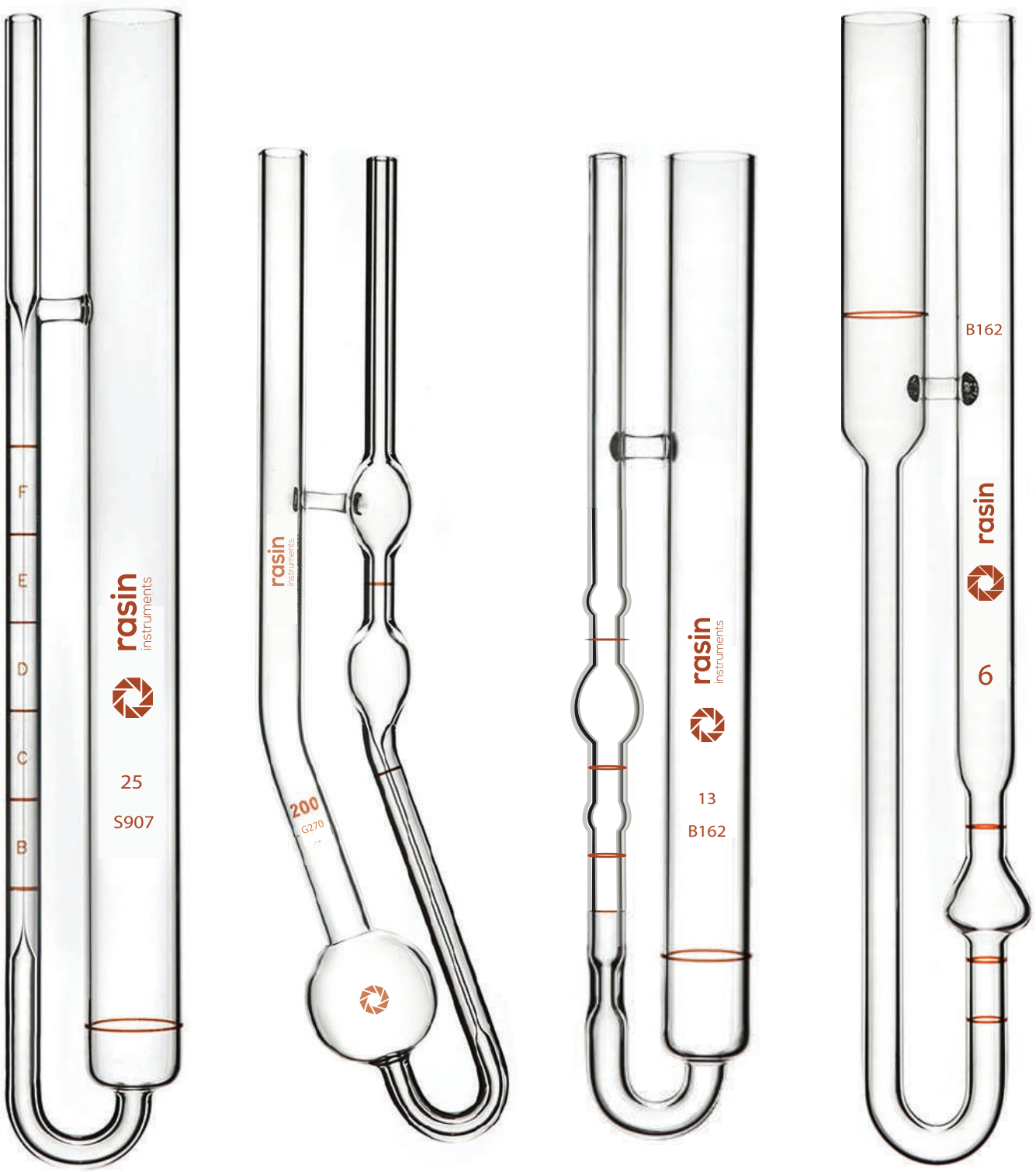
rasin
instruments

Precision
Glass Capillary Viscometers



Cannon-Fenske Routine Viscometers

Cannon Fenske routine viscometers are reverse flow type viscometers used to measure kinematic vicsocity of tranparent liquids, particularly petroleum products or lubricants according to ASTM D445 and ISO 3104. Minimum sample volume is 7 ml and requires bath depth of 203 mm(8 inches). Available as both calibrated and uncalibrated type. Calibration data stated at 40 and 100°C

