

Viscometr IKA ROTAVISC hi-vi II complete package

800 - 320.000.000 mPas

The ROTAVISC series determines the viscosity of liquids in all areas of application ranging from the laboratory to quality control.

The four devices measure in different viscosity ranges. Regardless of a simple or demanding viscosity measurement - the ROTAVISC delivers rapid and accurate results.

The scope of delivery includes a standard spindle set (SP1-SP4), a protective bracket, PT100 temperature sensor and ROTASTAND stand.

Easy to operate

The generous 4.3" TFT display allows for an intuitive menu guidance.

A digital level device also supports the correct setting of start conditions.

The simple ramp function simplifies repetitive tasks.

Highest measurement accuracy

The level of measurement accuracy of the ROTAVISC rotational viscometer for both Newtonian and non-Newtonian fluids is +/- 1 % of the measuring range. The reproducibility is +/- 0.2 %.

Stepless speed

ROTAVISC is a viscometer, which offers stepless speed adjustment.

Accessories:

ROTAVISC viscometers determine the viscosity of liquids in all areas of application, from the laboratory to quality control.

Since the impellers in the standard supply are not suitable for measuring the viscosity of all samples, a number of impeller sets are available that meet various requirements.

The right accessory for every viscosity measurement: from silicone oil to different adapters for various samples

- **VAN-1** The vane impeller set allows measurement of the viscosity of suspensions and has a very low impact on the sample during impeller immersion. The set consists of four vane impellers.

- **VOLS-1** The viscosity of particularly valuable and expensive samples is measured with the low volume impeller set. The set includes a thermostatable chamber with temperature sensor to rapidly heat or cool the sample and a system of coaxial cylinders for analyzing samples at specific shear rates and stresses.

The supply includes 1 impeller for 6.7 ml, generally used with ROTAVISC lo-vi.

- **ELVAS-1** With the standard set of impellers it is not possible to measure very low viscosities.

For this reason, for extremely low viscosities, we recommend using the ELVAS-1 impeller set.

The set includes a thermostatable chamber for rapidly heating or cooling the sample, as well as a coaxial cylinder system for analyzing the sample at a specific speed and shear stress.

This 16 ml impeller, commonly used with the ROTAVISC lo-vi, allows measurements from 1 mPas (water temperature at 20 ° C).



The impeller without the water jacket can also be used in user containers.
The maximum measurable viscosity is 2000 mPas.

- **DINS-1** The DINS-1 impeller set measures viscosity according to DIN 53019.

The set includes a thermostatable chamber to heat or cool the sample and three different impellers and chambers: DIN-SP-5 fixed volume 17.0 ml with the DIN-C-1 chamber, DIN-SP-6 fixed volume 6.5 ml with the chamber DIN-C-2 and DIN-SP-7 fixed volume 2.0 ml with the chamber DIN-C-2 (small opening).

The maximum measurable viscosity is 50,000 mPas.

- **O-DINS-1** The O-DINS-1 open impeller set measures viscosities according to DIN 53019 and can be used with customer specific containers.

The set includes a single open chamber for rapid immersion in the liquid sample and a system of coaxial cylinders for analyzing the sample at a specific speed and shear stress.

The maximum measurable viscosity is 50,000 mPas.

- **SAS-1** The spiral adapter set (SAS-1) measures the viscosity of very sticky and viscous samples.

Furthermore, it is possible to analyze the behavior of the fluid at different cutting speeds.

Technical data

Viscosity Measuring Range	320000000 mPas
Viscosity Accuracy (FSR)	1 %
Viscosity Repeatability (FSR)	0.2 %
Spring torque	5.7496 mNm
Guard rail	me-vi
Measuring spindle series	SP set-2
Motor rating output	4.8 W
Overload protection	yes
Direction of rotation	right
Display	TFT
Speed display	TFT
Speed range	0.01 - 200 rpm
Setting accuracy speed	±0.01 rpm
Speed adjustment	TFT
Torque display	yes
Torque measurement	yes
Timer	yes
Timer display	TFT
Time setting range	0.017 - 6000 min
Temperature measurement resolution	0.1 K
Working temperature display	TFT
Connection for ext. temperature sensor	PT 100
Graph function	yes
Operating mode	timer and continuous operation
Calibration option	yes
Touch function	yes
Permitted density	9999 kg/dm ³
Working temperature	-100 - 300 °C
Fastening on stand	extension arm

Support rod diameter (with integrated fastening on stand)	16 mm
Telescope stand stroke	200 mm
Plug-in coupling (Ø)	12 mm
Basic container volume	600 ml
Stand	Rotastand
Stroke max.	61 mm
Diameter	16 mm
Dynamic load	5 kg
Dimensions (W x H x D)	351 x 629 x 372 mm
Weight	7.1 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class according to DIN EN 60529	IP 40
RS 232 interface	yes
USB interface	yes
Voltage	100 - 240 V
Frequency	50/60 Hz
Power input	24 W
Power input standby	0.06 W
DC Voltage	24 V=
Current consumption	1000 mA

Code	Description	Viscosity measurement range mPas
I6113829	Viscometr IKA ROTAVISC hi-vi II complete package	800 - 320.000.000