

Аксессуары



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Accessories

Brackets and stands

All brackets and stands are designed to ensure that the viscometers are held vertically. They also protect the viscometers from breakage. The maximum deviation is $< 1^\circ$. In application in conjunction with SCHOTT Instruments and other commercially available see-

through thermostats the viscometers can only be used with the appropriate stand or bracket.

For DIN Ubbelohde viscometers that are used as reference measuring standard, specifically modified bracket (VZ 5840) must be used.

Brackets made of stainless steel

suitable for use with all Ubbelohde viscometers

for manual and automatic measurements

Type No.	Order No.
053 92	285405043
VZ 5840 (accessory for reference measuring standard)	285417201

suitable for use with Ubbelohde viscometers with TC sensors

Type No.	Order No.
053 93	285405035

suitable for use with all reverse flow viscometers

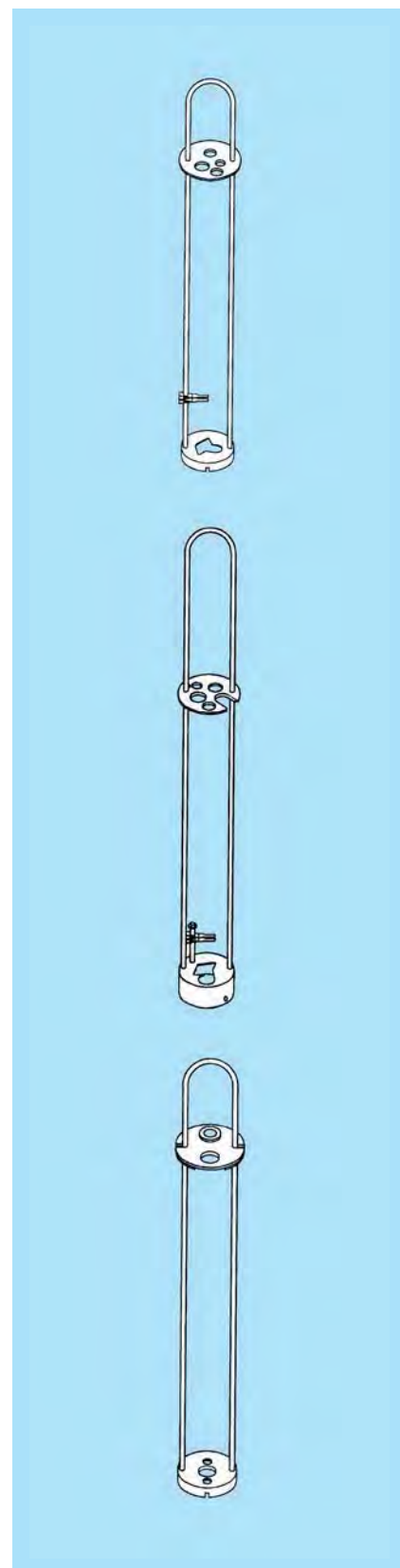
(Cannon-Fenske and BS/IP U-tube viscometers) for manual and automatic measurements (not illustrated)

Type No.	Order No.
053 96	285405019

suitable for use with Micro-Ostwald viscometers

for manual and automatic measurements

Type No.	Order No.
053 97	285405027



Accessories



Stands made of PTFE

suitable for use with Cannon-Fenske routine viscometers
for automatic measurements only (not illustrated)

Type No.	Order No.
065 99	285405113

Brackets for reference measuring standard

DIN Ubbelohde viscometers which are used as testing standard should be stored in a specially modified viscometer bracket (053 92) according to official inspection / calibration authorities. The

extension set for the test standard (VZ 5840) guarantees vertical slope with a maximum deviation of $< 1^\circ$ and the centered positioning of the capillaries.

Type No.	Order No.
VZ 5840	285417201

Control thermometers

Type No.	Order No.	Measuring range °C			Graduation °C
VZ 2801	285415763	- 5	...	+ 38	1/10
VZ 2802	285415771	+ 33	...	+ 67	1/10
VZ 2803	285415788	+ 66	...	+ 102	1/10
VZ 2804	285415796	+ 95	...	+ 152	1/10
VZ 2901	285415809	+ 20	...	+ 25	1/100
VZ 2907	285417078	+ 22	...	+ 27	1/100
VZ 2908	285415825	+ 37	...	+ 42	1/100
VZ 2905	285415841	+ 45	...	+ 50	1/100
VZ 2906	285415858	+ 97	...	+ 101	1/100
VZ 2909	285417094	+ 132	...	+ 137	1/100

Accessories

LabPump

The LabPump VZ 5655 (not illustrated) used in manual measurements and semi-automatic measurements to suck and pump up solutions:

- filling of viscometers
- rinsing with the next sample
- sucking up between manual measurements
- emptying of viscometers without removing them from the thermostatic bath

Since the materials used and the connections of the LabPump VZ 5655 are made of PTFE or stainless steel, the pump is suitable for use with aggressive mediums.

