



designed for scientists



IKA ROTAVISC SBS hi-vi I 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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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: 200 - 80.000.000 mPas

Technical Data

Viscosity Measuring Range [mPas]	80000000
Viscosity Accuracy (FSR) [%]	1
Viscosity Repeatability (FSR) [%]	0.2
Spring torque [mNm]	1.4374
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	HELISTAND
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