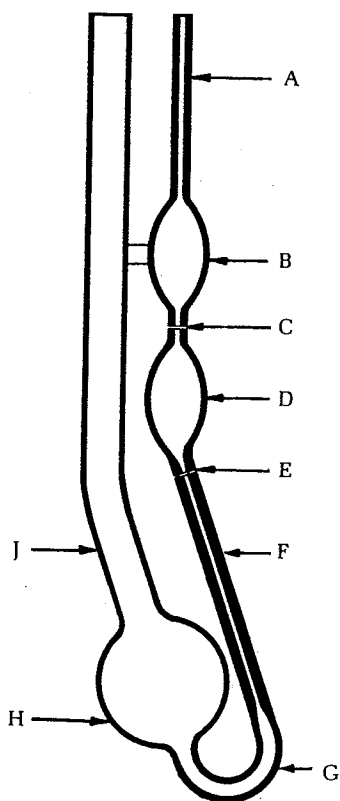


# INSTRUCTIONS

## THE CANNON-FENSKE ROUTINE VISCOMETER



Cannon-Fenske Routine Viscometer  
for Transparent Liquids

1. The viscometer should be cleaned with a suitable solvent and dry, clean, filtered air should be blown through the viscometer to remove any remaining traces of solvent.
  2. The instrument should be periodically cleaned with chromic acid to remove any possible traces of organic deposits.
  3. If a possibility of lint, dust, or other solid material is present in liquid sample, this may be removed by filtering through a sintered glass filter or fine mesh screen.
  4. To introduce sample into the viscometer, invert viscometer immerse tube "A" into liquid and apply suction to "J" which causes the sample to rise to etched line "E". Turn the viscometer to normal position and wipe tube "A" clean.
  5. Insert the viscometer into a holder and place in Constant-Temperature Bath. Allow 10 minutes for viscometer to reach equiluation at 100 degrees F. (37.8°C.) and 15 minutes at 210 degrees F. (98.89°C). Or that time required to reach equilibrium.
  6. Vertical alignment may be accompanied in bath by suspending a plumb bob in tube "J".
  7. Apply suction to tube "A" and bring sample into bulb "D", a short distance above mark "C".
  8. The efflux time is measured by allowing the sample to flow freely through mark "C", measuring the time for the meniscus to pass "C" to "E".
  9. To repeat efflux time, repeat steps 7 and 8.
  10. The Viscosity is calculated by multiplying the efflux time by the viscometer constant.
- See ASTM D445 and D2515 for more complete instructions.

### RECOMMENDED VISCOSITY RANGES FOR THE CANNON-FENSKE ROUTINE VISCOMETERS

Size	Centistokes/Second Approximate Constant	Centistokes Range
25	0.002	0.5 to 2
50	0.004	0.8 to 4
75	0.008	1.6 to 8
100	0.015	3 to 15
150	0.035	7 to 35
200	0.1	20 to 100
300	0.25	50 to 250
350	0.5	100 to 500
400	1.2	240 to 1200
450	2.5	500 to 2500
500	8	1600 to 8000
600	20	4000 to 20000

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