

Вискозиметры



По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

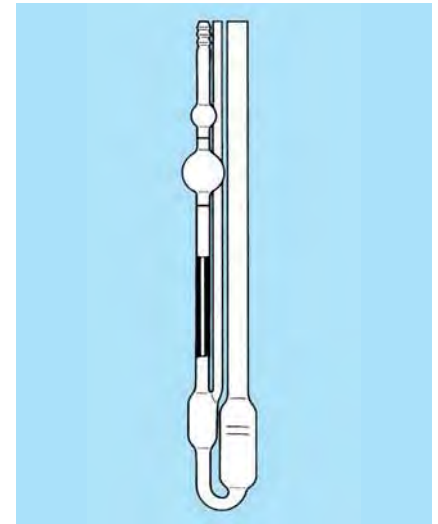
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Ubbelohde viscometers, normal form

Viscometers with suspended ball level for determination of absolute and relative kinematic viscosity of liquids with Newtonian flow behavior. The calibrated viscometers are delivered with manufacturer's certificate in accordance with DIN 55 350, Part 18.

All viscometers are provided with ring marks. This ensures that viscometers for automatic measurements can also be checked by means of manual measurements. The recommended minimum flowthrough time is 200 s.



Ubbelohde-Viskosimeter (DIN)

- in accordance with DIN 51 562 Part 1, ISO/DIS 3105 (BS-IP-SL)
- filling quantity: 15 ... 20 ml
- overall length: approx. 290 mm

calibrated,
with constant,
for manual measurements

calibrated
with constant,
for manual measurements;
automatic measurement with
stand AVS/SK-HV

$$v = K \cdot t$$

$$K = \frac{v}{t}$$

$$t = \frac{v}{K}$$

v = kinematic viscosity in mm^2/s
 K = constant [mm^2/s]
 t = flow-through time in s

Type No.	Order No.	Type No.	Order No.	Capillary No. acc. DIN	acc ISO	Capillary $\varnothing \pm 0,01$ [mm]	Constant K (approx.)	Measuring range [mm^2/s] (approx.)
501 00	285400004	–	–	0	-	0.36	0.001	0.3 ... 1
501 03	285400012	–	–	0c	-	0.47	0.003	0.5 ... 3
501 01	285400029	–	–	0a	-	0.53	0.005	0.8 ... 5
501 10	285400037	–	–	I	I	0.63	0.01	1.2 ... 10
501 13	285400045	–	–	Ic	Ia	0.84	0.03	3 ... 30
501 11	285400053	–	–	Ia	-	0.95	0.05	5 ... 50
501 20	285400061	–	–	II	II	1.13	0.1	10 ... 100
501 23	285400078	–	–	IIc	Ila	1.50	0.3	30 ... 300
501 21	285400086	–	–	Ila	-	1.69	0.5	50 ... 500
501 30	285400094	–	–	III	III	2.01	1	100 ... 1000
501 33	285400107	–	–	IIIC	IIla	2.65	3	300 ... 3000
501 31	285400115	–	–	IIla	-	3.00	5	500 ... 5000
501 40	285400123	–	–	IV	IV	3.60	10	1000 ... 10000
–	–	502 43	285400131	IVc	IVa	4.70	30	3000 ... 30000
–	–	502 41	285400148	IVa	-	5.34	50	6000 ... 30000
–	–	502 50	285400156	-	V	6.30	100	> 10000

not calibrated,
without constant;
for determination of rela-
tive viscosity

calibrated,
with constant for auto-
matic measurements

$$v = K \cdot t$$

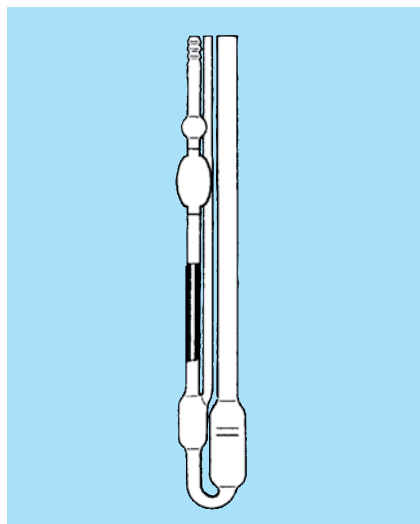
$$K = \frac{v}{t}$$

$$t = \frac{v}{K}$$

v = kinematic viscosity in mm^2/s
 K = constant [mm^2/s]
 t = flow-through time in s

