

ISO/DIS 3105, DIN 51562, BS 188, NF T 60-100

① **Capillary viscosimeter, calibrated, for manual measurements**

Manufacturer's certificate with constant.

Type	Capillary No.	Capillary inner Ø mm	Constant guide value K	Measuring range (guide value) mm ² /s	Order No.
50100	0	0.36	0.001	0.3 – 1	69 27 10001
50103	0c	0.47	0.003	0.5 – 3	69 27 10002
50101	0a	0.53	0.005	0.8 – 5	69 27 10003
50110	I	0.63	0.01	1.2 – 10	69 27 10004
50113	Ic	0.84	0.03	3 – 30	69 27 10005
50111	Ia	0.95	0.05	5 – 50	69 27 10006
50120	II	1.13	0.1	10 – 100	69 27 10007
50123	IIc	1.50	0.3	30 – 300	69 27 10008
50121	Ila	1.69	0.5	50 – 500	69 27 10009
50130	III	2.01	1	100 – 1000	69 27 10010
50133	IIlc	2.65	3	300 – 3000	69 27 10011
50131	IIIa	3.00	5	500 – 5000	69 27 10012
50140	IV	3.60	10	1000 – 10000	69 27 10013
50243	IVc	4.70	30	3000 – 30000	69 27 00131
50241	IVa	5.34	50	6000 – 30000	69 27 00148
50250	V	6.30	100	over 10000	69 27 00156

Capillary viscosimeter, non-calibrated

For relative measurements.

Type	Capillary No.	Capillary inner Ø mm	Constant guide value K	Measuring range (guide value) mm ² /s	Order No.
53003	0c	0.47	0.003	0.5 – 3	69 27 10026
53001	0a	0.53	0.005	0.8 – 5	69 27 10027
53010	I	0.63	0.01	1.2 – 10	69 27 10028
53013	Ic	0.84	0.03	3 – 30	69 27 10029
53020	II	1.13	0.1	10 – 100	69 27 10030
53023	IIc	1.50	0.3	30 – 300	69 27 10031
53030	III	2.01	1	100 – 1000	69 27 10032
53033	IIlc	2.65	3	300 – 3000	69 27 10033
53040	IV	3.60	10	1000 – 10000	69 27 10034

② **Capillary viscosimeter, calibrated, for automatic measurements**

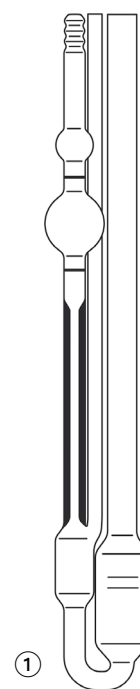
Manufacturer's certificate with constant.

Type	Capillary No.	Capillary inner Ø mm	Constant guide value K	Measuring range (guide value) mm ² /s	Order No.
53200	0	0.36	0.001	0.3 – 1	69 27 53200
53203	0c	0.47	0.003	0.5 – 3	69 27 53203
53201	0a	0.53	0.005	0.8 – 5	69 27 53201
53210	I	0.63	0.01	1.2 – 10	69 27 53210
53213	Ic	0.84	0.03	3 – 30	69 27 53213
53211	Ia	0.95	0.05	5 – 50	69 27 53211
53220	II	1.13	0.1	10 – 100	69 27 53220
53223	IIc	1.50	0.3	30 – 300	69 27 53223
53221	Ila	1.69	0.5	50 – 500	69 27 53221
53230	III	2.01	1	100 – 1000	69 27 53230
53233	IIlc	2.65	3	300 – 3000	69 27 53233
53231	IIIa	3.00	5	500 – 5000	69 27 53231
53240	IV	3.60	10	1000 – 10000	69 27 53240

Stand

VA steel. Suitable for all Ubbelohde viscosimeters without TC sensors. For manual and automatic measurements. Ensures that the viscosimeter hangs perpendicular. Deviation <1°. Also helps to protect the viscosimeter from breakage.

Article	Order No.
③ Stand type 05392	69 27 05043



④ ViscoClock *plus*

The ViscoClock *plus* is an electronic timing unit for glass capillary viscometers used to determine kinematic and relative viscosity. Succeeding the well-proven ViscoClock, the new instrument features data storage and simpler handling.

The ViscoClock *plus* is suitable for the following SI Analytics® viscosimeters: Ubbelohde (DIN; ISO; ASTM; Mikro) and Mikro-Ostwald.

To determine absolute kinematic viscosities, calibrated viscometers have to be used, such as type no. 532 xx.

The ViscoClock *plus* automatically measures the flow time in the viscometers by means of infrared light barriers: manual flow time measurement with a stopwatch becomes obsolete. The viscometer including a sample is inserted into the ViscoClock *plus* and immersed into a thermostatic bath for temperature stabilization. After thermostating, the sample is pumped into the measuring bulb, and the flow time is detected automatically. The large display enables easy read-off of flow times and additional information: date, time, sample ID and viscometer ID.

The ViscoClock *plus* can be used in all SI Analytics® transparent thermostats.

Technical data:

Measuring range:	up to 999.99 s / resolution 0.01 s
Accuracy of time measurement:	±0,01 s/±1 digit
Measuring range viscosity:	0.35 – 10000 mm ² /s (cSt)
USB host:	to connect USB flash drive or printer (TZ 3863)
Operating temperature:	stand: -40 to +150°C electronic measuring unit: +10 to +40°C
Dimensions (WxDxH):	approx. 90 × 30 × 515 mm
Weight:	approx. 450 g (without viscosimeter), power supply unit approx. 220 g
Viscometer types:	Ubbelohde (DIN, ISO, ASTM, Mikro), Mikro-Ostwald

Article	Order No.
ViscoClock <i>plus</i> Timing unit for capillary viscometer. Including power supply 100–230 V and hand pump.	10 27 17900
ViscoClock <i>plus</i> M1, 230 V ViscoClock <i>plus</i> and acrylic glass thermostatic bath CT72/P (230 V) for temperatures +10°C – +60°C.	10 27 17910
ViscoClock <i>plus</i> M1, 115 V ViscoClock <i>plus</i> and acrylic glass thermostatic bath CT72/P (115 V) for temperatures +10°C – +60°C.	10 27 17920
ViscoClock <i>plus</i> M2, 230 V ViscoClock <i>plus</i> and glass panelled thermostatic bath CT72/2 (230 V) for temperatures -40°C – +150°C.	10 27 17930
ViscoClock <i>plus</i> M2, 115 V ViscoClock <i>plus</i> and glass panelled thermostatic bath CT72/2 (115 V) for temperatures -40°C – +150°C.	10 27 17940

