

LVDV Series Rotary Viscometer



Main features:

1. Viscosity measurement accuracy: each range is automatically calibrated by a computer, with high accuracy and small error;
2. Front-level instrument: the level adjustment is intuitive and convenient.
3. Optional Pt100 temperature probe: wide temperature measurement range, from -20 to 300 °C, temperature measurement accuracy of 0.1 °C;
4. Optional enhanced ultra-low viscosity adapter ULR / URL PLUS, which can accurately measure the viscosity of 1 mPa.s;
5. Select a small amount of sample adapter, SSR / SSR PLUS, and the sample volume measured each time is only 7-11 ml;
6. Rich optional accessories: constant temperature bath, constant temperature cup, printer, standard viscosity sample (standard silicone oil), etc.;
7. With automatic scanning, timing measurement and other functions;
8. Automatic prompt function of viscosity measurement and stability.
9. Showing the shear rate and the shear stress.
10. Viscosity unit switching (1 Pa.s=1000 mPa.s; 1 P=100 mPa.s; 1 cP=1 mPa.s);
11. Temperature unit switch: Celsius, F;
12. Connect to the printer and the computer
13. Switching between Chinese and English operating systems

The torque of the gossamer, the shape of the rotor, the size of the rotation speed, and the range of the viscosity measurement are the same as the same viscometer imported, and the measured viscosity data is very well comparable with the imported similar instruments.

Widely used in paint, paint, cosmetics, ink, pulp, food, oil products, starch, adhesives, latex, biochemical products and other industries. It can also be optional high temperature furnace measurement need heating melt samples such as asphalt, hot melt glue, polyethylene wax and other samples.

Detailed technical parameters:

model	LVDV-1	LVDV-2
show	liquid crystal display	
speed(r/min)	0.3–100, 37 RPM	0.1-200, 58 RPM
measuring range	0.6 - 2,000,000 mPa.s	0.3 - 6,000,000 mPa.s
	(Below 10, should buy extra ULR) The lower limit of the actual exact measurement is 1	
Sample dosage	1-4 Rotor: 300-400ml 18,25,31,34Rotor: 7-11ml; ULR: 21ml	
measurement error	±1% (Newtonian liquid)	
repetitive error	±0.5% (Newtonian liquid)	
Showing the shear response / shear rate	standard configuration	
Timed function	standard configuration	
Temperature measurement function	Standard temperature probe interface (optional temperature probe is required)	
Automatic scanning function	Automatically scan and recommend a preferential combination of the rotor and the rotational speed	
Maximum measurement range	Automatically displays the measurable viscosity range of the selected rotor and speed	
Print function	Data and curve printable (standard printing interface, printer)	
data output interface	Two USB interfaces to printer and computer	
Thermostatic parts	Options (including special thermostatic slot for various viscosity meters, constant temperature cup)	
working power supply	110V/60Hz or 220V/50Hz)	
outline dimension	300 × 300 × 450 (mm)	

option:

1. Enhanced ultra-low viscosity Adapter (ULR / ULR PLUS)

Designed for low-viscosity fluid measurement, there are sandwich and non-sandwich sizes, with a minimum detection limit of 1cP, depending on the type of viscosity gauge used



2. Small number of sample adapters (rotor # 18,25,31,34)
 Range of viscosity measurement:
 LVDV-1: 3 - 1,600,000
 LVDV-2: 1.5 - 4,800,000
 Sample volume: 7-11ml



3. Temperature probe (temperature
 Pt100 platinum resistance was used
 Temperature measurement range:

Measurement accuracy: 0.1°C



4. Micro-thermal printer
 Can be directly connected to the viscometer
 Print data, print curves

5. Special constant temperature bath
 for the viscometer
 DC0506W:
 Temperature control range: -5 to 100°C
 Temperature control accuracy: 0.1°C



5. Temperature control device and heating furnace
 High temperature molten samples such as polyethylene
 wax measuring low viscosity can be used with rotor 0.
 It can also be used with the rotor number 18,25,31,34
 to measure the high-temperature molten samples of
 asphalt, hot melt glue, and paraffin.

