VISCO™

Free your customers from the hardships that were taken for granted

Anyone can enjoy and enjoy taking viscosity measurements

The New Viscometer

PRODUCTS

VISCO™

Measurement range 1 to 350,000,000mP·s, 1 to 350,000,000cP

Photo Left: VISCO™ Front
Photo Right: VISCO™ Back

Portable Analytical Instrument Design

VISCO™ was awarded Bronze "IBO 2016 Industrial Design Awards" for "Portable Analytical Instrument Design" by Bioinformatics, Strategic Directions International. VISCO™ was awarded for excellence in its functionality and industrial design.

1344031, 1553531(JPN)
ZL 2015 3 0418745.5(CHN)
D176013(TWN)
US D796,362 S(USA)
30-0888538(KOR)
No 002906149-0001(EUIPO)
53070(IND)
Patent Granted in countries around the world.

Product lineup

VISCO™
Housing:SUS, Aluminum, Legs, and Stand & Screw:SUS
Weight:1.2kg(main unit only), Stand +screw:0.5kg

VISCO™-895 NEW
Housing:SUS, Aluminum/Legs, and Stand & Screw:SUS
Weight:895g(main unit only), Stand +screw:275kg

Specifications

Cat.No.	VISCO™	6800	
	VISCO™-895	6820 NEW	
Measurement range	A1	50 to 200,000mPa·s , 50 to 200,000cP	
	A2	100 to 600,000mPa·s , 100 to 600,000cP	
	A3	500 to 2,000,000mPa·s, 500 to 2,000,000cP	
	Torque	0.0 to 100.0% (recommended torque: 10.0 to 100.0%)	
	Temperature	10.0 to 40.0°C, 50.0 to 104.0°F	
Resolution	Viscosity	lower than 100mPa·s	:0.01mPa·s
		100mPa·s or higher lower than 10,000mPa·s	:0.1mPa·s
		10,000mPa·s or higher	:1mPa·s
	Torque	Lower than 10%	:0.01%
		10% or higher	:0.1%
	Temperature	0.1°C/0.1°F	
Measurement Accuracy	Viscosity	±1% of Maximum Viscosity	
	Temperature	±0.2°C/±0.4°F	
Speed	0.5 to 250rpm Number of Speeds: 20 levels		
Ambient Temperature	10.0 to 40.0°C / 50.0 to 104.0°F		
Environment Temperature	10.0 to 40.0°C		
Computer Communication	Output: USB - PC		
Battery Life (Approx.)	Approx. 7 hours (continuous operation at 60rpm)		
Power Supply	LR6 / AA alkaline batteries (x4) AC adapter input AC100 to 240V. 50/60Hz, 0.3A output 9V, 0.5A.		
Materials	VISCO™	Housing:SUS, Aluminum/Legs, and Stand & Screw:SUS	
	VISCO™-895	Housing:SUS, Aluminum/Legs, and Stand & Screw:SUS	
Dimensions & Weight	VISCO™	12×12×20cm, 1.2kg(main unit only), Stand +screw:0.5kg Small volume beaker attachment: 0.1kg	
	VISCO™-895	12×12×20cm, 895g(main unit only), Stand +screw:275kg Small volume beaker attachment: 0.1kg	

*The above specifications apply only to measurements taken using the standard accessories.

PRODUCTS

VISCO™

Package Contents

VISCO™ and VISCO™-895

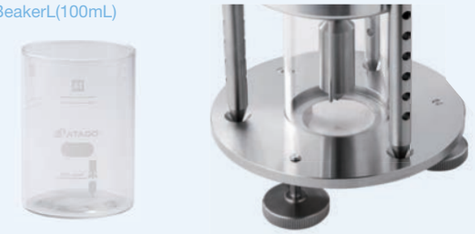
1	Main unit	1
2	Stand	1
3	Spindles (A1, A2 and A3)	one each
4	Temperature sensor	1
5	Small volume beaker attachment	1
6	S Beaker (15mL)	1
7	L Beaker (100mL)	1
8	AC adapter	1
9	USB Mini-B cable (1m)	1
10	1.5V AA alkaline batteries	4
11	Instruction manual	1
12	Inspection certificate	1
13	Spindle stand	1
14	Protective cap	1
15	Carrying case	1
16	Viscosity standard liquid*	1

* One bottle of viscosity standard liquid 200, 500, or 1000 is included. Select one when ordering. For further details, refer pg. B46. Contact ATAGO for other viscosity standard liquid.

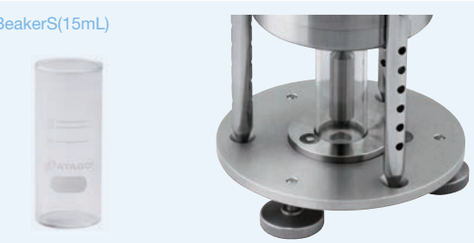
6 7

15mL and 100mL beakers are included.

