



VISCOTM B (L)

Liberation from All Previous Hassle
New Type of Digital Viscometer

PRODUCTS

VISCO™ B (L)

Liberation from All Previous Hassle New Type of Digital Viscometer



Specifications

NEW

Cat.No.	6840			
Measurement Scales	Viscosity, Temperature, Torque%			
Display Items	Viscosity, Temperature, Torque%, Speed, Spindle and beaker combination			
Measurement range	Viscosity	12 to 60,000,000mPa·S, 12 to 60,000,000cP		
	L1	12 to 600,000mPa·S, 12 to 600,000cP		
	L2	30 to 3,000,000mPa·S, 30 to 3,000,000cP		
	L3	48 to 12,000,000mPa·S, 48 to 12,000,000cP		
	L4	240 to 60,000,000mPa·S, 240 to 60,000,000cP		
	Torque	0.0 to 100.0% (recommended torque: 10.0 to 100.0%)		
	Temperature	0.0 to 100.0°C, 32.0 to 212.0°F		
Resolution	Viscosity	lower than 100mPa·s	:0.01mPa·s	
	Torque	100mPa·s or higher	than 10,000mPa·s	:0.1mPa·s
		10,000mPa·s or higher		:1mPa·s
			Lower than 10%	
Measurement Accuracy		10% or higher		:0.1%
	Viscosity	±1% of Maximum Viscosity		
	Temperature	±0.2°C/±0.4°F		
Speed	0.01 to 250rpm			
	Number of Speeds: 28 levels			
Sample Temperature Range	10.0 to 40.0°C/50.0 to 104.0°F			
Environment Temperature	10 to 40°C			
Computer Communication	Output: USB - PC			
Power Supply	LR6 / AA alkaline batteries (x4)			
	AC adapter	input: AC100 to 240V, 50/60Hz, 0.3A output: 9V, 0.5A.		
Materials	Main unit	SUS316L		
	Stand	Aluminium		
	Rod	SUS303		
	Spindle	SUS316		
	Guard stirrup	SUS316L		
	Temperature sensor	SUS304/303		
Dimensions & Weight	Main unit	(W)178×(D)86×(H)194mm, 1.2kg		
	Stand and Rod	240×(H)398mm 2.8kg		
	Spindle L1	55g		
	L2	25g		
	L3	13g		
	L4	12g		
	Guard stirrup S	43g		
	Guard stirrup L	52g		
	Temperature sensor	7g		

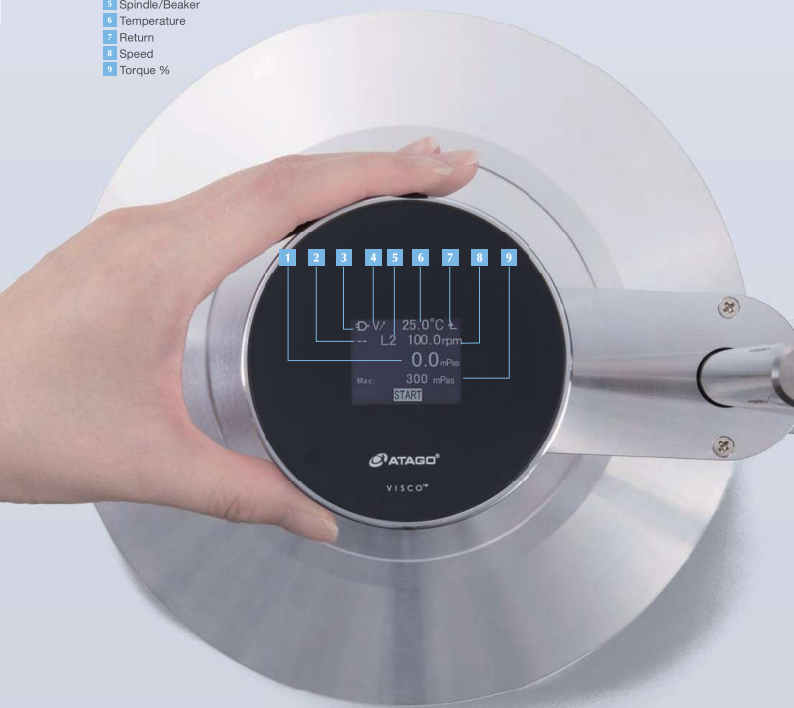
PRODUCTS

VISCO™ B (L)