Type No.	Order No.	Type No.	Order No.	Capillary No. acc. DIN	acc ISO	Capillary $\varnothing \pm 0,01$ [mm]	Constant K (approx.)	Measuring range [mm^2/s] (approx.)
–	–	532 00	285400164	0	-	0.36	0.001	0.3 ... 1
530 03	285400304	532 03	285400201	0c	-	0.47	0.003	0.5 ... 3
530 01	285400312	532 01	285400218	0a	-	0.53	0.005	0.8 ... 5
530 10	285400329	532 10	285400226	I	I	0.63	0.01	1.2 ... 10
530 13	285400337	532 13	285400234	Ic	Ia	0.84	0.03	3 ... 30
–	–	532 11	285400172	Ia	-	0.95	0.05	5 ... 50
530 20	285400345	532 20	285400242	II	II	1.13	0.1	10 ... 100
530 23	285400353	532 23	285400259	IIc	Ila	1.50	0.3	30 ... 300
–	–	532 21	285400189	Ila	-	1.69	0.5	50 ... 500
530 30	285400361	532 30	285400267	III	III	2.01	1	100 ... 1000
530 33	285400378	532 33	285400275	IIIC	IIla	2.65	3	300 ... 3000
–	–	532 31	285400197	IIla	-	3.00	5	500 ... 5000
530 40	285400386	532 40	285400283	IV	IV	3.60	10	1000 ... 10000

Ubbelohde viscometers, normal form (ASTM)



Ubbelohde Viscometer (ASTM)

- in accordance with ISO/DIS 3105, ASTM D 2515, ASTM D 446
- filling quantity: 15 ... 20 ml
- overall length: approx. 285 mm

calibrated,
with constant for manual
measurements

not calibrated,
without constant for
determination of relative
Viscosity

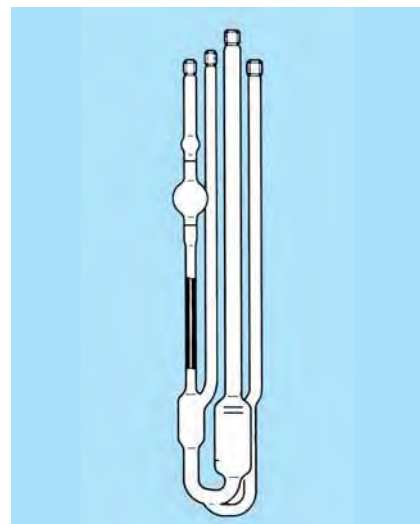
calibrated,
with constant for automa-
tic measurements

Type No.	Order No.	Type No.	Order No.	Type No.	Order No.	Capillary No.	Capillary Ø i ± 0,01 [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)	
525 00	285400501	526 00	285400707	527 00	285401255	0	0.24	0.001	0.35	... 1
525 03	285400518	526 03	285400715	527 03	285401271	0c	0.36	0.003	0.6	... 3
525 01	285400526	526 01	285400723	527 01	285401263	0b	0.46	0.005	1	... 5
525 10	285400534	526 10	285400731	527 10	285401152	I	0.58	0.01	2	... 10
525 13	285400542	526 13	285400748	527 13	285401169	Ic	0.78	0.03	6	... 30
525 20	285400559	526 20	285400756	527 20	285401177	II	1.03	0.1	20	... 100
525 23	285400567	526 23	285400764	527 23	285401185	IIc	1.36	0.3	60	... 300
525 30	285400575	526 30	285400772	527 30	285401193	III	1.83	1	200	... 1000
525 33	285400583	526 33	285400789	527 33	285401288	IIIc	2.43	3	600	... 3000
525 40	285400591	526 40	285400797	527 40	285401296	IV	3.27	10	2000	... 10000
525 43	285400604	526 43	285400801	527 43	285401309	IVc	4.32	30	6000	... 30000