Part No.	Size	Constant	Range(mm²/s)
CFR/01	25	0.002	0.4 – 2
CFR/02	50	0.004	0.8 – 4
CFR/03	75	0.008	1.6 – 8
CFR/04	100	0.015	3 – 15
CFR/05	150	0.035	7 – 35
CFR/06	200	0.1	20 – 100
CFR/07	300	0.25	50 – 250
CFR/08	350	0.5	100 – 500
CFR/09	400	1.2	240 – 1200
CFR/10	450	2.5	500 – 2500
CFR/11	500	8	1600 – 8000
CFR/12	600	20	4000 – 20000
CFR/13	650	50	10000 – 50000
CFR/14	700	100	20000 – 100000

ASTM Ubbelohde Viscometers

For measurement of kinematic viscosity of transparent Newtonian liquids by suspended level principle as described in ASTM D445 and ASTM D446, and ISO 3104 and 3105. Minimum sample volume is 11 ml and requires a liquid bath depth of 241 mm(9.5 inches) High precision and easy to use.

Part No.	Size	Constant	Range(mm²/s)
AUV/01	0	0.001	0.3 – 1
AUV/02	0C	0.003	0.6 – 3
AUV/03	0B	0.005	1 – 5
AUV/04	1	0.01	2 – 10
AUV/05	1C	0.03	6 – 30
AUV/06	1B	0.05	10 – 50
AUV/07	2	0.1	20 – 100
AUV/08	2C	0.3	60 – 300
AUV/09	2B	0.5	100 – 500
AUV/10	3	1.0	200 – 1000
AUV/11	3C	3.0	600 – 3000
AUV/12	3B	5.0	1000 – 5000
AUV/13	4	10	2000 – 10000
AUV/14	4C	30	6000 – 30000
AUV/15	4B	50	10000 – 50000
AUV/16	5	100	20000 – 100000

Cannon Manning Vacuum Capillary Viscometer

Cannon Manning Vacuum Capillary Visocmeters are suitable for measuring the dynamic viscosity of bituminous binders at 60°C (140°F) according to IS 1206, ASTM D2171 and EN 12596. Vacuum of 300mm Hg is applied to small arm with timing bulbs. Minimum sample volume is 6 ml and requires bath depth of 180 mm(7.1 inches). Available as both calibrated and uncalibrated type.

Part No.	Size	Constant (Bulb B)	Constant (Bulb C)	Range (poises)
CM907/04	4	0.002	0.0006	0.036 - 0.8
CM907/05	5	0.006	0.002	0.12 – 2.4
CM907/06	6	0.02	0.006	0.36 – 8.0
CM907/07	7	0.1	0.02	1.2 – 2.4
CM907/08	8	0.2	0.06	3.6 – 80
CM907/09	9	0.6	0.2	12 – 240
CM907/10	10	2.0	0.6	36 – 800
CM907/11	11	6.0	2.0	120 – 2400
CM907/12	12	20.0	6.0	360 – 8000
CM907/13	13	60.0	20.0	1200 – 24000
CM907/14	14	200.0	60.0	3600 – 80000

Vacuum System for Bituminous Binders

complete with vacuum controller, vacuum pump, valve control module, mercury manometer and safety bottle.
Available Model: VAC3H with 3 vacuum ports

Asphalt Institute Vacuum Capillary Viscometer

Asphalt Institute Vacuum Capillary Visocmeters are suitable for measuring the dynamic viscosity of bituminous binders. They are made with precision in accordnace with IS1206, ASTM D2171 and EN 12596. They are similar to Cannon Manning Vacuum Viscometers, but with graduated capillary instead of two timing bulbs. Minimum sample volume is 3 ml and requires bath depth of 180 mm(7.1 inches).

Part No.	Size	Constant (Bulb B)	Constant (Bulb C)	Constant (Bulb D)	Range (poises)
AIC/01	25	2.0	1.0	0.7	42 - 800
AIC/02	50	8.0	4.0	3.0	180 – 3200
AIC/03	100	32	16	10	600 – 12800
AIC/04	200	128	64	40	2400 – 52000
AIC/05	400R	500	250	160	9600 – 1400000
AIC/06	800R	2000	1000	640	38000 – 5800000

Cannon-Fenske Opaque Viscometer

Cannon Fenske viscometers are reverse flow type viscometers used to measure kinematic vicsocity of dark Newtonian liquids according to ASTM D445 and ISO 3104. They are used to measure kinematic viscosity of liquid (cutback) asphalts and road oils at 60°C (140°F) in range of 30 to 6000 centistokes according to ASTM D2170 and IS 1206. . Also used to study lubricating oils at low temperatures when investigating the effect of various additives on lubricating and hydraulic oils.

