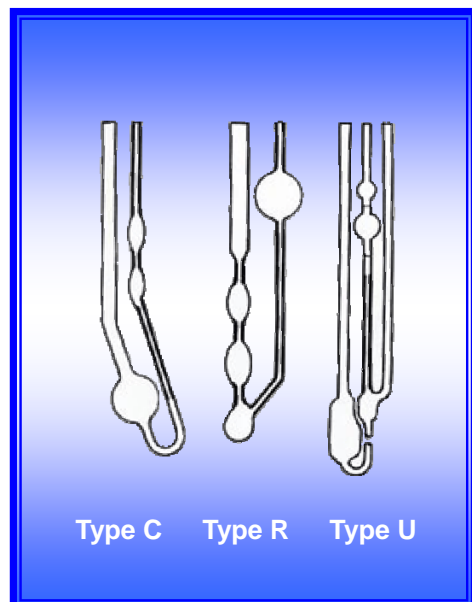


### Cat. No. 843 VISCOMETERS (GLASS-MADE CAPILLARY TYPE VISCOMETERS)

**【Summary】** These viscometers are used to measure kinematic viscosity of crude oil and petroleum oil. Certain specified amount of sample goes down inside a capillary glass tube under the specified temperature, and kinematic viscosity ( $\text{mm}^2/\text{s}$ ) is calculated as a product of measured time (s) and the relating viscosity constant.



#### ● Cannon-Fenske Viscometer (Type C)

1. Measurement of kinematic viscosity is possible by very little amount of sample (approx. 9cc). Viscometer itself can be used as a pipette, and a certain fixed amount of sample can be taken precisely by this viscometer without using any other measuring or weighing unit.
2. A chronometric bulb and a sample accumulating bulb are in the same vertical position, so there is quite less measuring error which may happen when a viscometer is not held perpendicularly during measurement.

#### ● Cannon-Fenske Viscometer for Opaque Liquid (Reverse-flow type Viscometer/ Type R)

1. This type is appropriate when measuring an opaque sample, and kinematic viscosity can be measured by very little amount of sample (approx. 11cc). Viscometer itself can be used as a pipette as mentioned above for the Type C viscometer.
2. There are 2 bulbs for measuring viscosity, so 2 measurements can be done in one sequence of measuring operation.

#### ● Ubbelohde Viscometer (Type U)

1. Thanks to its suspended structure, no exact amount of sample (approx. 15cc) is needed.
2. Sample's surface tension can be ignored as its affect is very small.
3. Under any measuring temperature, an effective height of liquid becomes a constant level, with highly reliable measurement as a result.

#### - Available Models and Ranges of Viscosity Measurement -

Viscometers (Type C)

No.	Constant	Viscosity Range
25	0.002	0.5~2
50	0.004	0.8~4
75	0.008	1.6~8
100	0.015	3~15
150	0.035	7~35
200	0.1	20~100
300	0.25	50~250
350	0.5	100~500
400	1.2	240~1200
450	2.5	500~2500
500	8	1600~8000
600	20	4000~20000

Viscometers (Type R)

No.	Constant	Viscosity Range
25	0.002	0.4~2
50	0.004	0.8~4
75	0.008	1.6~8
100	0.015	3~15
150	0.035	7~35
200	0.1	20~100
300	0.25	50~250
350	0.5	100~500
400	1.2	240~1200
450	2.5	500~2500
500	8	1600~8000
600	20	4000~20000

Viscometers (Type U)

No.	Constant	Viscosity Range
0	0.001	0.3~1
0C	0.003	0.6~3
0B	0.005	1~5
1	0.01	2~10
1C	0.03	6~30
1B	0.05	10~50
2	0.1	20~100
2C	0.3	60~300
2B	0.5	100~500
3	1	200~1000
3C	3	600~3000
3B	5	1000~5000
4	10	2000~10000
4C	30	6000~30000
4B	50	10000~50000
5	100	20000~100000

\* Each viscometer is supplied with a constant number in a box.

● The above specifications are subject to change without notice due to technical improvement.