Ubbelohde viscometers, with additional tube and threads

Viscometers with suspended ball level for determination of absolute or relative kinematic viscosity. These viscometers are preferably used for automatic measurements when an AVS 24, AVS 26 or AVS 270 automatic viscometer cleaner is used simultaneously. The additional filling and cleaning tube and the glass

thread ensure safe operational use. The calibrated viscometers are delivered with manufacturer's certificate in accordance with DIN 55 350, Part 18. The ring marks that are also present serve as auxiliary marks in case the viscometers must be checked by means of manual measurements.

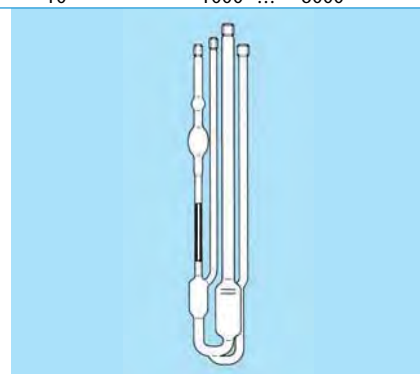


Ubbelohde viscometer (DIN)

- in accordance with ISO/DIS 3105, DIN 51 562, Part 1, BS 133, NFT 60-100
- filling quantity: 18 ... 22 ml
- overall length: approx. 290 mm

calibrated,
with constant for automatic measurements

Type No.	Order No.	Capillary No. acc. DIN	acc. ISO	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)
541 03	285401925	0c	-	0.47	0.003	0.5 ... 3
541 01	285401917	0a	-	0.53	0.005	0.8 ... 5
541 10	285401933	I	I	0.63	0.01	1.2 ... 10
541 13	285401941	Ic	Ia	0.84	0.03	3 ... 30
541 20	285401958	II	II	1.13	0.1	10 ... 100
541 23	285401966	IIc	IIa	1.50	0.3	30 ... 300
541 30	285401974	III	III	2.01	1	100 ... 1000
541 33	285401982	IIIc	IIIa	2.65	3	300 ... 3000
541 40	285401999	IV	IV	3.60	10	1000 ... 6000



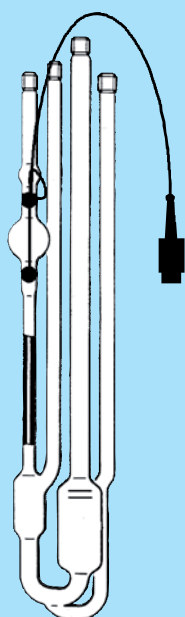
Ubbelohde viscometer (ASTM)

- the technical measurement characteristics are in accordance with ISO/DIS 5105, ASTM D 2515, ASTM D 446
- filling quantity: 15 ... 22 ml
- overall length: approx. 290 mm

calibrated,
with constant for automatic measurements

Type No.	Order No.	Capillary No. acc. DIN	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)
545 00	285402005	0	0.24	0.001	0.35 ... 1
545 03	285402021	0c	0.36	0.003	0.6 ... 3
545 01	285402013	0b	0.46	0.005	1 ... 5
545 10	285402038	I	0.58	0.01	2 ... 10
545 13	285402046	Ic	0.78	0.03	6 ... 30
545 20	285402054	II	1.03	0.1	20 ... 100
545 23	285402062	IIc	1.36	0.3	60 ... 300
545 30	285402079	III	1.83	1	200 ... 1000
545 33	285402087	IIIc	2.43	3	600 ... 3000
545 40	285402095	IV	3.27	10	2000 ... 10000
545 43	285402108	IVc	4.32	30	6000 ... 30000

Ubbelohde viscometers with TC sensors



Viscometers with suspended ball level for determination of absolute and relative kinematic viscosity of liquids with Newtonian flow behaviour. The measuring levels are marked by TC sensors. The meniscus passage is detected due to the different conductivity of the liquid phase and the gas phase. A measurement stand of the type series AVS/S is not required. TC viscometers can be used to determine the kinematic viscosity of all liquids with Newtonian flow behaviour.