< Measurement screen >

Measurement values are displayed large

- 1 Viscosity
- 2 User Scale
- 3 Power Supply Indicator/Remaining Battery Charge Indicator
- 4 Auto Stop
- 5 Spindle/Beaker
- 6 Temperature
- 7 Return
- 8 Speed
- 9 Torque %



Content

1	Main unit	1
2	Stand	1
3	Stand screws	3
4	Spindles(L1,L2,L3 and L4)	one each
5	Temperature sensor	1
6	Temperature sensor holder	1
7	Rod	1
8	Guard stirrup(L)	1
9	Guard stirrup(S)	1
10	Spindle extension	1
11	USB Mini-B cable (1m)	1
12	1.5V AA alkaline batteries	4
13	AC adapter	1
14	Spindle stand	1
15	Protective cap	1
16	Stopper	1
17	Inspection certificate	1
18	Instruction manual	1



4

Four types of spindles, L1, L2, L3, and L4 are included.



How to use

VISCO™ B (L)

Setup

Power ON

Level Check



Press the dial button
Press



Startup Screen → Main Menu Screen

From the main menu
Select "Level"



Rotate the main unit's legs
Position it upright



Not leveled

Leveled

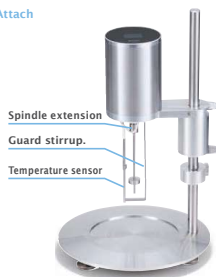
A screw-type height adjustment

Setup

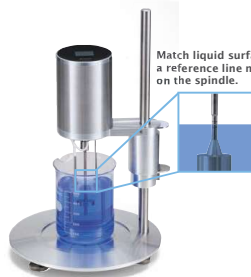
Measurement

Spindle/Guard stirrup/
Spindle extension/
Temperature sensor
Attach

Beaker Setup



Match liquid surface to a reference line marked on the spindle.



From the main menu
Select "Measurement"

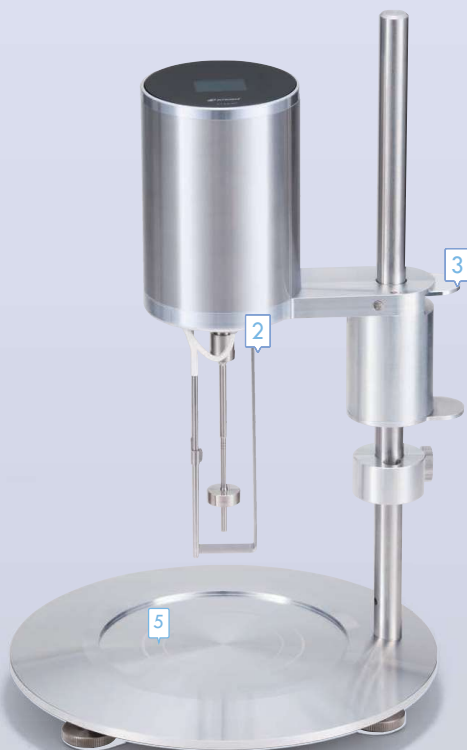


Spindle/Beaker/Speed Settings
Press "START"



QUALITY

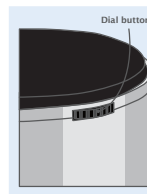
6 Reasons Why VISCO™ B(L) is Chosen



1

Easy Operation

ATAGO's VISCO™ B offers a simple set up and all operations can be done by one dial button for measurements which allows anyone to easily assemble and use.



