PSL Rheotek Automatic Viscometer AV-2.5 KV

Kinematic - Automatic Viscometer

Suitable for measuring a wide range of petroleum applications including new and in-service lubricants, base oils, distillate and residual fuels.

AV-2.5 KV Automatic Viscometer

The PSL Rheotek Automatic (capillary) viscometer is highly suitable for measuring a wide range of petroleum oils and fuels in the temperature range 40 to 100ºC.

A peltier cooling option is available for applications in the range 20 to 30°C.

The AV-2.5 KV consists of an analyzer with dual position viscometers and in-line density cells, auto sampler, as well as onboard PC control system. An extensive database records all measured flow times and calculated results.

Viscosity is measured through a calibrated capillary using a constant driving force.

The AV-2.5 KV complies with IP543 Automatic Capillary Tube Method. This method provides precision data and correlation to ISO3104, IP71-ASTM D445.

- **Automatic sample delivery**
- **Automatic flow time measurement**
- **Automatic "in-situ" cleaning**
- **Two measuring positions**
- **PC controlled**
- **Kinematic viscosity (mm²/s) reported results**

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PSL Rheotek Automatic Viscometer AV-2.5 KV

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.

Worldwide, instruments are sold and serviced by a network of PSL Rheotek offices and authorized sales agents.

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Agent Info:

AV-2.5 KV Specifications	
Viscosity Analyzer	Fully automatic. Complete with auto sampler and onboard PC control system.
Measuring principle	Flow time measurement through a calibrated capillary tube using a direct drive force.
Test Method	IP 543 Automatic Capillary Tube method
Related Methods (precision)	ISO 3104, IP71-ASTM D445
Temperature range	40, 50, 80 or 100ºC (± 0.015ºC or better)
No. of measuring positions	Two (2)
Nominal viscosity measuring range	1 to 2,500 mm²/s, cSt (higher on request)
Density resolution	0.0001 g/cm³, 0.1kg/m³
Density precision	3 d.p.
Cleaning & drying	Automatic in-situ cleaning with two solvents.
Communications	LIMS port.
Electrical	Auto power sensing AC Voltage (single phase) 100 – 250V (50 60Hz)
Dimensions	85 x 69 x 40cm (AV-2 Analyzer), 54 x 44 x 60cm (Auto Sampler)

Subject to technical change

Ordering Information	
AV25101S	**PSL Rheotek AV-2.5 KV** (fuels) – Automatic Capillary Viscometer – suitable for use at 40 to 100ºC. Complete with two measuring positions, density cells, XYZ auto sampler with two sample needles, and PC control system.
AV25102S	**PSL Rheotek AV-2.5 KV** (lubes) – Automatic Capillary Viscometer – suitable for use at 40 to 100ºC. Complete with two measuring positions, density cells, XYZ auto sampler with dual needles, and PC control system.
AV2510	Peltier cooling system option (for extending the AV2.5 temperature range to 20 to 30ºC).

Consumables	
AV2590	Plastic sample vials (500 pcs)
AV2595	ASTM viscosity reference oils (10 x 500mL) – range from S3 to S2000. Complete with ISO 17025 certificates of calibration.

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