They are especially suitable for liquids that cannot be detected with other systems: untransparent and/or black and/or electric conductive measuring samples.

TC viscometers are manufactured from technical glass types with an expansion coefficient of $\alpha = \text{ca. } 9 \cdot 10^{-6}$. Due to the electric properties of TC sensors, it is important to make sure that a type is selected that is suitable for the required application temperature.

TC viscometers with additional filling and cleaning tube and with glass thread

- the technical measurement characteristics are in accordance with DIN 51 562, part 1, ISO/DIS 3105 (BS-IP-SL)
- for use in combination with an automatic viscosity measuring instrument and an AVS 24, AVS 26 or AVS 270 automatic viscometer cleaner
- filling quantity: 18 ... 22 ml
- overall length: approx. 355 mm

calibrated,
with constant for automatic measurements

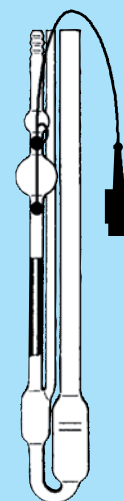
Type No.	Order No.	Type No.	Order No.	Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)	
+10 ... +80 °C		-40 ... +30 °C		+70 ... +150 °C						
562 03	285423120	–	–	–	–	0c	0.47	0.003	0.5	... 3
562 10	285423130	563 10	285423240	564 10	285423330	I	0.54	0.01	1,2	... 10
562 13	285423140	563 13	285423250	564 13	285423340	Ic	0.84	0.03	3	... 30
562 20	285423150	563 20	285423260	564 20	285423350	II	1.15	0.1	10	... 100
562 23	285423170	563 23	285423270	564 23	285423360	IIc	1.51	0.3	30	... 300
562 21	285423160	–	–	–	–	IIa	1.69	0.5	50	... 500
562 30	285423180	563 30	285423280	564 30	285423370	III	2.05	1	100	... 1000
562 33	285423200	563 33	285423290	564 33	285423380	IIIc	2.7	3	300	... 3000
562 31	285423190	–	–	–	–	IIIa	3.0	5	500	... 5000
562 40	285423210	563 40	285423300	564 40	285423390	IV	3.7	10	1000	... 10000
562 43	285423230	563 43	285423320	564 43	285423400	IVc	4.9	30	3000	... 20000
562 41	285423220	563 41	285423310	–	–	IVa	5.3	50	5000	... 30000

Ubbelohde viscometers with TC sensors

Viscometers with suspended ball level for determination of absolute and relative kinematic viscosity of liquids with Newtonian flow behaviour. The measuring levels are marked by TC sensors. The meniscus passage is detected due to the different conductivity of the liquid phase and the gas phase. A measurement stand of the type series AVS/S is not required. TC viscometers can be used to determine the kinematic viscosity of all liquids with Newtonian flow behaviour.

They are especially suitable for liquids that cannot be detected with other systems: untransparent and/or black and/or electric conductive measuring samples.

TC viscometers are manufactured from technical glass types with an expansion coefficient of $\alpha = \text{ca. } 9 \cdot 10^{-6}$. Due to the electric properties of TC sensors, it is important to make sure that a type is selected that is suitable for the required application temperature.



