




DI Viscometer

BEVS 1139



Introduction	<p>BEVS 1139 DI Viscometer measures viscosity by detecting the viscous resistance exerted on its rotating spindle when it moves through a liquid. By using different spindles, it can accommodate a wide range of measurement needs. With high-precision sensors and advanced data-processing technology, the instrument offers digital and intelligent operation. It is widely used in quality control and research in industries such as coatings, inks, food, cosmetics, and adhesives.</p>
Working Principle	<p>The principle of a rotational viscometer is based on the behavior of Newtonian fluids, in which shear stress is proportional to shear rate. When the spindle rotates in a liquid, the fluid exerts a resisting torque on it, and the magnitude of this resistance is proportional to the fluid's viscosity. By measuring this torque during rotation, the viscosity of the liquid can be determined.</p>
Features	<ol style="list-style-type: none"> 1. 4-inch HD touchscreen with lightning-fast response 2. Support Chinese, English, German, Japanese, and Russian 3. Its flexible design adapts easily to a variety of measurement needs
Main Function	<ol style="list-style-type: none"> 1. Automatic zero calibration and automatic level detection 2. Viscosity units: cP / mPa·s / P / Pa·s 3. Displayed parameters: viscosity, temperature, speed, shear rate/shear stress, % torque, spindle type 4. Customizable users and user groups 5. Up to 10 user-defined measurement programs 6. Automatic alarm when torque exceeds the allowable range 7. Timed measurement function
Technical Parameters	<p>Measurement range: 1–2,000,000 cP Sample volume: 500 mL Speed range: 0.3–100 RPM Accuracy: ±1% of full scale Repeatability: ±0.2% of full scale Data storage: up to 1,000 measurement records Data export: support USB data export</p>
Instrument Parameters	<p>Dimensions: L412 × W310 × H550 mm (at maximum height) Power supply: AC 110/220 V, 50/60 Hz Power: 100W Weight: 6 kg (main unit)</p>
Packing list	<p>DI Viscometer x1 SL spindle x4 Rack x1 Guard leg x1</p>

		
<p>Spindle-4 pcs High-grade stainless steel</p>	<p>Rack-1 pc High-grade stainless steel</p>	<p>Guard leg-1 pc High-grade stainless steel</p>

■ Standards

GB/T	GB/T 40280, GB/T 2794, GB/T 21059, GB/T 14797.2, GB/T 15357
ASTM	ASTM D1337, ASTM D115, ASTM D1338, ASTM D789, ASTM D1417, ASTM D1076, ASTM D1439, ASTM D1084, ASTM D1824, ASTM D1986, ASTM D2196
ISO	ISO 1652, ISO 2535, ISO 2555, ISO 2884, ISO 8003, ISO 8003, ISO 10364-12

■ Ordering Info

BEVS 1139	DI Viscometer
BEVS 1139/P/010	SL spindle (4 spindles in one set)

■ Range of Spindles

Spindle No.	Range
SL1	15-20,000 cP
SL2	75-100,000 cP
SL3	300-400,000 cP
SL4	1,500-2,000,000 cP