

HYDRAULICS DEPARTMENT

Name: _____

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EXPERIMENT NO. 1

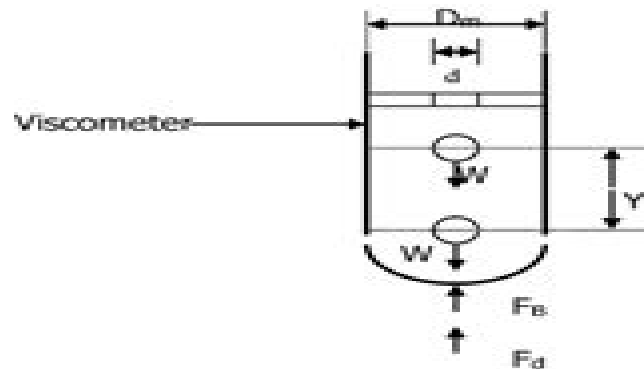
FALLING SPHERE VISCOMETER

Commercial Falling Sphere viscometers are non-available. One type of which is shown on the sketch. The one available is not of the commercial type. This viscometer makes use of the principles in case of flow around a small sphere.

For laminar flow $vd/2 \leq 1$ in which d is the diameter of the sphere. The friction or the deformation drag F_d of the sphere moving at a constant velocity V through a fluid of infinite extend is given by Stoke's Law with the following assumptions:

1. The particle must be a sphere.
2. The surface of the particle must be smooth.
3. The resistance to fall or drag force F_d is due to the viscosity of the fluid.
4. The terminal velocity must be constant.

$$F_d = 3 \pi \mu V_t d \quad \text{----- (1)}$$



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