BeakerL(100mL)



BeakerS(15mL)



How to use

VISCO™

Setup → Power ON → Level Check

Press the dial button

Press

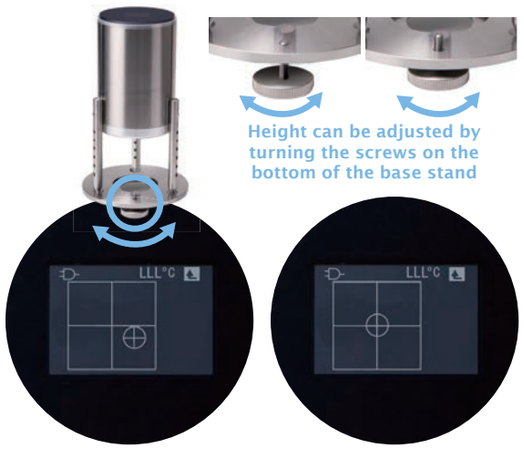
Startup Screen → Main Menu Screen

From the main menu

Select "Level"

Rotate the main unit's legs

Position it upright



Height can be adjusted by turning the screws on the bottom of the base stand

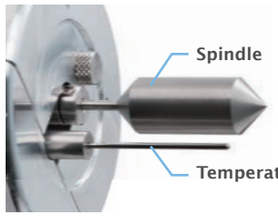
Not leveled

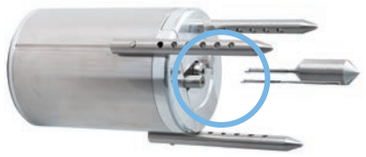
Leveled

Setup → Measurement

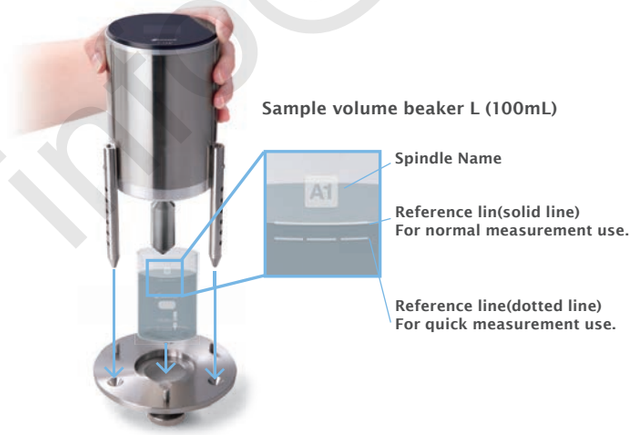
Spindle and temperature sensor

Attach





Beaker Setup



From the main menubutton

Select “Measurement”

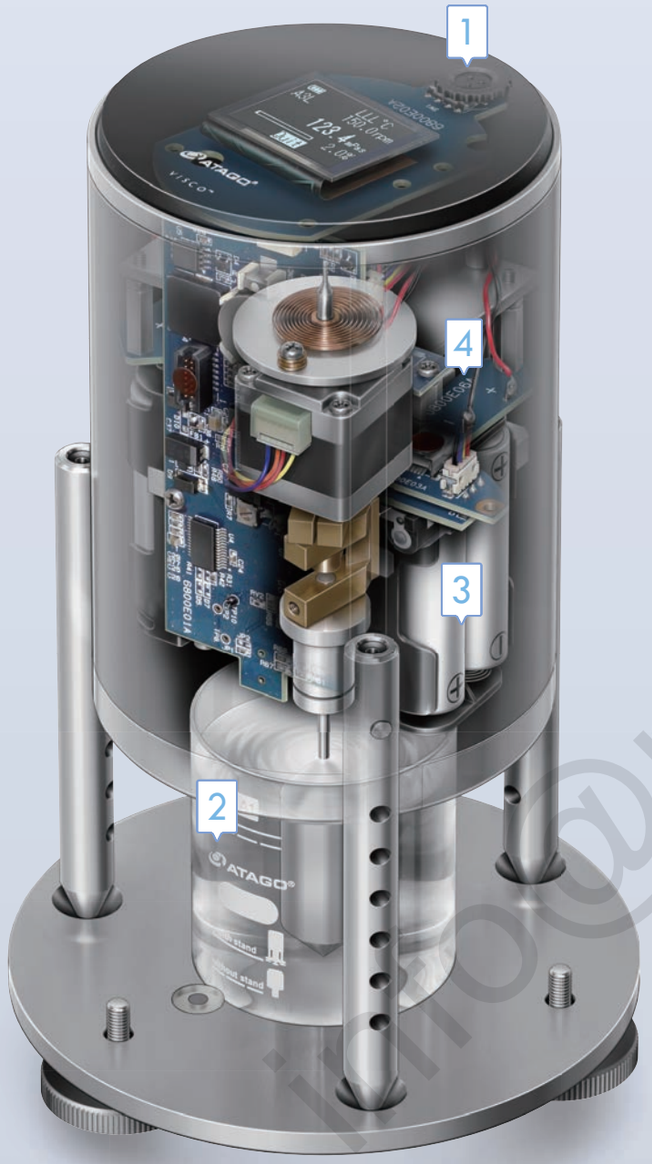
Spindle/Beaker/Speed Settings

Press “START”

QUALITY

8 Reasons Why VISCO™ is Chosen

A rotational viscometer that is used worldwide. VISCO™ is a rotational viscosity meter, but it looks a little different than the traditional viscometers. What is the difference?



