions (W x L X H)	102 x 64 x 65 cm
Weight	100 kg

## Ordering Information

<b>KV3001S</b>	<b>PSL-RHEOTEK AUTO KV</b> - Automatic Kinematic Viscometer Analyzer – includes touch screen control, <b>one bath cell module and two measuring positions.</b>
<b>KV3002S</b>	<b>PSL-RHEOTEK AUTO KV Analyzer (dual)</b> - Automatic Kinematic Viscometer Analyzer – includes touch screen control, <b>two bath cell modules and four measuring positions.</b>
<b>KV3003S</b>	<b>MULTI KV Analyzer</b> with sub zero bath cell - Automatic Kinematic Viscometer Analyzer – includes touch screen control, <b>one standard bath cell module and one sub-zero bath cell module and three measuring positions.</b>

## Accessories

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