

Dynamic Viscosity - Vacuum Viscometer - CMVV & AIVV

ASTM D 2171, EN 12596, IP 222

Product group(s): Bitumen, Viscosity

User group(s): Asphalt, Bitumen, Tar, Viscosity

Scope: Used to characterizes the flow behavior at +60°C (140°F).

Suitable for:

cutbacks and asphalt cements at +60°C (140°F) with a viscosity from 0.036 to over 200 000 P.

The time is measured for a fixed volume of the liquid to be drawn-up by vacuum through a capillary tube, under closely controlled conditions of vacuum and temperature.

The viscosity in poises is calculated by multiplying the flow time in seconds by the viscometer calibration factor.

1 dPa*s = 1 P = poise 1 Pa*s = 10 P = 10 poises

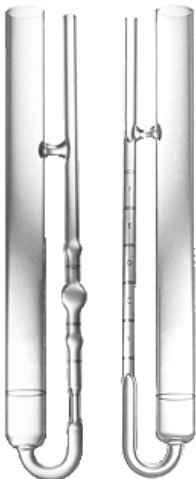
CMVV - Cannon-Manning Vacuum Viscometer

- Manual Measurements
- Factory Certified

and

AIVV - Asphalt Institute Vacuum Viscometer

- Manual Measurements
- Factory Certified



Vacuum Viscometer - CMVV & AIVV

to be composed of:

- CMVV - Cannon-Manning Vacuum Viscometer
- Holder
- Vacuum Device

Required accessories:

- Tempering Bath
- Filling & Cleaning Equipment

Technical Data

CMVV - Cannon-Manning Vacuum Viscometer

Length: 180 mm

Required sample: 6 ml

AIVV - Asphalt Institute Vacuum Viscometer

Length: 180 mm

Required sample: 3 ml

Main Unit

22-0500	CMVV - Cannon-Manning Vacuum Viscometer - Size: 4 Viscosity range: 0.036 to 0.8 poise (dPa*s) for manual measurements (factory certified)
22-0501	CMVV - Cannon-Manning Vacuum Viscometer - Size: 5 Viscosity range: 0.12 to 2.4 poise (dPa*s) for manual measurements (factory certified)
22-0502	CMVV - Cannon-Manning Vacuum Viscometer - Size: 6 Viscosity range: 0.36 to 8 poise (dPa*s) for manual measurements (factory certified)
22-0503	CMVV - Cannon-Manning Vacuum Viscometer - Size: 7 Viscosity range: 1.2 to 24 poise (dPa*s) for manual measurements (factory certified)
22-0504	CMVV - Cannon-Manning Vacuum Viscometer - Size: 8 Viscosity range: 3.6 to 80 poise (dPa*s) for manual measurements (factory certified)
22-0505	CMVV - Cannon-Manning Vacuum Viscometer - Size: 9 Viscosity range: 12 to 240 poise (dPa*s) for manual measurements (factory certified)
22-0506	CMVV - Cannon-Manning Vacuum Viscometer - Size: 10 Viscosity range: 36 to 800 poise (dPa*s) for manual measurements (factory certified)
22-0507	CMVV - Cannon-Manning Vacuum Viscometer - Size: 11 Viscosity range: 120 to 2 400 poise (dPa*s) for manual measurements (factory certified)
22-0508	CMVV - Cannon-Manning Vacuum Viscometer - Size: 12 Viscosity range: 360 to 8 000 poise (dPa*s) for manual measurements (factory certified)
22-0509	CMVV - Cannon-Manning Vacuum Viscometer - Size: 13 Viscosity range: 1 200 to 24 000 poise (dPa*s) for manual measurements (factory certified)
22-0510	CMVV - Cannon-Manning Vacuum Viscometer - Size: 14 Viscosity range: 3 600 to 80 000 poise (dPa*s) for manual measurements (factory certified)
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22-0520	AIVV - Asphalt Institute Vacuum Viscometer - Size: 25 Viscosity range: 42 to 800 poise (dPa*s) for manual measurements (factory certified)
22-0521	AIVV - Asphalt Institute Vacuum Viscometer - Size: 50 Viscosity range: 180 to 3 200 poise (dPa*s) for manual measurements (factory certified)
22-0522	AIVV - Asphalt Institute Vacuum Viscometer - Size: 100 Viscosity range: 600 to 12 800 poise (dPa*s) for manual measurements (factory certified)
22-0523	AIVV - Asphalt Institute Vacuum Viscometer - Size: 200 Viscosity range: 2 400 to 52 000 poise (dPa*s) for manual measurements (factory certified)

22-0524 AIVV - Asphalt Institute Vacuum Viscometer - Size: 400R
 Viscosity range: 9 600 to 1 400 000 poise (dPa*s)
 for manual measurements (**factory certified**)

22-0525 AIVV - Asphalt Institute Vacuum Viscometer - Size: 800R
 Viscosity range: 38 000 to 5 800 000 poise (dPa*s)
 for manual measurements (**factory certified**)

Options & Accessories

22-0529 Holder "VV" without suspension bracket
 neoprene rubber, fits Ø 51 mm bath openings
 for Vacuum Viscosimeter
 (Cannon-Manning, Asphalt Institute & Modified Koppers)

22-0528 Stopper, solid rubber, Ø 2-6 mm, 20 mm high, pack of 10
 (to close the viscometer tube)

22-0516 Digital Vacuum Regulator with pump, 240 V, 175 W
 vertical orientation, non-mercury system, CE-approved

22-0515 Vacuum Manifold

24-0618 Viscosity Oil Standard - S 30 000
 acc. ASTM D 2162, **UKAS certified**

Quantity: 470 ml / 1 pint

Approx. Kinematic (Dynamic) Viscosity at:

25°C / 77°F	= 81000 mm ² /s (73000 mPa·s)
37.8°C / 100°F	= 28000 mm ² /s (24000 mPa·s)
40°C / 104°F	= 23000 mm ² /s (21000 mPa·s)
50°C / 122°F	= 11000 mm ² /s (9700 mPa·s)
80°C / 176°F	= 1744 mm ² /s (1510 mPa·s)
100°C / 212°F	= 660 mm ² /s (560 mPa·s)

Order Guideline

Minimum equipment: Viscometers, Holders, Vacuum Device
 Additional requirements: Termostatic Bath