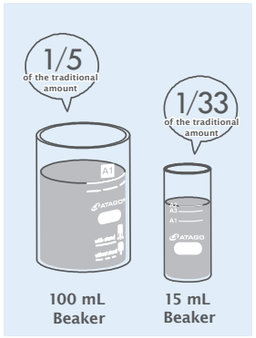
1 Simple Operation

VISCO™ offers extremely comfortable operation compared to B type viscometers. Only one button is needed for operation.

2 Remarkably Small Sample Volume

The B-type viscometer required a sample of 500mL for measurement, but the VISCO™ can be measured in small samples of 100mL or 15mL. This can minimize sample volume of valuable samples. It is also effective for measuring expensive samples because it reduces running costs for viscosity measurement.

Many samples are viscous, and cleaning after measurement takes time, but the reduced amount of samples makes cleaning easier and increases productivity.



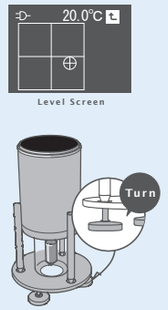
3 Battery Powered

Battery power allows VISCO™ to take viscosity measurements without worrying about where the power supply is. Since it is possible to continuously use for seven hours on battery power, you can use it at ease "anywhere" and in "any situation." * AC power supply is also included as standard.

4 Digital Level Ajustment

Rotational viscometers cannot measure viscosity sufficiently unless the equipment is installed horizontally.

The B-type viscometer was visually adjusted using a horizontal instrument, while the VISCO ™ enables digital level adjustment for more accurate judgment than visually adjusting by incorporating a gyroscope sensor.



5 Cost Performance

In addition to adding value to the functional aspects, a price range is set at a point where it is easy for anyone to purchase.

QUALITY

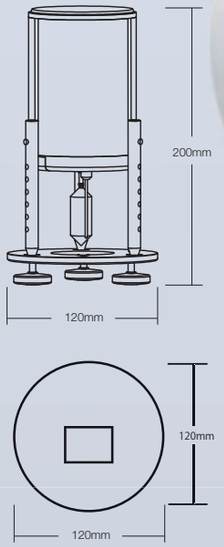
8 Reasons Why VISCO™ is Chosen

Great ingenuity and user-friendly features

< Measurement screen >
Measurement values a displayed large

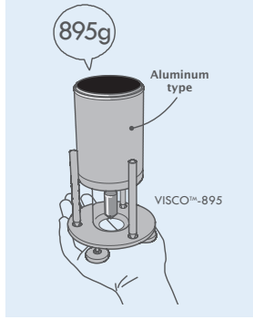
1. Viscosity
2. User Scale
3. Ppower Supply Indicator/Remaining Battery Charge Indicator
4. Auto Stop
5. Spindle/Beaker
6. Temperature
7. Return
8. Speed
9. Torque %

Dimensional drawing



6 Light Weight and Compact Design

The VISCO™ is a compact and lightweight of 895 g to 1.2 kg*1 viscometer that can be carried anywhere and it can be setup where space is limited. There is no need to buy multiple viscometers, but one VISCO™ can be carried in a lab or in the manufacturing field. It frees you from cumbersome conversion tasks from one viscometer types to another. There is no financial burden because you only need one VISCO™.
*1VISCO™-895:895g, VISCO ™: 1.2kg



7 Enhanced Features

(1) Auto stop function

Some samples are called non-Newtonian fluids, and measurements are not stable at the begging. For example, if the sample measurement is known to stabilize after 10 minutes from the start, the operator will have to stay put on the spot for 10 minutes until it stabilizes. With the auto-stop function, measurements will automatically stop after 10 minutes and the measurement is displayed. It is a function that can effectively utilize the manpower of those that take measurements.

(2) User scale function

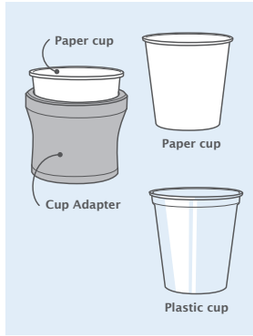
By using this function, the measurement from VISCO ™ can be set to match the value measured by Type B viscometer. One of the many reasons customers hesitates to update their instrument is that they cannot discard their previous measurements. The user scale function allows to offset previous measurements. When you enter three viscosity values measured with VISCO™ and three viscosity always measured by a conventional B-type viscometer, the built-in software calculates and automatically applies the conversion formula.