2

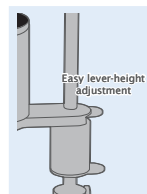
One Touch Spindle

Compared to the left-handed screw type that are commonly used with traditional Type-B viscometers, a spindle for VISCO™ B can be installed by simple one touch.

3

Smooth Height Adjustment

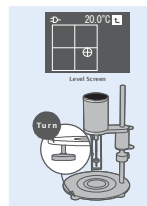
Many of the traditional Type-B viscometers that use left-hand screw requires to turn and twist screws to move it up and down causing tendonitis in some cases. With VISCO™ B, height can be adjusted simply by using a lever.



4

Digital Level Check

Traditional Type-B analog viscometers require visual check when leveling. VISCO™ B is digital and easily done.



5

Don't let reference lines confuse you

Where to place a beaker is important. VISCO™ B has easy to follow guideline that takes away the ambiguity.

6

Stylish design

The VISCO™ B offers futuristic design that will brighten and bring fun to any measurement sites.

PRODUCTS

Water Jacket (for 500mL Beaker)



Specifications

NEW

Cat.No.	6845
Compatible Beaker Size	IS R 30053 500mL Beaker JIS R 3053 300mL Tall Beaker
Temperature Setting Range	5°C to 70°C
Required Fluid Volume (Excluding the hoses)	500 Beaker approximately 90mL 300 Tall Beaker approximately 260mL
Dimensions & Weight	(W)147×(D)150×(H)144mm, 1.9kg



OPTION VISCO™

Optional Accessories

Part No.	Part Name
< Container >	
RE-79100	15mL Beaker
RE-79101	100mL Beaker
RE-78141	Cup Adapter (with 100pcs cups)
* 50pcs of paper cups and 50pcs of plastic cups are included.	
RE-79102	Paper Cup (90mL, 100pcs)
RE-79103	Plastic Cup (90mL, 100pcs)



< Ultra Low Adapter (ULA) >

RE-77120	Ultra Low Adapter (ULA)- Sample Adapter for Low Viscosity Sample			
	• Sample cylinder	• Hook	• Cylinder holder	• Hook holder
	• Extension (threaded tip)	• UL spindle	• UL stand	
RE-77107	UL spindle (with hook and hook holder)			
RE-77121	Sample cylinder (with cap and o-ring)			
RE-77117	UL spindle 3pcs (with hook and hook holder)			

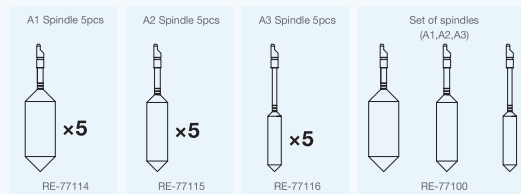
< Temperature sensor >

RE-75540	Temperature sensor
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< Spindle >

RE-77104	A1 Spindle
RE-77105	A2 Spindle
RE-77106	A3 Spindle
RE-77114	A1 Spindle 5pcs
RE-77115	A2 Spindle 5pcs
RE-77116	A3 Spindle 5pcs
RE-77100	Set of spindles (A1,A2,A3)

The extra spindles will reduce cleaning time spent on washing after each use and lead to increased productivity.



About Calibration

Calibration takes in consideration the relationship between the true value and the measurement value of the instrument. Calibration is an important task to ensure the reliability of the measurement results. It is recommended when there is drastic change in measurement environment or when questionable measurement results are shown. When considering periodical calibration, it is recommended to determined based on the circumstance in which the measuring instrument is used and measurement history.

VISCO™ Standard Liquid

One bottle of standard liquid will come with the instrument. Choose from the following viscometer standard liquid 200, 500, or 1000 at the time of order.

If you would like a viscosity liquid other than the above three points, please contact us separately.