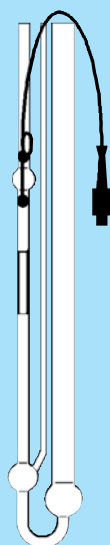
TC viscometers

- the technical measurement characteristics are in accordance with DIN 51 562, part 1, ISO/DIS 3105 (BS-IP-SL)
- for use in combination with an automatic viscosity measuring instrument and an AVS 24, AVS 26 or AVS 270 automatic viscometer cleaner
- filling quantity: 18 ... 22 ml
- overall length: ca. 355 mm

calibrated,
with constant for automatic measurements

Type No.	Order No.	Type No.	Order No.	Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)
+10 ... +80 °C		-40 ... +30 °C		+70 ... +150 °C					
567 03	285423420	–	–	–	–	0c	0.47	0.003	0.5 ... 3
567 10	285423430	568 10	285423540	569 10	285423630	I	0.64	0.01	1.2 ... 10
567 13	285423440	568 13	285423550	569 13	285423640	Ic	0.84	0.03	3 ... 30
567 20	285423450	568 20	285423560	569 20	285423650	II	1.15	0.1	10 ... 100
567 23	285423470	568 23	285423570	569 23	285423660	IIc	1.51	0.3	30 ... 300
567 21	285423460	–	–	–	–	IIa	1.69	0.5	50 ... 500
567 30	285423480	568 30	285423580	569 30	285423670	III	2.05	1	100 ... 1000
567 33	285423500	568 33	285423590	569 33	285423680	IIIc	2.7	3	300 ... 3000
567 31	285423490	–	–	–	–	IIIa	3.0	5	500 ... 5000
567 40	285423510	568 40	285423600	569 40	285423690	IV	3.7	10	1000 ... 10000
567 43	285423530	568 43	285423620	569 43	285423700	IVc	4.9	30	3000 ... 20000
567 41	285423520	568 41	285423610	–	–	IVa	5.3	50	5000 ... 30000

Micro-Ubbelohde viscometers with TC sensors



Viscometers with suspended ball level for determination of absolute and relative kinematic viscosity of liquids with Newtonian flow behaviour. The measuring levels are marked by TC sensors. The meniscus passage is detected due to the different conductivity of the liquid phase and the gas phase. A measurement stand of the type series AVS/S is not required. TC viscometers can be used to determine the kinematic viscosity of all liquids with Newtonian flow behaviour.

They are especially suitable for liquids that cannot be detected with other systems: untransparent and/or black and/or electric conductive measuring samples.

TC viscometers are manufactured from technical glass types with an expansion coefficient of $\alpha = \text{ca. } 9 \cdot 10^{-6}$. Due to the electric properties of TC sensors, it is important to make sure that a type is selected that is suitable for the required application temperature.

Micro TC viscometers

- the technical measurement characteristics are in accordance with DIN 51 562, Part 2
- for use in combination with an automatic viscosity measuring instrument
- filling quantity: 3 ... 4 ml
- overall length: approx. 350 mm

calibrated,
with constant for automatic measurements

Type No.	Order No.	Type No.	Order No.	Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)		
+10 ... +80 °C		-40 ... +30 °C		+70 ... +150 °C							
572 10	285423710	573 10	285423780	574 10	285423850	M I	0.40	0.01	0.4	...	6
572 13	285423720	573 13	285423790	574 13	285423860	M Ic	0.53	0.03	1.2	...	18
572 20	285423730	573 20	285423800	574 20	285423870	M II	0.70	0.1	4	...	60
572 23	285423740	573 23	285423810	574 23	285423880	M IIc	0.95	0.3	12	...	180
572 30	285423750	573 30	285423820	574 30	285423890	M III	1.26	1	40	...	800

Micro-Ubbelohde viscometers

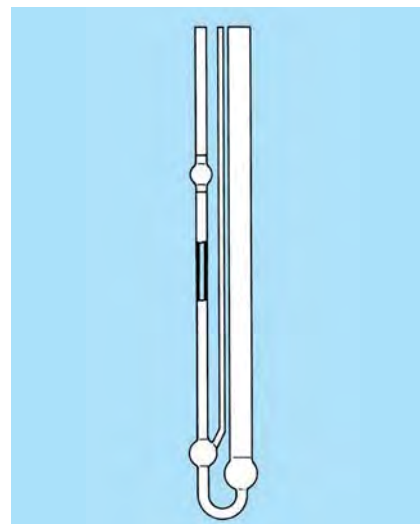
Viscometers for dilution viscometry

Viscometers with suspended ball level for determination of absolute and relative kinematic viscosity of liquids with Newtonian flow behavior. Due to their design, these viscometers are especially suitable for measurement of small liquid quantities and for particularly short running times. All viscometers are provided with ring marks. This ensures that viscometers for automatic measurements can also be checked by means of manual measurements.

