PHASE TECHNOLOGY

SERIES VA300

for viscosity analysis

Innovative Design

From a name that you can trust, the VA-300 viscometer integrates proven technology with the power of advanced multi-processor systems, accurate thermal control, super sensitive micro-detectors and user-friendliness of a full-color touch-screen interface into one compact module. The result is a powerful instrument that precisely reports viscosity values with unprecedented speed.

Outstanding Features

High Precision

The VA300 meets or exceeds precision requirements set forth in ASTM D445 (and related ISO 3104, IP 71). Each instrument is calibrated using ISO 17025 traceable viscosity standards, ensuring a precision that helps you minimize product giveaway and improve profitability.

Superior Speed

Using the optional autosampler, the VA300 can test up to 40 samples per hour for models with dual measurement cells. Dual cells also allow simultaneous measurements at two temperatures to obtain viscosity index quickly and conveniently. When just-in-time product release or high throughput is a must, the VA300 is your answer.

Incredible Viscosity Range

A single fluoro-polymer capillary covers the full range of petroleum products. There is no need to change capillary tubes to accommodate different viscosity ranges, thus eliminating the guesswork in capillary tube selection with unknown samples, and minimizing operational delay and changeover/calibration errors.

Wide Temperature Range

The analyzer can be programmed to measure viscosity from 20° to 100°C. Using internal heaters and thermoelectric coolers, test temperatures are quickly and easily achieved without relying on external heating or cooling medium. While product release typically specifies fixed temperatures such as 40°C and 100°C, the ability to test at a wide span of temperatures is especially attractive for research and new formulations.

Automatic Cleaning & Drying

Cleaning is fast and thorough after each test, and completely automatic for all models. The standard model utilizes two solvents, one specific for cleaning and the other for drying, both efficiently allocated by intelligent software. An internal self-generated air source completes the final drying. Best of all, no more manual cleaning!

Super Compact Package

Feature-packed into a unit measuring 17” (43 cm) wide by 12” (30 cm) high, the VA300 is approximately 8 times smaller than a conventional auto-viscometer with dual-temperature zones, not counting the space required by the conventional analyzers for accessories such as cooling/heating baths, compressors etc. The VA300 can comfortably fit onto a regular laboratory bench.

Applications

The VA300 is designed to produce precise results conforming to applicable ASTM methods. Its compact size is ideal for modern QA labs where bench space is at a premium. It is completely self-contained and transportable; thus the VA300 can be used for field applications. With its ability to measure both dynamic and kinematic viscosity, it is an ideal tool for R&D. Typical materials acceptable to the VA300 are:

- Formulated automotive and industrial oils
- Base stocks
- Middle distillates
- Used oils
- Hydraulic and transmission fluids
- Process and metal-working oils
- Crude oils
- Light and heavy oils
- Marine fuel oils
- Additives

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