Part No.	Part Name
<Standard liquid>	
RE-89030	Viscosity Standard Liquid 2 (100mL) (for ULA sample adapter)
RE-89031	Viscosity Standard Liquid 5 (100mL) (for ULA sample adapter)
RE-89036	Viscosity Standard Liquid 200 (100mL)
RE-89037	Viscosity Standard Liquid 500 (100mL)
RE-89038	Viscosity Standard Liquid 1000 (100mL)
RE-89039	Viscosity Standard Liquid 2000 (100mL)

* Shelf life 6 months.

Standard liquid with JCSS calibration certifications

If you would like a standard liquid with JCSS calibration, please click here.

Part No.	Part Name	Volume
<Standard liquid>		
RE-89010	STANDARD LIQUID JS2.5	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89011	STANDARD LIQUID JS5	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89012	STANDARD LIQUID JS10	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89013	STANDARD LIQUID JS20	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89014	STANDARD LIQUID JS50	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89015	STANDARD LIQUID JS100	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89016	STANDARD LIQUID JS200	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89017	STANDARD LIQUID JS500	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89018	STANDARD LIQUID JS1000	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89019	STANDARD LIQUID JS2000	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89020	STANDARD LIQUID JS14000	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89021	STANDARD LIQUID JS52000	Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89022	STANDARD LIQUID JS160000	Manufactured by Nippon Grease Co., Ltd (500mL)

OPTION

VISCO™ B(L)

Optional Accessories

Port No.	Port name
< Spindle >	
RE-77108	Spindle L1
RE-77109	Spindle L2
RE-77110	Spindle L3
RE-77111	Spindle L4

Circulating Constant Temperature Bath



60 - C5

Cat.No.1923

A circulating water bath for precise temperature control of refractometers without Peltier. The temperature range can be set from 10 to 60°C and its compact, easy to use design makes it optimal for connecting to a refractometer.

Temperature setting range	10.0 to 60.0°C (Temperature setting range is limited by ambient temperature, as well as the model of external connecting devices.)
Minimum temperature indication	0.1°C
Temperature accuracy	±0.2°C Conditions: At ambient temperature of 20°C, on stand-by, and using shortest tube (0.2m) with insulation.
Temperature control method	PID control using a thermo module
Pump capacity	Approx. 6 liters/min (When connected with a 0.2m tube with an internal diameter of 8mm.)
Power consumption	250VA
Environmental conditions	Temperature: 5 to 40°C, Humidity: 35 to 70% (No condensation formation.)
Safety device (features)	Water level monitor to prevent empty pump operation and overheating prevention feature.
Power supply	AC 100 to 240V , 50/60Hz
Dimensions and weight	204 (W) x 336 (D) x 289 (H) mm, approx. 9kg

About Calibration

Calibration takes in consideration the relationship between the true value and the measurement value of the instrument. Calibration is an important task to ensure the reliability of the measurement results. It is recommended when there is drastic change in measurement environment or when questionable measurement results are shown. When considering periodical calibration, it is recommended to determined based on the circumstance in which the measuring instrument is used and measurement history.

VISCO™ B(L)Standard Liquid

Port No.	Port name
<Standard liquid>	
RE-89053	Viscosity Standard Liquid 20 (500mL)
RE-89054	Viscosity Standard Liquid 50 (500mL)
RE-89055	Viscosity Standard Liquid 100 (500mL)
RE-89056	Viscosity Standard Liquid 200 (500mL)
RE-89057	Viscosity Standard Liquid 500 (500mL)
RE-89058	Viscosity Standard Liquid 1000 (500mL)
RE-89059	Viscosity Standard Liquid 2000 (500mL)

Standard liquid with JCSS calibration certifications

If you would like a standard liquid with JCSS calibration, please click [here](#).

Port No.	Port name
<Standard liquid>	
RE-89013	Standard liquid JS20 Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89014	Standard liquid JS50 Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89015	Standard liquid JS100 Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89016	Standard liquid JS200 Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89017	Standard liquid JS500 Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89018	Standard liquid JS1000 Manufactured by Nippon Grease Co., Ltd (500mL)
RE-89019	Standard liquid JS2000 Manufactured by Nippon Grease Co., Ltd (500mL)