Micro-Ubbelohde viscometers (DIN)

The calibrated viscometers are delivered with manufacturer's certificate in accordance with DIN 55 350, Part 18. For measurements with automatic viscosity measuring instruments, another constant is valid. This constant is determined by multiplication of the constant K with the correction factor F.

- in accordance with DIN 51562, Part 2
- filling quantity: 3 ... 4 ml
- overall length: approx. 290 mm



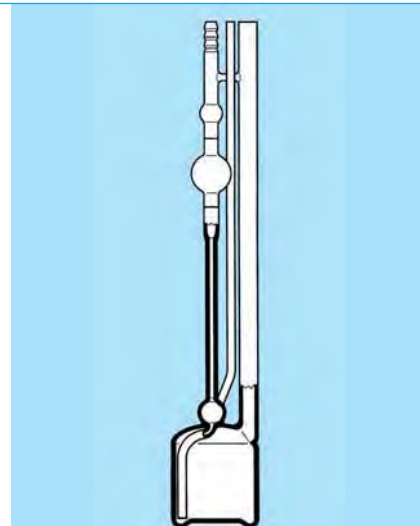
calibrated, with constant for manual measurement		calibrated, with constant for automatic measurement		not calibrated, without constant; for determination of relative viscosity		Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm²/s] (approx.)
Type No.	Order No.	Type No.	Order No.	Type No.	Order No.			
536 10	285401009	537 10	285401103	538 10	285401206	M I	0.40	0.01
536 13	285401017	537 13	285401111	538 13	285401214	M Ic	0.53	0.03
536 20	285401025	537 20	285401128	538 20	285401222	M II	0.70	0.1
536 23	285401033	537 23	285401136	538 23	285401239	M IIc	0.95	0.3
536 30	285401041	537 30	285401144	538 30	285401247	M III	1.26	1

Viscometers for dilution viscometry

Viscometers with suspended ball level designed according to the principle of the Ubbelohde viscometers for determination of the limit viscosity number of polymers. The limit viscosity number is determined automatically in combi-

nation with viscosity measuring instruments and piston burette, type AVS 20, made by SCHOTT Instruments.

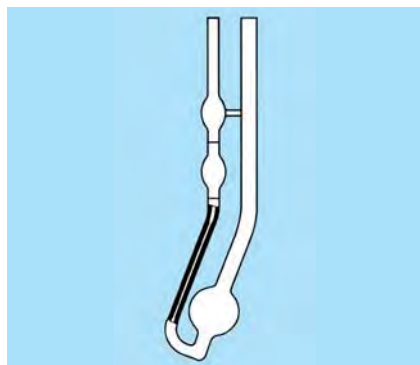
- filling quantity: 15 ... 75 ml
- overall length: approx. 290 mm



not calibrated,
for automatic measurements

Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm²/s] (approx.)
531 00	285401403	0	0.36	0.001	0.35 ... 0.6
531 03	285401428	0c	0.47	0.003	0.5 ... 2
531 01	285401411	0a	0.53	0.005	0.8 ... 3
531 10	285401436	I	0.64	0.01	1.2 ... 6
531 13	285401444	Ic	0.84	0.03	3 ... 20
531 20	285401452	II	1.15	0.1	10 ... 60

Cannon-Fenske viscometers



Cannon-Fenske routine viscometers comply with standards ISO/DIS 3105, ASTM D 2515, BS 188 with respect to technical measuring specifications.

