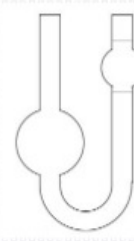


# HOW TO MEASURE VISCOSITY

by Amanda Ranowsky



Upper mark

Lower mark

best for newtonian fluids

## Rotational Viscometers

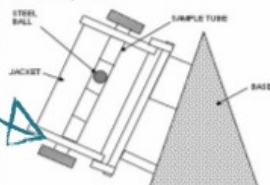
test a wide range of newtonian and non-newtonian fluids.

measure the torque required to turn a spindle in a sample of fluid at a known speed.

## Capillary Viscometers

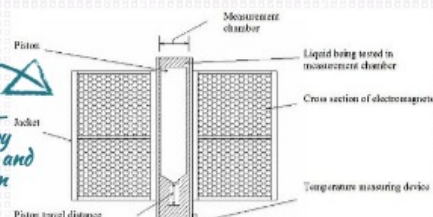
measure kinematic viscosity by timing the flow of a transparent or translucent fluid between two points of a capillary tube.

for newtonian fluids



<http://www.qclabequipment.com/VISCOSITY.html>

adapted for small and micro-sample viscosity in laboratory applications, and high pressure and high temperature viscosity in laboratory and process environments.



<http://en.wikipedia.org/wiki/Viscometer>

## Falling Sphere Viscometers

measure the time it takes for a sphere to fall through a fluid under the weight of gravity.

## EMV Viscometers

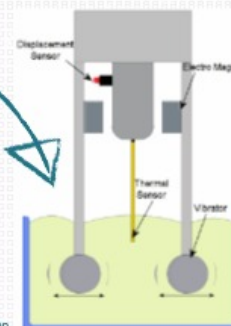
measure the travel time of a piston as a controlled magnetic field drives it into oscillatory motion within the measurement chamber.

for direct, continuous measurement as the product goes through the production line.

## Vibrational Viscometers

measure viscosity in the production line using a sensor in a vibrating rod.

[http://www.engineerstudent.co.uk/what\\_is\\_viscosity.php](http://www.engineerstudent.co.uk/what_is_viscosity.php)



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