(3) Moving average function

It is equipped with a moving average function to display the average value of the last five minutes. For example, for very low-concentration samples, continuous measurements may not show stable measurements. In such cases, it is possible to show stable measurements by turning on the moving average function on.

8 Disposable container

The use of disposable containers has been made possible.
A dedicated cup adapter allows the use of 90mL paper or plastic cups. The B-type viscometer was difficult to use in food production sites where glass containers were prohibited, but disposable containers can solve the problem.



VISCO™ Package

With package A, disposable containers can be used instead of the beakers and package B is available for low viscosity sample measurements

Package Plan Suggestions

Package A
Attach a paper cup or a plastic cup and a cup adapter to the stand.

Don't take glass products to the production floor again.

As long as it fits the cup adapter, other disposable cups besides what is included can be used. This makes taking measurements possible where the use of glass products are prohibited.

VISCO™ Package A Cat.No.6810	VISCO™-895 Package A Cat.No.6830
VISCO™ Main Unit (accessories included) Cup Adapter (with 100pcs cups):RE-78141	VISCO™-895 Main Unit (accessories included) Cup Adapter (with 100pcs cups):RE-78141

*50 pcs of paper cups and 50 pcs of plastic cups are included.

Package B
Use It by placing VISCO™ on the base of Package B.

Low viscosity (1 to 2,000 mP·s) samples can be measured

Available as a package that comes with Ultra Low Adapter (ULA) for measuring low viscosity samples and VISCO™ (main unit).

VISCO™ Package B Cat.No.6811	VISCO™-895 Package B Cat.No.6831
VISCO™ Main Unit (accessories included) Ultra Low Adapter (ULA) : RE-77120	VISCO™-895 Main Unit (accessories included) Ultra Low Adapter (ULA) : RE-77120

Package C

The package C includes contents of package A & B

VISCO™ Package C Cat.No.6812	VISCO™-895 Package C Cat.No.6832
VISCO™ Main Unit (accessories included) Cup Adapter (with 100pcs cups):RE-78141 Ultra Low Adapter (ULA) : RE-77120	VISCO™-895 Main Unit (accessories included) Cup Adapter (with 100pcs cups):RE-78141 Ultra Low Adapter (ULA) : RE-77120

Package D NEW

Temperature controller for VISCO™

VISCO™Package D Cat.No.6813	VISCO™-895 Package D Cat.No.6833
VISCO™ Main Unit (accessories included) VISCO Temp Controller Main Unit (accessories included)	VISCO™-895 Main Unit (accessories included) VISCO Temp Controller Main Unit (accessories included)

VISCO™ Package

VISCO™ Temp Controller

The temperature controller is a lightweight, compact and constant temperature device that does not require water circulation.

Specifications

NEW

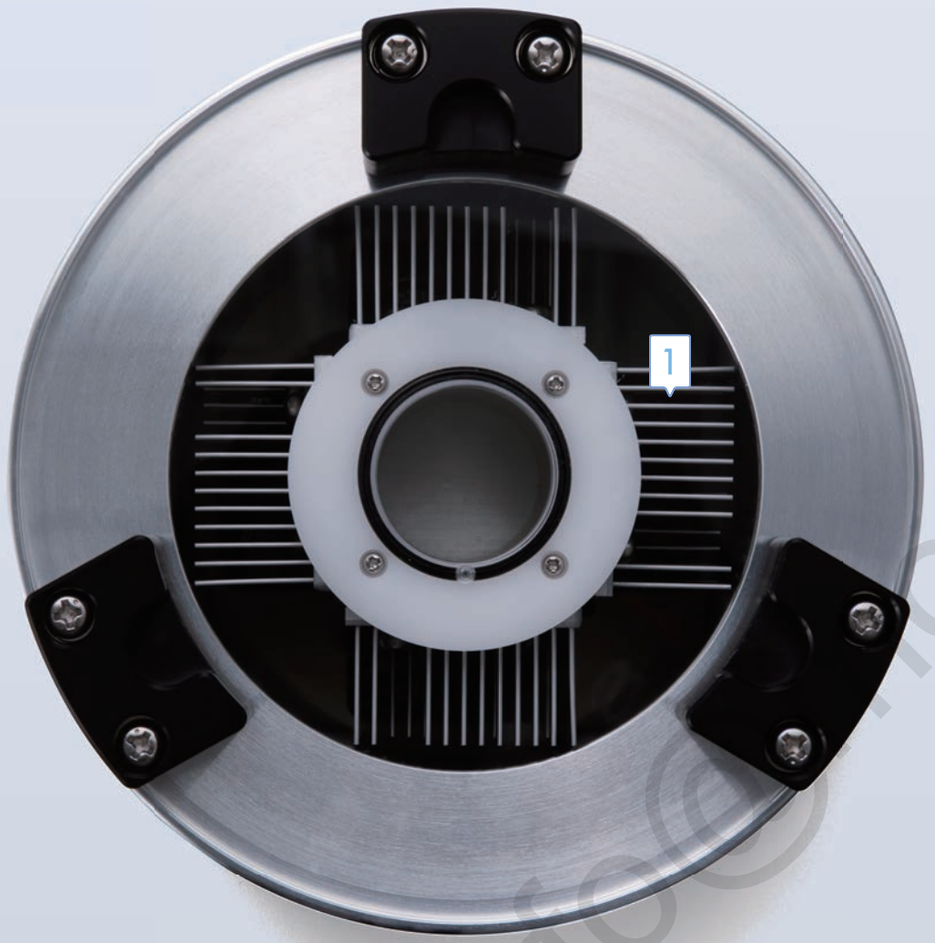
Cat.No.	VISCO™ Temp Controller	6900
Constant temperature setting range	5.0 to 90.0°C No lower than 10°C below or higher than 50°C above the ambient temperature)	
Resolution	0.1°C	
Accuracy	±0.2°C (at20°C)	
Environmental conditions	Temperature 5 to 40°C Humidity 35 to 70%(No condensation)	
Materials	Cup:Aluminum, Cup cover:PP	
Power supply	AC100 to 240V 50/60Hz	
Dimensions and Weight	Thermo module unit 130(φ)×162(H)mm, 2.7Kg Control unit 130(φ)×82(H)mm, 1.2Kg	

