The New

Fungilab Portable Viscometer

For easy and precise measurements of fluid viscosity

The FPV 01/02 is designed for quality control applications in the manufacturing process of industrial products such as petrochemicals, paint, and adhesives, as well as foodstuffs. Viscosity measurements covering a wide range are possible, such as gear oil used in construction machinery.

Measurement is performed by simply submerging a rotor in the fluid. The resistance to rotor movement caused by viscosity (torque) is measured to obtain readings.

- **Compact and light weight: The unit is portable and allows for one-handed operation**
- **Direct indication of viscosity in millipascal-seconds or decipascal-seconds (SI Units)**
- **Optional stand for measurement available**

SPECIFICATIONS

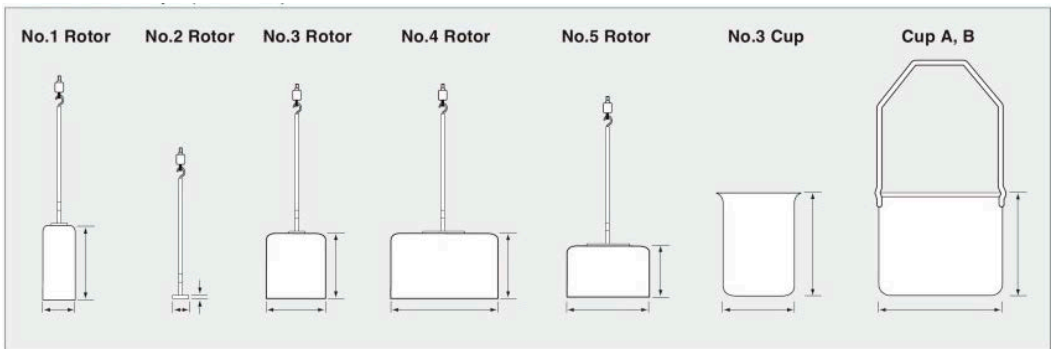
	FPV 01 (Low Viscosity)			FPV 02 (High Viscosity)		
Measurement Range	No. 4 rotor: 2 to 33 mPa·s No. 5 rotor: 15 to 150 mPa·s No. 3 rotor: 50 to 300 mPa·s			No. 3 rotor: 0.3 to 13 dPa·s (with No. 3 cup) No. 1 rotor: 3 to 150 dPa·s (with JIS 300 mL beaker) No. 2 rotor: 100 to 4000 dPa·s (with JIS 300 mL beaker)		
Sample Fluid Capacity	Approx. 460 mL (with Cup A or Cup B)			No. 1 and No. 2 rotor (with JIS 300 mL beaker) approx. 300 mL No. 3 rotor (with No. 3 cup) approx. 170 mL Clearance between rotor end and cup bottom: about 15 mm.		
Measurement Accuracy	Within ±5% of maximum measurement range for each rotor			±10% of indicated value, reproducibility ±5%		
Rotor Speed	62.5 rpm					
Power Supply	IEC LR6 (size AA) alkaline batteries, nickle-hydride rechargeable batteries, AC adapter VA-05J					
Dimensions and Weight	175 (H) x 77 (W) x 40 (D) mm (without protruding parts). Approx. 260 g (without batteries)					
Supplied Accessories	No. 3 rotor (dia. 45 x 47 x 160 mm)	SUS304	1	No. 1 rotor (dia. 24 x 53 x 166 mm)	SUS304	1
	No. 4 rotor (dia. 78 x 46 x 159 mm)	A1050 (alumite)	1	No. 2 rotor (dia. 15 x 1 x 113 mm)	SUS304	1
	No. 5 rotor (dia. 61.2 x 36 x 149 mm)	A1050 (alumite)	1	No. 3 rotor (dia. 45 x 47 x 160 mm)	SUS304	1
	Cup A (dia. 92 x 76 mm, without hole)	A1050 (alumite)	1	No. 3 Cup (dia. 45 x 47 x 160 mm)	SUS304	1
	Cup B (dia. 92 x 76 mm, with hole)	A1050 (alumite)	1	Extension rod (900mm, 300x3)	SUS304	1
	IEC LR6 (size AA) alkaline batteries		4	IEC LR6 (size AA) alkaline batteries		4

1 JIS R 3503 : 1994 78x103

Options

Product Name	Product Number
Stand	VA-04
AC Adapter	VA-05J

ROTORS AND CUPS (UNIT: mm)



VISCOTESTER MEASUREMENT EXAMPLES (FOR REFERENCE)

Product Type	Viscosity		Viscotester	Rotor
Newtonian Fluids:				
Milk	2.6	mPa·s	FPV 01	No. 4
Soy Sauce	5	mPa·s	FPV 01	No. 4
Lactic Fermented Beverage	28	mPa·s	FPV 01	No. 5
Olive Oil	71	mPa·s	FPV 01	No. 5
Castor Oil	6	dPa·s	FPV 02	No. 3
Starch Syrup	1000	dPa·s	FPV 02	No. 2
Non-Newtonian Fluids:				
Tomato Juice	230	mPa·s	FPV 01	No. 3
Condensed Milk	16	dPa·s	FPV 02	No. 1
Chocolate Syrup	25	dPa·s	FPV 02	No. 1
Tomato Ketchup	43	dPa·s	FPV 02	No. 1
Pure Honey	76	dPa·s	FPV 02	No. 1
Toothpaste	320	dPa·s	FPV 02	No. 2
Starch Paste	310	dPa·s	FPV 02	No. 2

SAMPLE AMOUNT FOR MEASUREMENT

	FPV 01	FPV 02
Cup A	approx. 460 mL	—
No. 3 Cup	—	approx. 170 mL
Commercially available 300 mL beaker	—	approx. 350 mL

Note: For certain fluids, readings may differ slightly from other viscometers, depending on properties of target fluids, mechanical factors, as well as specific gravity, rotor speed, and other aspects.

CGS UNIT AND SI UNIT

P (poise), cP (centi poise),
Pa·s (pascal-seconds), dPa·s (decipascal-seconds),
mPa·s (millipascal-seconds)

$$1\,cP = \frac{1}{1000}\,Pa \cdot s = 1\,mPa \cdot s$$

$$1\,P = \frac{1}{10}\,Pa \cdot s = 1\,dPa \cdot s$$

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