Part No.	Size	Constant	Range(mm²/s)
CFO/01	25	0.002	0.4 – 2
CFO/02	50	0.004	0.8 – 4
CFO/03	75	0.008	1.6 – 8
CFO/04	100	0.015	3 – 15
CFO/05	150	0.035	7 – 35
CFO/06	200	0.1	20 – 100
CFO/07	300	0.25	50 – 250
CFO/08	350	0.5	100 – 500
CFO/09	400	1.2	240 – 1200
CFO/10	450	2.5	500 – 2500
CFO/11	500	8	1600 – 8000
CFO/12	600	20	4000 – 20000
CFO/13	650	50	10000 – 50000
CFO/14	700	100	20000 – 100000

U-Tube Reverse Flow Viscometer

U -Tube Reverse Flow Viscometers measures kinematic viscosity of opaque Newtonian liquids according to ASTM D445 and IS0 3104. They are mainly used to check the kinematic viscosity of viscosity grade bitumen according to IS 1206 (pt. 3). Requried bath depth is 280 mm(11 inches). Minimum sample volume is 7 ml. Available as both calibrated and uncalibrated.

Part No.	Size	Constant	Range(mm²/s)
BSI/11	1	0.002	0.6 – 3
BSI/12	2	0.006	2 – 10
BSI/13	3	0.02	6 – 30
BSI/14	4	0.1	20 – 100
BSI/15	5	0.2	60 – 300
BSI/16	6	1.0	200 – 1000
BSI/17	7	2.0	600 – 3000
BSI/18	8	6.0	2000 – 10000
BSI/19	9	20.0	6000 – 30000
BSI/20	10	60.0	20000 – 100000
BSI/21	11	200.0	60000 – 300000

Cannon Ubbelohde Viscometers

Suspended level viscometer for measurement of kinmeatic viscosity of transparent Newtonain liquids according to ASTM D445 and ISO 3104. Used for evaluating jet and hydraulic lubricants. Especially suited for use at temperatures above 93°C(200° F) or below -18°C(0° F). Minimum sample volume 11 ml. Require bath depth of 254 mm (10 inches).

Part No.	Size	Constant	Range(mm^2/s)
CUV/01	25	0.002	0.5 – 2
CUV/02	50	0.004	0.8 – 4.0
CUV/03	75	0.008	1.6 – 8.0
CUV/04	100	0.015	3 – 15
CUV/05	150	0.035	7 – 35
CUV/06	200	0.1	20 – 100
CUV/07	300	0.25	50 – 250
CUV/08	350	0.5	100 – 500
CUV/09	400	1.2	240 – 1200
CUV/10	450	2.5	500 – 2500
CUV/11	500	8.0	1600 – 8000
CUV/12	600	20	4000 – 20000
CUV/13	650	45	9000 – 45000
CUV/14	700	100	20000 – 100000

BS/IP/SL Suspended Level Viscometers

For measurement of kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Specifications conform to ASTM D446 and ISO 3105. Minimum sample volume is 11 ml and requires a liquid bath depth of 250 mm(10 inches).

Part No.	Size	Constant	Range(mm^2/s)
1SL/01	1	0.01	3.5 – 10
1SL/02	1A	0.03	6 – 30
1SL/03	2	0.1	20 – 100
1SL/04	2A	0.3	60 – 300
1SL/05	3	1.0	200 – 1000
1SL/06	3A	3.0	600 – 3000
1SL/07	4	10	2000 – 10000
1SL/08	4A	30	6000 – 30000
1SL/09	5	100	20000 – 100000

BS/U-Tube Transparent Viscometers

These viscometers are suitable for measuring the kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Specifications conform to ASTM D446 and ISO 3105. Minimum sample volume is 7 ml in sizes A to C, 12 ml in sizes D to F and 23 ml in sizes G and H. Requires liquid bath depth of 280mm (11 inches).