LED Specifications

Green	Red	Thermo module unit		LCD
● Light up	Off	ON	[Temperature] Present = Target	Present temperature
Flash	Off	ON	[Temperature] Present = Target	Present temperature
Off	Off	OFF		Present temperature
● Light up	● Light up	OFF(Set up mode)		Target temperature
Off	● Light up	OFF(Error)		Error messages

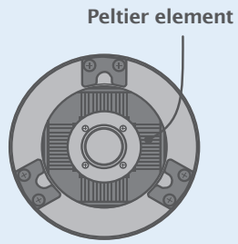
VISCO™ Package

6 Reasons Why VISCO™ Temp Controllor is Chosen



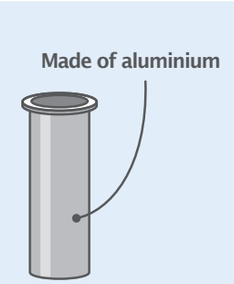
1 No water required

Becasue the viscosity is highly affected by temperature the test conditions to measure viscosity should be tightly controlled. Circulating baths are the most common choice for temperature control of test samples when performing viscosity measurements. It circulates water to control the temperature, but VISCO™ Temp Controller uses peltier module without needing to circulate water.
VISCO™ Temp Controller is more hygienic and does not require heavy loads preparation and disposa of water.



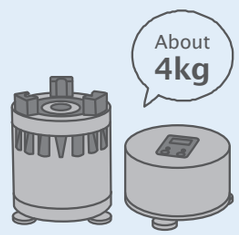
2 Reduced Time Spent

The time it takes for circulating water baths to adjust temperature can be long. In addition, for those that are not familiar can take more than 30 minutes to set it up, and eaily spending more than 1 hour for prep time. The VISCO™ Temp Controller that requires no waiting for water to warm will need less time to control the sample temperature. Additionally, the aluminum sample holder allows heat to transfer quicker reducing even more time.



3 Lightweight and Compact

The total weight is about 4 kg and temperature control unit only is merely 2.7 kg. Less than half the weight of a typical constant temperature water bath. The size is just about the size of VISCO™ fitting perfect, without worrying about workspace.

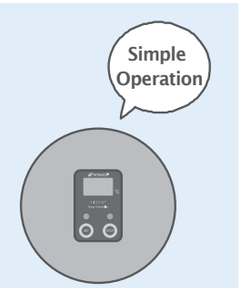


VISCO™ Package

6 Reasons Why VISCO™ Temp Controllor is Chosen

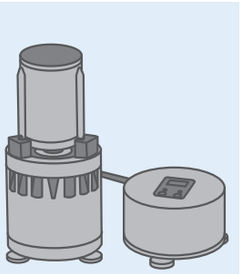
4 Simple Operation

It is operated by two buttons. Despite the common notion that “apparatus and devices used for experiments are considered difficult without being a researcher or expert,” it is an easy to use product that anyone can use.



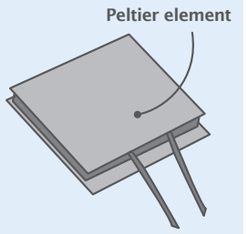
5 Uncompromised Design

A novel and stylish design that reverses the image of such conventional viscosity measurement, It can offer not only usability, but also an environment where users can comfortably measure viscosity.



6 Environmentally friendly

Stress free from loud noise or vibration and environmentally friendly because it does not use refrigerants such as fluorocarbons.



