DV Series Rotational Viscometer Viscosity measurement without limits



STANDARDS CONFIGURATION

The design of the standard spindles and the measurement principles of viscometers are as described in ISO 2555 and ISO 1652 standards.



1#,2#,3#,4# spindle is standard configuration of DV Series Viscometer. The spindles are manufactured in AISI 304 or 316 stainless steel.

FEATURES

- Direct readout of all measurement parameters on an illuminated Liquid Crystal Display.
- Data on screen:
 - Speed selected: r.p.m.

- Spindle selected: S.P.
- Viscosity reading: cP (mPa-s)
- Percentage of full scale: %
- Sample temperature: °C
- Shear rate (with special spindles): SR
- Shear stress (with special spindles): SS
- Determination of relative viscosity and absolute viscosity
- Different menu options
- AUTO TEST of the equipment by scanning at different speeds, with audible and visual warning if it is not operating properly.
- Temperature determinated by PT100 probe
- Viscosity reading: dynamic viscosity (cP or mPa-s)
- Datalogger function of the obtained results when an experiment is performed. The equipment is supplied with Windows software which can dump the data obtained to a file in Excel format (.xls) for subsequent processing.
- Determination of shear rate and shear stress with coaxial spindles.
- The viscometer and the PT100 can be calibrated by the user.
- Auto range function to determine the maximum viscosity with each spindle/speed combination.
- It can work with a micro printer or window software..
- Ultra-sensitive front keyboard that allows easy input of all parameters.
- "ERROR" message in the screen with sound alarm when the viscosity of the test material exceeds the full scale of the selected combination (SP/r.p.m.)
- Sound alarm if the equipment is working at under 10% of selected full scale.
- The viscometer is equipped with many speeds, from 0.1 to 800 r.p.m. The user can select another different speed into this margin.
- Safety protection against sudden rises in the power supply.
- English language options.

SPECIFICATIONS		
Accuracy	\pm 1% of the full scale.	
Resolution	 Using LCP (Low Viscosity Adapter): 0.01 When viscosity is lower than 10,000 cP: 0.1 When viscosity is equal or higher than 10,000 cP: 1 	
Repeatability	0.2%	
Temperature ranges	• from 0.0 °C to + 100.0 °C	
Resolution	0.1 °C	
Accuracy	±0.1°C	
Type of probe	PT 100	
Outputs	RS232, micro printer.	
Net weight	4 kg.	

All models are supplied with 85/265 VAC

Model	Measuring range	Fixed speeds in r.p.m.
DV-1+PRO	5 - 600,000 cP	0.3-100
DV-2+PRO	5-6,000,000cP	0.1-200.0
DV-3+PRO	2-80,000,000cP	0.1-800.0

ACCESSORIES











Thermosel for elevated temperature testing.The temperature can be used from environment temperature+10°C to 250°C. SC21,SC27,SC28,SC29 four spindles is configurated..



DV Series viscometer can select DvGather software to gather data,save data,compare many history curves and download custom program to viscometer,analysis curve to compute Yield stress,plastic viscosity etc.

Powerful scripting language provides for simple to complex data collection programs.

Provides looping functions for repetitive tests.

Automatic calculation of yield stress(bingham plastic,casson,power law consistency index)