Part No.	Size	Constant	Range(mm^2/s)
BST/01	A	0.003	0.9 – 3
BST/02	B	0.01	2.0 – 10
BST/03	C	0.03	6 – 30
BST/04	D	0.1	20 – 100
BST/05	E	0.3	60 – 300
BST/06	F	1.0	200 – 1000
BST/07	G	3.0	600 – 3000
BST/08	H	10	2000 – 10000

BS/U/M Miniature U-Tube Viscometers

For measurement of kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104 and 3105. Specifications conform to ASTM D446 and ISO 3104. Minimum sample volume is 2 ml and requires a liquid bath depth of 230 mm(9 inches).

Part No.	Size	Constant	Range(mm^2/s)
MUT/01	M1	0.001	0.2 – 1
MUT/02	M2	0.005	1 – 5
MUT/03	M3	0.015	3 – 15
MUT/04	M4	0.04	8 – 40
MUT/05	M5	0.1	20 – 100

BS/IP/SL Shortened Form Viscometers

Suitable for measuring kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Specifications conform to ASTM D446 and ISO 3105. Minimum sample volume is 10 ml and requires a liquid bath depth of 230 mm(9 inches)

Part No.	Size	Constant	Range(mm²/s)
BSL/01	1	0.0008	1.05 min
BSL/02	2	0.003	2.1 – 3
BSL/03	3	0.01	3.8 – 10
BSL/04	4	0.03	6 – 30
BSL/05	5	0.10	20 – 100
BSL/06	6	0.3	60 – 300
BSL/07	7	1.0	200 – 1000
BSL/08	8	3.0	600 – 3000
BSL/09	9	10	2000 – 10000

Miniature Suspended-Level Viscometers

For measurement of kinematic viscosity of transparent Newtonian liquids as described in ASTM D445 and ISO 3104. Specification conform to ASTM D446 and ISO 3104. Minimum sample volume is 4 ml and requires a liquid bath depth of 305 mm(12 inches) High precision and easy to use.

Part No.	Size	Constant	Range(mm²/s)
MSL/01	1	0.003	0.6 – 3
MSL/02	2	0.01	2 – 10
MSL/03	3	0.03	6 – 30
MSL/04	4	0.1	20 – 100
MSL/05	5	0.3	60 – 300
MSL/06	6	1.0	200 – 1000
MSL/07	7	3.0	600 – 3000

Accessories

Viscometer Bench Stand
Part No. VST10 for 10 viscometers
Part NO. VST03 for 3 viscometers

Pen type thermometer
Part No. DT2

Cleaning brushes
For cleaning tube
and capillaries
Available for all viscometers

High grade silicon oil
10cSt- for 10 to 100°C
20cSt- for 80 to 135°C
75cSt- for 135 to 200°C
Available in 5,10 & 20 litres jerry cans

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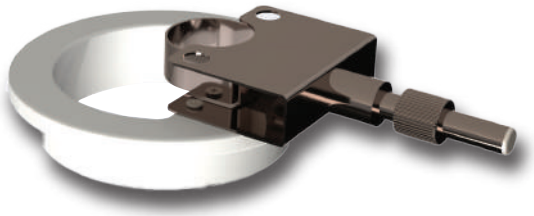
Metal Viscometer Holders

Part No | Specifications

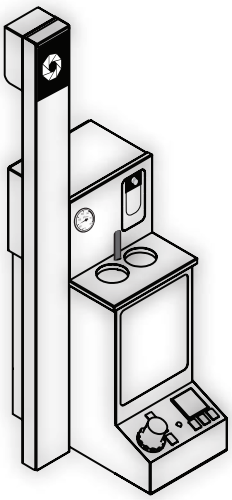
MTH1 | Universal Viscometer Holder
MTH2 | U-Tube Viscometer Holder Size O-F
MTH3 | U-Tube Viscometer Size G & H
MTH4 | Suspended Level Viscometer Size 1-4
MTH5 | Suspended Level Viscometer Size 4A & 5
MTH6 | Suspended Level Short Form Viscometer
MTH7 | Cannon Fenske Routine Viscometer
MTH8 | U-Tube Reverse Flow Viscometer
MTH9 | Cannon Fenske Opaque Viscometer
MTHA | Ubbelohde Viscometer Size 0-4
MTHB | Ubbelohde Viscometer Size 4C & 5

PTFE Viscometer Holders



This viscometer holder can hold any type of viscometer

Viscometer Bath



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World's first constant temperature bath with an in-built vacuum system

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