HINOTEK GROUP LIMITED

RV-HA-HB Series Rotary Viscometer

The RV-HA-HB series rotating viscometer can quickly, accurately, and easily measure the fluid samples with a high viscosity. Powerful, optional small sample adapter, enhanced ultra-low viscosity adapter, high speed, maximum measurable 320 million mPa.S.

It has the obvious advantages of many measurement parameters, rich display content, convenient operation, intuitive reading, high measurement accuracy, stable speed, strong anti-interference performance, display curve of shear rate and viscosity, and working voltage width. Can replace similar imported instruments.

main features:

1. Scosity 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℃, temperature measurement accuracy of 0.1℃;
4. Optional enhanced ultra-low viscosity adapter ULR / URL PLUS, which can accurately measure the viscosity of 1mPa.S;
5. Select a small amount of sample adapter, SSR / SSR PLUS, and the sample volume measured each time is only 7-11ml;
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. Sviscosity unit switching (1Pa.s=1000mPa.s; 1P=100mPa.s; 1cP=1mPa.s);
11. Temperature unit switch: Celsius, F;
12. Connect to the printer and the computer
13. Switching between Chinese and English operating systems

The RVDV / HADV / HBDV series viscometer measurable range is very large, from 3.2 to 320 million mPa.S, and almost covers the vast majority of the samples.

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

Widely used in paint, paint, cosmetics, ink, pulp, food, medicine, oil, starch, solvent adhesive, sealant, sealagent, epoxy resin, gel, latex, biochemical products and other industries and heating as well as the need to melt samples such as paraffin, polyethylene wax, rosin, asphalt, hot melt, etc.

Detailed technical parameters:

model	**RVDV-1**	**HADV-1**	**HBDV-1**
show	liquid crystal display		
speed(r/min)	0.3–100 ； 37 RPM		
measuring range	R2-R7：100 - 13M URL: 6.4 - 1K 21#：50-167K 27#：250-834K 28#：500-1.7M 29#:1K-3.3M	R2-R7：200 – 26M URL: 12.8 - 1K 21#：100-333K 27#；500-1.7K 28#：1K-3.3M 29#:2K-6.6M	R2-R7：800 - 104M URL: 51.2 - 2K 21#：400-1.3M 27#；2K-6.7M 28#：4K-13.3M 29#:8K-26.6M
	K = 1000; M = 1000000		
Sample dosage	R2 - R7 (6, standard), R1 (optional) Enhanced Ultra-Low Viscosity Adapter ULR (optional) Small number of sample adapters (rotor # 21,27,28,29) (optional)		
measurement error	R1-R7th rotor: 500ml, ULR: range 1-1000,21ml 21#:7.8ml 27#:11.3ml 28#:12.6ml 29#:11.5ml		
repetitive error	±1% (Newtonian liquid)		
Showing the shear response / shear rate	±0.5% (Newtonian liquid)		
Timed function	standard configuration		
measurement error	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)		

model	**RVDV-2**	**HADV-2**	**HBDV-2**
show	liquid crystal display		
speed(r/min)	0.1-200, 58 RPM		
measuring range	R2-R7：100 - 40M URL: 3.2 - 1K 21#：25-500K 27#；125-2.5M 28#：250-5M 29#: 500-10M	R2-R7：200 – 80M URL: 6.4 - 1K 21#：50-1M 27#：250-5M 28#：500-10M 29#: 1K-20M	R2-R7：800 - 320M URL: 25.6 - 2K 21#：200-4M 27#：1K-20M 28#：2K-40M 29#： 4K-80M
	K = 1000; M = 1000000		
Sample dosage	R2- R7 (6, standard), R1 (optional) Enhanced Ultra-Low Viscosity Adapter ULR (optional) Small number of sample adapters (rotor # 21,27,28,29) (optional)		

measurement error	R1-R7th rotor: 500ml, ULR: range 1-1000,21ml 21#:7.8ml 27#:11.3ml 28#:12.6ml 29#:11.5ml
repetitive error	±1% (Newtonian liquid)
Showing the shear response / shear rate	±0.5% (Newtonian liquid)
Timed function	standard configuration
measurement error	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)

Left to right: R1-R7 rotor

option:

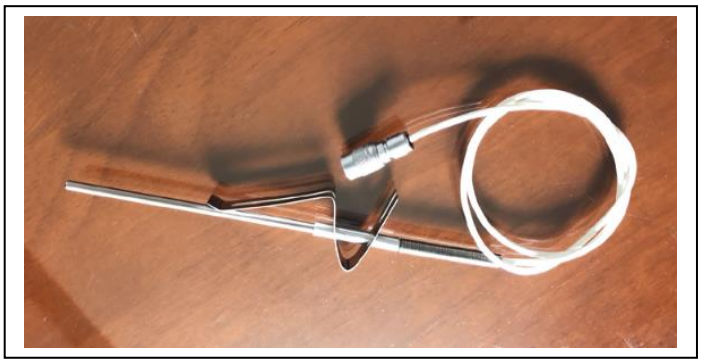
1. R1# rotor

If the specimen viscosity is below the lower limit of the measurement range of each model, the optional R1 rotor is required

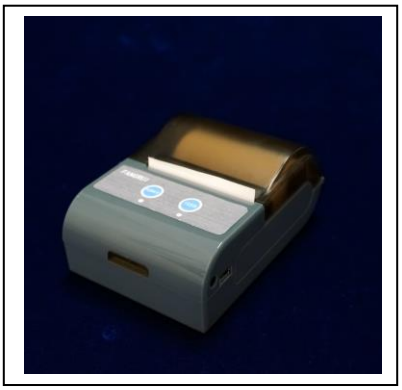
2. Enhanced ultra-low viscosity Adapter (ULR / ULR PLUS)

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 vissity gauge used

3. Small number of sample adapters
(rotor # 21,27,28,29)



4. Temperature probe (temperature sensor)
A Pt100 platinum resistance was used
Temperature measurement range: 20,300℃
Measurement accuracy: 0.1℃



5. Micro-thermal printer

Can be directly connected to the viscometer
print data
Print the curve

6. Special constant temperature bath

DC0506W：
Temperature control range: -5 to 100℃
Temperature control accuracy: 0.1℃
Equipped with stainless steel partition,

The constant temperature slot also has the external circulation function, which can be connected to the constant temperature cup

7. 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 21,27,28,29 to measure the high viscosity of asphalt, hot melt glue, rosin, paraffin, etc
sample