



designed for scientists



IKA ROTAVISC SBS me-vi HELI Complete

/// Data Sheet

The SBS (Steel Ball Bearing, Suspended) rotational viscometers extend a large part of the application spectrum of our IKA ROTAVISC device family.

Instead of a jewel bearing, these devices are equipped with a special ball bearing technology. They are characterized by their high robustness. Predestined for applications with very high sample throughput, frequent spindle changes, operation in harsher environments, or even frequently changing device locations.

Whether simple or demanding viscosity measurements - with ROTAVISC you get fast and accurate results.

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Subject to technical changes



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Viscosity measurement in motion

The motorized IKA HELISTAND moves the mounted viscometer and its rotating body slowly and uniformly up and down in the sample.

Easy to use

Intuitive menu navigation awaits you via the generous 4.3" TFT display. A digital leveling also supports the correct setting of the starting condition. Recurring tasks are facilitated by the simple ramp function.

Highest measurement accuracy

The accuracy of the ROTAVISC rotary viscometers for Newtonian and non-Newtonian liquids is +/- 1 % of the measuring range. The reproducibility is +/- 0.2%.

Infinitely variable speed

With ROTAVISC you have a viscometer in which you can adjust the speed stepless, but also specify programs or individual speed levels.

Viscosity-Measuring range: 100 - 40.000.000 mPas

Technical Data

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|--|--------------------------------|
| Viscosity Measuring Range [mPas] | 40000000 |
| Viscosity Accuracy (FSR) [%] | 1 |
| Viscosity Repeatability (FSR) [%] | 0.2 |
| Spring torque [mNm] | 0.7187 |
| Guard rail | me-vi |
| Measuring spindle series | SP set-2 |
| Motor rating output [W] | 4.8 |
| Overload protection | yes |
| Direction of rotation | right |
| Display | TFT |
| Speed display | TFT |
| Speed range [rpm] | 0.01 - 200 |
| Setting accuracy speed [rpm] | ±0.01 |
| Speed adjustment | TFT |
| Torque display | yes |
| Torque measurement | yes |
| Timer | yes |
| Timer display | TFT |
| Time setting range [min] | 0.017 - 6000 |
| Temperature measurement resolution [K] | 0.1 |
| 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 [kg/dm ³] | 9999 |
| Working temperature [°C] | -100 - 300 |
| Fastening on stand | extension arm |
| Support rod diameter (with integrated fastening on stand) [mm] | 16 |
| Telescope stand stroke [mm] | 142 |
| Plug-in coupling (Ø) [mm] | 12 |
| Basic container volume [ml] | 600 |
| Stand | Rotastand |
| Stroke max. [mm] | 61 |
| Diameter [mm] | 16 |
| Dynamic load [kg] | 3.2 |
| Dimensions (W x H x D) [mm] | 351 x 629 x 372 |
| Weight [kg] | 7.1 |
| Permissible ambient temperature [°C] | 5 - 40 |
| Permissible relative humidity [%] | 80 |
| Protection class according to DIN EN 60529 | IP 40 |
| RS 232 interface | yes |
| USB interface | yes |
| Voltage [V] | 100 - 240 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 24 |
| Power input standby [W] | 0.06 |



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|--------------------------|------|
| DC Voltage [V=] | 24 |
| Current consumption [mA] | 1000 |