VISCO™ B(L)

Liberation from All Previous Hussle

New Type of Digital Viscometer

PRODUCTS

VISCO™ B(L)

Liberation from All Previous Hussle 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
		100mPa·s or higher lower than 10,000mPa·s	:0.1mPa·s
		10,000mPa·s or higher	:1mPa·s
	Torque	Lower than 10%	:0.01%
		10% or higher	:0.1%
	Temperature	0.1°C/0.1°F	
Measurement Accuracy	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	

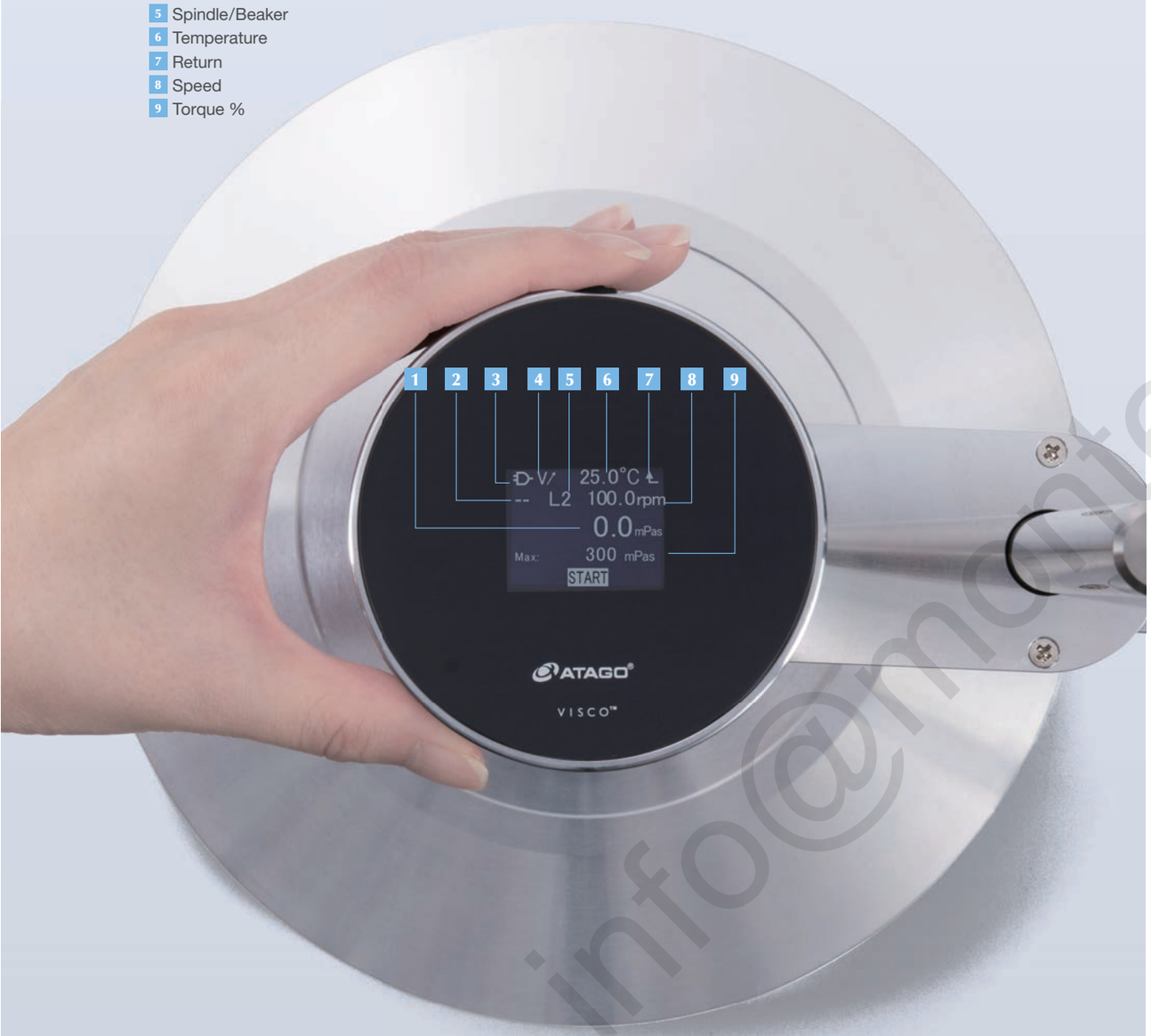
PRODUCTS

VISCO™ B (L)

< Measurement screen >

Measurement values a displayed large

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

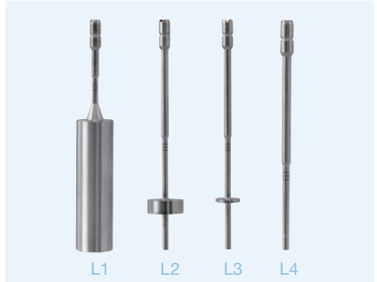


Content

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)