The range of use for semi-automatic processing of samples, e.g. with a viscosity measuring instrument AVS 360, AVS 370 or AVS 470, is possible up to a viscosity of 30,000 mm²/s. For semi-automatic processing work, the PTFE tube combination with stand (see illustration) and the waste bottle, type no. VZ 5624, are used.

Type No.	Order No.
VZ 5655	1040755

Polyamide bracket

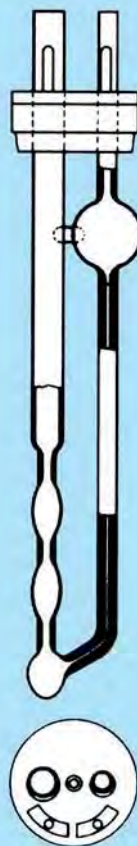
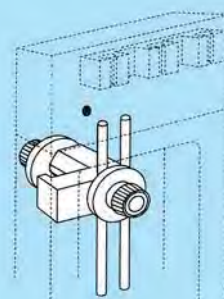
for use with Cannon-Fenske routine viscometers,
Cannon-Fenske reverse flow viscometers and all Ostwald viscometers
for manual measurements only

Type No.	Order No.
064 99	285405105

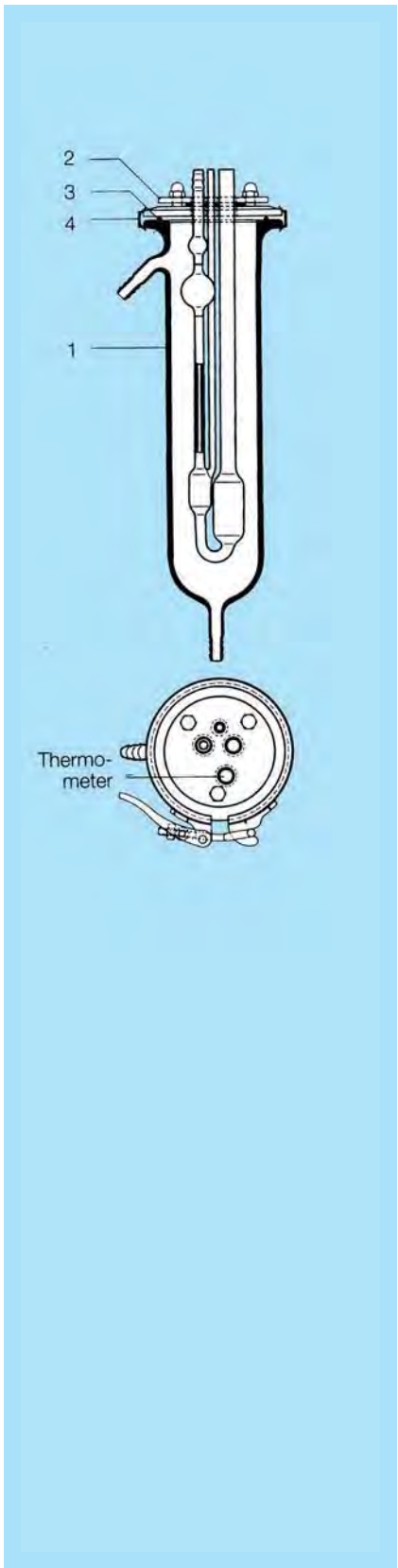
PTFE bracket

for use with Cannon-Fenske routine viscometers,
for automatic measurements only (not illustrated)

Type No.	Order No.
065 99	285405113



Accessories



Temperature stabilization jackets

In the absence of a see-through thermostat the temperature of capillary viscometers can be stabilized in this type of jacket using circulation thermostats in the temperature range 0 to 180 °C. The shape of the jacket and the number of holes in the support plate depend

upon the type of viscometer being used. The support plate has been designed to facilitate changing the viscometer when required. An additional hole is provided in the support plate so that a control thermometer can be fitted. A quick-action seal simplifies changing viscometers.