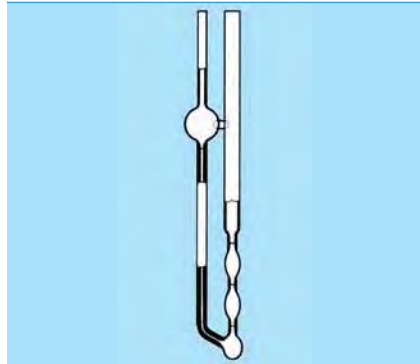
- are suitable for all Newtonian liquids with a viscosity of 0.35...20,000 mm²/s

- the present design has, as a supplement to the standard, a deepening in the lower bend. Accordingly, these viscometers can also be used for automatic measurements.
- filling quantity: approx. 7 ... 10 ml
- overall length: approx. 245 mm

calibrated,
with ring mark,
for manual measurements

with constant
for automatic measurements

Type No.	Order No.	Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)
513 00	285403507	520 00	285403704	25	0.30	0.002	0.4 ... 1.6
513 03	285403515	520 03	285403712	50	0.44	0.004	0.8 ... 3.2
513 01	285403523	520 01	285403729	75	0.54	0.008	1.6 ... 6.4
513 10	285403531	520 10	285403737	100	0.63	0.015	3 ... 15
513 13	285403548	520 13	285403745	150	0.78	0.035	7 ... 35
513 20	285403556	520 20	285403753	200	1.01	0.1	20 ... 100
513 23	285403564	520 23	285403761	300	1.27	0.25	50 ... 200
513 21	285403572	520 21	285403778	350	1.52	0.5	100 ... 500
513 30	285403589	520 30	285403786	400	1.92	1.2	240 ... 1200
513 33	285403597	520 33	285403794	450	2.35	2.5	500 ... 2500
513 40	285403601	520 40	285403807	500	3.20	8	1600 ... 8000
513 43	285403618	520 43	285403815	600	4.20	20	4000 ... 20000



Cannon-Fenske reverse flow viscometers

- Comply with standards ISO/DIS 3105, ASTM D 2515, ASTM D 446,

NF T 60 - 100 with respect to technical measuring specifications.

- filling quantity: approx. 12 ml
- overall length: approx. 295 mm

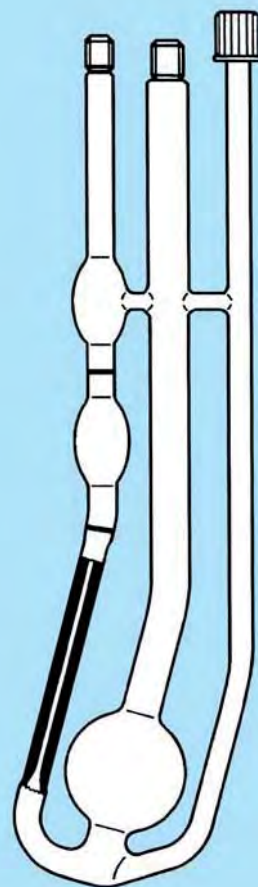
calibrated,
with 3 ring marks,
with 2 constants,
only for manual measurement

Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)
511 00	285403001	25	0,31	0.002	0.4 ... 1.6
511 03	285403018	50	0,42	0.004	0.8 ... 3.2
511 01	285403026	75	0,54	0.008	1.6 ... 6.4
511 10	285403034	100	0,63	0.015	3 ... 15
511 13	285403042	150	0,78	0.035	7 ... 35
511 20	285403059	200	1,02	0.1	20 ... 100
511 23	285403067	300	1,26	0.25	50 ... 200
511 21	285403075	350	1,48	0.5	100 ... 500
511 30	285403083	400	1,88	1.2	240 ... 1200
511 33	285403091	450	2,20	2.5	500 ... 2500
511 40	285403104	500	3,10	8	1600 ... 8000
511 43	285403112	600	4,00	20	4000 ... 20000

Cannon-Fenske routine viscometers

comply with standards ISO/DIS 3105, ASTM D 2515, BS 188 with respect to technical measuring specifications. These viscometers are preferably used for automatic measurements when an AVS 24, AVS 26 or AVS 270 automatic viscometer cleaner is used simultaneously. The additional filling and cleaning tube and the glass thread ensure safe operational use. The calibrated viscometers are delivered with manufacturer's certificate in accordance with DIN 55 350, Part 18.