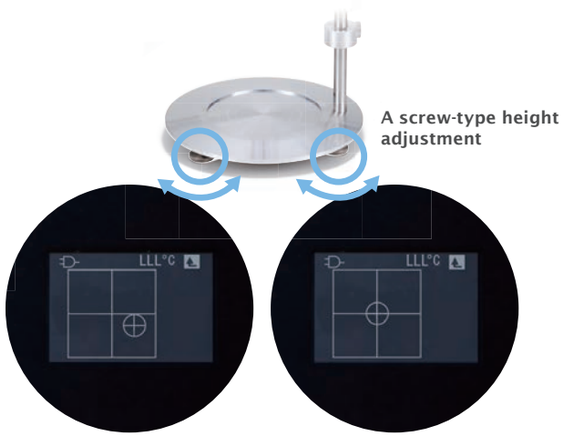
Setup → Power ON → Level Check

Press the dial button
Press

Startup Screen → Main Menu Screen

From the main menu
Select "Level"

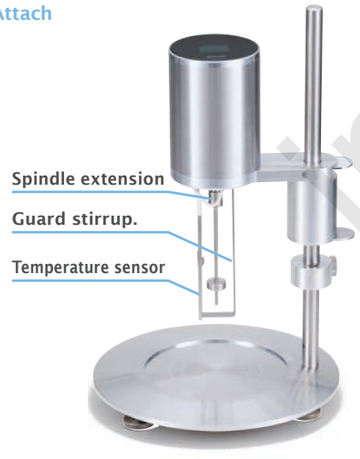
Rotate the main unit's legs
Position it upright



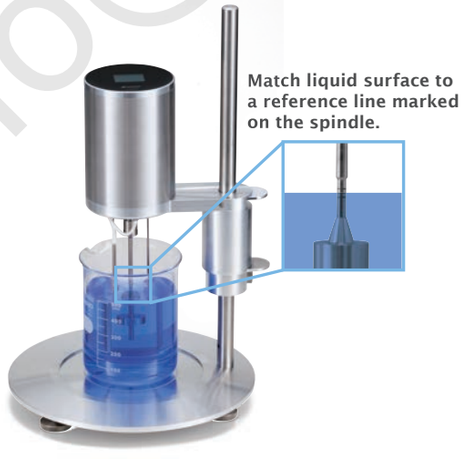
Not leveled Leveled

Setup → Measurement

Spindle/Guard stirrup./
Spindle extension/
Temperature sensor
Attach



Beaker Setup



From the main menu
Select "Measurement"

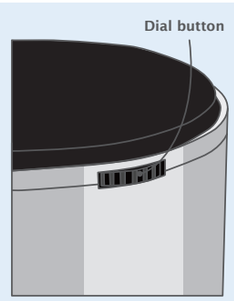
Spindle/Beaker/Speed Settings
Press "START"

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.

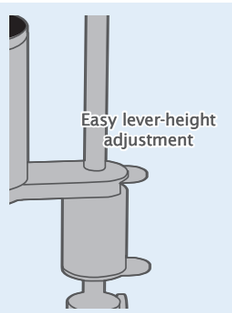


2 One Touch Spindle

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.

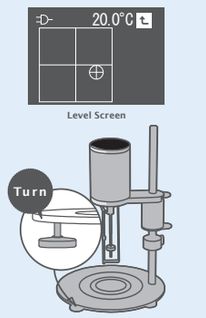
3 Smooth Height Adjustment

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)

NEW

Specifications

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)

15mL Beaker

RE-79100

100mL Beaker

RE-79101

Paper Cup (90mL, 100pcs)

RE-79102

Plastic Cup (90mL, 100pcs)

RE-79103

< 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 fook and fook 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

< 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.

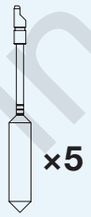
A1 Spindle 5pcs

RE-77114

A2 Spindle 5pcs

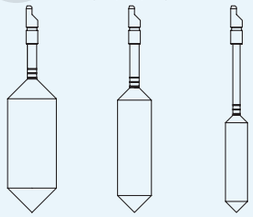
RE-77115

A3 Spindle 5pcs



RE-77116

Set of spindles (A1,A2,A3)



RE-77100

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 consiering 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)

*Shelflife 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

Part No.	Part 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.)
Safey 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 consiering 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

Part No.	Part 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.

Part No.	Part 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)

Frequently asked Q & A

What is the difference between VISCO™ and VISCO™-895?

VISCO ™ is the SUS model, and the VISCO ™-895 is an aluminum model. The main unit weighs 1.2kg (VISCO™) and 895g (VISCO™-895).

Please choose accordingly.

Is there anything else I need besides the main unit?

The VISCO ™ and VISCO ™-895 comes with the main unit as well as the spindles, thermometer and beakers required for measurements. You can start measuring as soon as you take it out of the box.
For low viscosity samples, purchase Package B with a low viscosity adapter.

