

## SOFAST BV BENCHTOP VISCOMETER



### TYPICAL APPLICATIONS FIELDS

Quality control, raw material checking

Multiple process sampling measurement

Frequent and rapid production check

Process-side controls

Fast evolution samples

### SOFAST BV BENCHTOP VISCOMETER: A QUICK AND RELIABLE SYSTEM FOR VISCOSITY MEASUREMENT IN THE LAB

Sofraser's new Sofast BV is the only benchtop viscometer using vibrating technology at resonance frequency. Using a beaker or a sample tube, the Sofast BV is the most efficient instrument for fast viscosity measurement.

- **Time saving:** From quick measurement acquisition to fast cleaning, the Sofast BV, for the first time in lab viscometry, allows the technician to receive a measurement, clean the rod, and prepare another sample in less than sixty seconds.
- **Reliable measurement:** With its stable skid and resonance frequency technology, it is unaffected by external vibrations. An anti-vibration table is unnecessary and the Sofast BV provides sensitive viscosity measurement from as low as 0.1 cP.
- **Versatility:** The Sofast BV viscometer measures sample volumes as small as 2 ml and several ranges can be pre-configured.
- **Complete solution:** From the conventional lab jack to optional integrated heating and agitating solutions, the Sofast BV's range and accessories equip the lab with useful tools for reliable viscosity and temperature measurements.
- **Durable investment:** The Sofast BV sensor has no wearing parts, requires minimal maintenance, and guarantees a rapid return on investment. Software for data acquisition expedites results, saves time, and streamlines viscosity measurement.

Whatever your industry, we understand and develop solutions for many applications. For a personalized approach, contact us at [instruments@sofraser.com](mailto:instruments@sofraser.com)



Easy cleaning



Small sample tube 2 ml



Lab jack and agitator

## SOFAST BV BENCHTOP VISCOMETER

### FEATURES AND SPECIFICATIONS

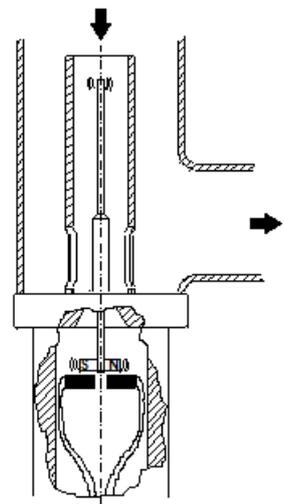
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring range      | <ul style="list-style-type: none"> <li>1 fixed range: 0.1-100 mPa.s or 1-1 000 mPa.s</li> <li>10 - 10 000 mPa.s (upon request)</li> <li>Up to 2 pre-configured ranges (upon request)</li> </ul>                                                                                                                                                                                                                           |
| Sample volume        | <ul style="list-style-type: none"> <li>Standard: 100 ml or more</li> <li>Option 30 ml sample tube (upon request)</li> <li>Option small sample tube 2 ml (upon request)</li> </ul>                                                                                                                                                                                                                                         |
| Repeatability        | <ul style="list-style-type: none"> <li>± 0.5 % of Full Scale Range</li> </ul>                                                                                                                                                                                                                                                                                                                                             |
| Operating conditions | <ul style="list-style-type: none"> <li>Sample temperature up to 50 °C / 122 °F</li> <li>Working temperature 40 °C / 104 °F max</li> </ul>                                                                                                                                                                                                                                                                                 |
| Material             | <ul style="list-style-type: none"> <li>Sensor wetted parts and base: 316L stainless steel</li> <li>Skid support: aluminum</li> </ul>                                                                                                                                                                                                                                                                                      |
| Protection           | <ul style="list-style-type: none"> <li>IP20</li> </ul>                                                                                                                                                                                                                                                                                                                                                                    |
| Weight               | <ul style="list-style-type: none"> <li>6.3 kg / 13.8 lbs.</li> </ul>                                                                                                                                                                                                                                                                                                                                                      |
| Size                 | <ul style="list-style-type: none"> <li>Length: 240 mm; Depth: 210 mm; Height: 400 mm</li> <li>9.4" L x 8.2" D x 15.7" H</li> </ul>                                                                                                                                                                                                                                                                                        |
| Power supply         | <ul style="list-style-type: none"> <li>24 VDC power supply included</li> </ul>                                                                                                                                                                                                                                                                                                                                            |
| Battery life         | <ul style="list-style-type: none"> <li>8 hours</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 |
| Output               | <ul style="list-style-type: none"> <li>Mini USB communication port</li> </ul>                                                                                                                                                                                                                                                                                                                                             |
| Display              | <ul style="list-style-type: none"> <li>LCD screen</li> <li>Dimensions: 123 mm x 42 mm (4.8" x 1.6")</li> <li>4 lines of 20 characters</li> <li>2 digital buttons (4 upon request)</li> </ul>                                                                                                                                                                                                                              |
| Options              | <ul style="list-style-type: none"> <li>Additional pre-configured range, determined by initial full scale range (upon request)</li> <li>Small (2 ml) or 30 ml sample volume calibration (upon request)</li> </ul>                                                                                                                                                                                                          |
| Accessories          | <ul style="list-style-type: none"> <li>CheckTemp External temperature probe</li> <li>100 ml beaker</li> <li>100 ml bottle</li> <li>2 ml sample tubes and adapters (upon request)</li> <li>30 ml sample tubes (upon request)</li> <li>Lab jack (for beaker use)</li> <li>Lab jack and integrated agitator (upon request)</li> <li>Standard mineral oils</li> <li>Data acquisition software (USB cable included)</li> </ul> |

In 1981, Sofraser invented & patented the world's first vibrating viscometer at resonance frequency also called tuning-type.

The vibration amplitude varies according to the viscosity of the product in which the rod is immersed.

The active part of the sensor, a vibrating rod held in oscillation at resonance frequency, is driven by constant electrical power.

Sofraser remains unsurpassed regarding process reliability and accuracy.



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