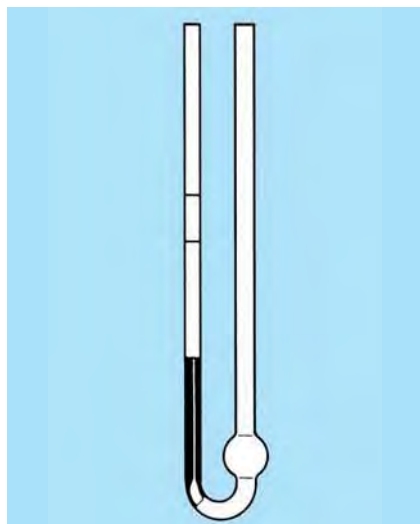
- are suitable for all Newtonian liquids with a viscosity of 0.35 ... 20,000 mm²/s.
- filling quantity: approx. 7 ... 12 ml
- overall length: approx. 245 mm



calibrated,
with ring marks,
with constant for automatic measurements

Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)	
546 00	285402116	25	0.30	0.002	0.4	1.6
546 03	285402132	50	0.44	0.004	0.8	3.2
546 01	285402124	75	0.54	0.008	1.6	6.4
546 10	285402149	100	0.63	0.015	3	15
546 13	285402157	150	0.78	0.035	7	35
546 20	285402165	200	1.01	0.1	20	100
546 23	285402181	300	1.27	0.25	50	200
546 21	285402173	350	1.52	0.5	100	500
546 30	285402198	400	1.92	1.2	240	1200
546 33	285402202	450	2.35	2.5	500	2500
546 40	285402219	500	3.20	8	1600	8000
546 43	285402227	600	4.20	20	4000	20000

Ostwald viscometers

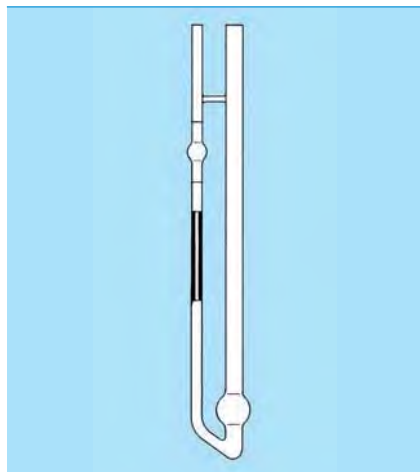


Ostwald viscometers

- filling quantity: 3 ml
- overall length: approx. 220 mm

with ring marks,
without constant,
for manual measurements

Type No.	Order No.	Capillary Ø i [mm]	Transit time for water approx. [s]	Constant K (approx.)	for use from [mm ² /s] (approx.)
509 03	285404006	0.3	250	0.004	0.3
509 04	285404014	0.4	75	0.01	1
509 05	285404022	0.5	30	0.03	2.5
509 06	285404039	0.6	15	0.07	5.5
509 07	285404047	0.7	10	0.1	10



Micro-Ostwald viscometers

- are suitable for measurements of small liquid quantities even with extreme formation of foam.
- filling quantity: 2 ml
- overall length: approx. 290 mm

calibrated,
with ring marks,
with constant,
for manual measurements

calibrated,
with ring marks,
with constant,
for automatic measurements

Type No.	Order No.	Type No.	Order No.	Capillary No.	Capillary Ø i [mm]	Constant K (approx.)	Measuring range [mm ² /s] (approx.)		
516 10	285404203	517 10	285404306	I	0.43	0.01	0.4	...	6
516 13	285404211	517 13	285404314	Ic	0.60	0.03	1.2	...	18
516 20	285404228	517 20	285404322	II	0.77	0.1	4	...	60
516 23	285404236	517 23	285404339	IIc	1.00	0.3	12	...	180
516 30	285404244	517 30	285404347	III	1.36	1	40	...	800

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93