

Tesca Falling Sphere Viscometer & Particle Drag Coefficient Apparatus is designed to enhance student study of liquid viscosity and particle drag coefficient, it consists of two precision bore glass tubes mounted on a wall mounting frame with back light source for easy visualization of the fall of particle. Students can place the test sphere on to the top of the tube, let it fall freely, with a stopwatch measuring the time taken to fall to the bottom. A valve system at the bottom of tube allows to remove the sphere easily.

#### Technical specification:

- Glass tube of 93mm inside diameter & 103mm outside diameter (Optionally any required diameters) and 1.3 meter long.
- Milky White acrylic with backlight source of 3 LED Tube Lights.
- Bottom opening valve
- 1 set of SS 5, 10, 15, 20, & 25mm diameter balls (balls with ball gauge and case)
- A stopwatch.
- Two plastic beakers with a capacity of 0.50 l. each one.
- Streamline shape test sample, 2nos
- Viscosity measuring ranges 0.6 to 70000 mPas.
- The specified viscosity measuring range refers to measuring times from 30 to 300 seconds
- Relative error: 0.5 to 2%
- Temperature range: -60 to + 150 °C
- Measuring Distance: 100 mm
- Required quantity of substance to measured: 40 ml Dimensions (width x depth x height ): 205 mm x 185 mm x 315 mm



#### Experiments

1. Determine the drag coefficient of various sphere particles.
2. Determine the viscosity of liquid.
3. Determine the drag coefficient of various shape particles.

Note: Specifications are subject to change.

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