Select a sindle speed.

Three types of spindles are included. Please contact our sales department for the selection guidance. There are also guidelines for each type of beaker size, speed, and spindle in the instruction manual.
Note that when the torque is less than 10%, the load is not enough. Be sure to choose to between 10 and 100%.

When speed and/or the size of the beaker is changed, it shows different viscosity measurements. Is it measuring correctly?

When the speed and/or the size of the beaker is changed, the viscosity also changes. This is because the viscosity is influenced by measurement conditions.
When measuring the same sample, use the same measurement conditions.

The spindle has a reference and fill lines, but which one should I match?

Please measure by putting the sample to the reference line.

Is it possible to output data?

Data can be output using a USB-Mini-B cable.

<VISCO™>

Why is water not measured as 1mPas?

The viscosity of the water is defined as 1mPa·s, but this is a theoretical value, not a measured value. In fact, because various conditions may affect measurements, a value close to 1 is displayed.

Can it be calibrated?

It can be calibrated using a viscometer standard solution. For the value of the standard liquid, please check the measured value in the accompanying instruction manual.
Please refer to P.B47.

Does it correlate to B type viscometer?

There are samples that can be correlated samples and others not. Free trial unit can allow you to check for correlations.
If there is a correlation, you can set the same value to display by using the user scale function.

Can temperature be adjusted?

Temp controller can be used. Be careful not to let water in the sample.

How much sample do I need?

It can be measured at 15mL when using the beaker S (included) and 100mL when using the beaker L.

What kind of maintenance is required?

Use the viscosity standard liquid optionally sold regularly.

How can hot samples be measured?

Set the wait time to create a temperature compensation table for the measurement sample.
For more information, please ATAGO.

Implementation Results

Food

- Ankake (Food thickened with starch)
- Rice porridge
- Curry
- Gelatinized food (Jello/Agar)
- Konjac jelly
- Syrup (Chinese medicine)
- Jam
- Tomato jam
- Blueberry jam
- Thickening agent
- Tororo (Grated Japanese Yam)
- Pickle brine
- White sauce
- Pureed food
- Mozuku (edible seaweed/cladosiphon okamuranus)
- Yogurt
- Boil-in-the-bag food
- seaweed
- Yeast extract
- Yamaimo (mountain yam)
- Food raw material
- Food coloring pigment
- Tsukudani (seafood, meat or seaweed that has been simmered in soy sauce and mirin) stock
- Starch
- Sugar solution
- Molasses
- Emulsified bittern
- Lactic acid yeast
- Fermentation broth
- Vegitable puree
- Dysphagia diet
- Ice cream mix
- Ice cram crepe/Monaka (wafers) batter
- Anpo-gaki (Semi-dried persimmons)
- Jello
- Dorayaki (Japanese red bean pancake) batter
- Pudding
- Bean paste
- Mizuame (Japanese sweetner)
- Corn soup
- Soup
- Tomato juice
- Amazake (Fermented Japanese Rice Drink)
- Milk
- Potage soup
- Soymilk
- Frozen drink
- Juice
- Coffee extracts
- Sauce
- Tare sacue
- Cheese sauce
- dressing
- Mitarashi (sweet soy) glaze
- Karaage marinade (Chicken marinade)
- Liquid miso
- Gochujang
- Fish broth (extracts)
- Fish sauce
- vinegar
- miso
- Batter liquid
- Bread dough
- Spring roll skins

Industrial

- Liquid resin
- Non-slip resin
- Two-part epoxy resins
- Resin solution
- Liquid polymer
- Coating solution
- Silicone
- Cement
- Toluene solution
- Hard coat liquid
- PVC solution (sheet material)
- Processing solvent
- Adhesive
- Solvent adhesive
- Antifreeze agent
- Surface treatment agent
- Anti-carburization agent
- Inorganic solvent
- Ink
- Ink for inkjet
- Color fixative (ink)
- Paint
- Paint (Automotive parts/medical devices)
- Oil (metal slurry)
- Slurry
- Light oil
- Inudstrial Oil
- Heavy oil
- Lubricant
- Essential oil
- Cutting oil
- Hydraulic oil
- Car Wash Soaps
- Cleaning Solution
- Cleaning Solution
- Cleaning Raw Material
- Paint
- Oil
- Washing soap

Others

- Cosmetic cream
- Cosmetics
- Emulsion
- Hair Care Products
- shampoo
- Aromatic oil
- Hair Care Products
- Pharmaceutical raw material
- Starch liquid
- Starch paste
- Thickener
- Buffer solution
- Pigment
- Enzyme
- Reagent
- Contrast Agent
- Fertilizer Raw Material
- Buffer solution
- Propolis
- Methane Fermentation Digested Slurry
- Monomer
- Fungicide
- Chitin
- Collodion

Please turn over and flip upside down from the next page.