Temperature stabilization jacket with support plate for Ubbelohde viscometers

Type No.	Order No.	Item No.	Comment
577 00	285405508		complete, without viscometer
Component parts			
577 01	285405516	1	temperature stabilization jacket, straight
238 00	285405524	2	support plate with 4 silicone rings (d = 4, 6, 8 and 10 mm)
225 34	285405532	3	silicone O-ring, ND 60
072 34	285405549	4	quick-action seal, NW 60

Accessories

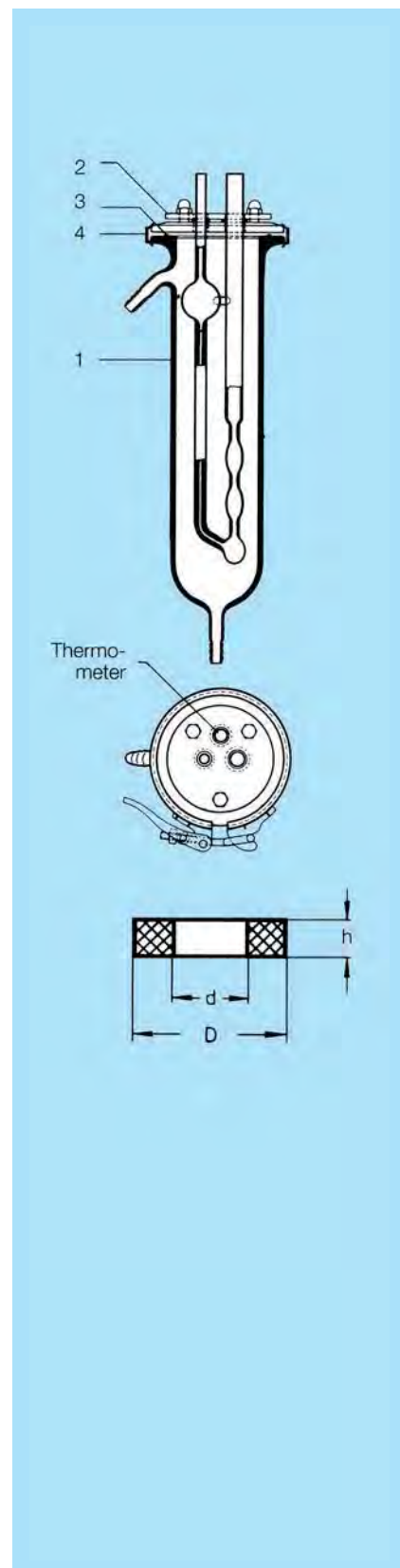
Temperature stabilization jacket with support plate for Cannon-Fenske reverse flow viscometers and Ostwald viscometers

Component parts

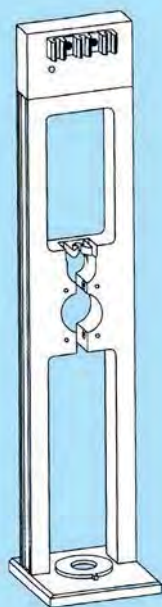
Type No.	Order No.	Item No.	Comment
577 01	285405516	1	temperature stabilization jacket, straight
225 34	285405532	3	silicone O-ring, ND 60
072 34	285405549	4	quick-action seal, NW 60

Silicone rings

Type No.	Order No.	d mm	D mm	h mm
228 11	285405808	4	10	5
228 14	285405816	6	16	5
228 16	285405824	8	16	5
228 17	285405832	10	16	5



AVS measuring stands and tube sets



AVS measuring stands

Measuring stands of the type series AVS/S can be used to measure the flow-through time in viscometers automatically.

The measuring stands can be connected to all measuring instruments made by SCHOTT Instruments for automatic measurement of viscosity and operate with all standard viscometers for repetitive measurements.

Automatic measurements have the following advantages:

- the repetitive standard deviation is less than for manual measurements
- the measurement is free from subjective factors of influence
- the results can be printed out and/or be automatically documented on data memory system
- automatic processing of sample series is available.

The use of different materials ensures unproblematic adaptation to existing measurement temperatures and applications.

The measuring stands or brackets can be exchanged at random.

The distance between the levels of the automatic optoelectronic unloading system is $40.00 \text{ mm} \pm 0.03 \text{ mm}$. When measuring stands are replaced, this results in a standard deviation of VK = 0.05 % for Ubbelohde viscometers.

For repetitive measurements with viscosity measuring instruments and Ubbelohde viscometers with measuring stands, the standard deviation VK = 0.03 %.

Manually calibrated Ubbelohde viscometers can also be used in AVS measuring stands. If the automatic sensing levels do not correspond to the ring marks, the superimposed meniscus detection system will provide a higher constant. The difference amounts to 0.1 % per millimeter of height offset.

Required tube/cable combinations

Required cable/ cable combinations					
Viscometer type					
	517 ...	540 ...	542 ...	547 ...	531 ... ⁽³⁾
	520 ...	541 ...	543 ...	548 ...	
	530 ...	545 ...	544 ...	549 ...	
	532 ...	546 ...		552 ...	
	537 ...			553 ...	
				554 ...	
Instrument	Tube/cable combinations				
AVS 300 and	VZ 5505 ⁽¹⁾ or	VZ 5621 ⁽¹⁾ and	–	–	VZ 5857 ⁽¹⁾
AVS 310	VZ 5501 ⁽²⁾	VZ 5505 ⁽¹⁾			
AVS 350	VZ 5505 ⁽¹⁾ or	VZ 5623 ⁽²⁾	VZ 5606 ⁽¹⁾	VZ 5505 ⁽¹⁾ and	VZ 5857 ⁽¹⁾
	VZ 5501 ⁽²⁾			VZ 6226	
AVS 360 and	VZ 5104 ⁽¹⁾ or	VZ 5623 ⁽²⁾	VZ 5623 ⁽²⁾	VZ 5104 ⁽¹⁾ or	VZ 5104 ⁽¹⁾ or
AVS 361	VZ 5622 ⁽²⁾			VZ 5622 ⁽²⁾	VZ 5622 ⁽²⁾
AVS 400 and	VZ 5505 ⁽¹⁾ or	VZ 5621 ⁽¹⁾ and	–	–	VZ 5857 ⁽¹⁾
AVS 410	VZ 5501 ⁽²⁾	VZ 5505 ⁽¹⁾			
AVS 440 and	VZ 5505 ⁽¹⁾ or	VZ 5621 ⁽¹⁾ and	VZ 5606 ⁽¹⁾	VZ 5505 ⁽¹⁾ and	VZ 5857 ⁽¹⁾
AVS 450	VZ 5501 ⁽²⁾	VZ 5505 ⁽¹⁾		VZ 6226	

(1) Silicon tube

(2) PTFE tube (aggressive mediums)

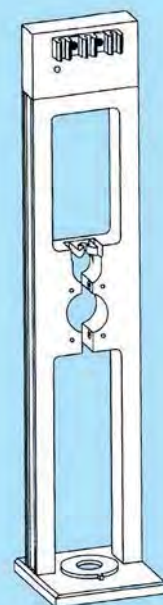
(3) The necessary connection tube TZ 1607 (l = 1.5 m) is included at the piston burette ViscoDoser AVS 20.

AVS measuring stands

	Measuring stands AVS/S	AVS/S-HT	AVS/SK	AVS/S-CF	AVS/SK-V
Available viscometers	Ubbelohde viscometers in accordance with DIN, ASTM, ISO 3105, Micro-Ubbelohde viscometers, Micro-Ostwald viscometers			Cannon-Fenske-routine viscometer	Ubbelohde-dilution viscometer
Temperature range	-80 ...+100 °C	-80 ...+200 °C	0 ...+60 °C	-80 ...+100 °C	0 ...+60 °C other temperature ranges available on request
Suitable for use with the measuring units	AVS 310, AVS 350, AVS 360, AVS 361, AVS 370, AVS 410, AVS 450, AVS 470, AVS 500, AVSPro				
Suitable for use with the thermostatic baths	CT 52, CT 53, CT 53 HT, CT 53 TT, CT 54				
Suitable brackets (type no.)	05392 05397			no bracket required	
Electrical connection	Cable VZ 6225 for all measuring stands to all instruments (is included in hose sets VZ 5505, VZ 5622 and VZ 5857), control lamp as function display				
Distance between measuring levels	40.00 mm ± 0.03 mm at 25 °C				
Signal transmission	Optically using optical fibres from the measuring level in the stand head, converted into analogue signal from stand to measuring instrument				
Material	Aluminium, TiO ₂ -anodized		PVDF, stainless steel	Aluminium, TiO ₂ -anodized	PVDF, stainless steel
Dimensions (W x H x D) mm	90 x 447 x 90	90 x 496 x 90	90 x 447 x 90	90 x 447 x 90	90 x 447 x 90
Weight (kg) appr.	1.0	1.25	0.8	1.0	0.8
Accessories included in scope of delivery	Bracket Type No. 05392 for Ubbelohde viscometers, tube/cable combination VZ 5505			tube/cable combination VZ 5505	tube/cable combination VZ 5857, magnetic stirring rods, fastening springs for viscometer

Note:

When TC viscometers are being used, a bracket type no. 05393, with the necessary tube set is required only. A measuring stand is not required.



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