

CONE/PLATE VISCOMETER



CONE/PLATE VISCOMETER RANGES – CENTIPOISE (mPa•s)

LV SERIES VISCOMETERS & RHEOMETERS

Spindle	LVT	LVDV-I+	LVDV-II+*	LVDV-III	Shear Rate** (sec ⁻¹)	Sample Volume (ml)
CP-40	0.5 - 1,023	0.3 - 1,023	0.2 - 3,070	0.1 - 3,070	7.50N	0.5
CP-41	1.9 - 3,837	1.2 - 3,837	0.6 - 11,510	0.5 - 11,510	2.00N	2.0
CP-42	1.0 - 2,000	0.6 - 2,000	0.3 - 6,000	0.2 - 6,000	3.84N	1.0
CP-51	8.0 - 16,000	4.9 - 16,000	2.4 - 48,000	1.9 - 48,000	3.84N	0.5
CP-52	15.4 - 30,720	9.3 - 30,720	4.6 - 92,160	3.7 - 92,160	2.00N	0.5

RV SERIES VISCOMETERS & RHEOMETERS

Spindle	RVT	RVDV-I+	RVDV-II+*	RVDV-III	Shear Rate** (sec ⁻¹)	Sample Volume (ml)
CP-40	3.3 - 6,540	3.3 - 10,900	1.6 - 32,700	1.3 - 32,700	7.50N	0.5
CP-41	12.3 - 24,560	12.3 - 40,933	6.1 - 122,800	4.9 - 122,800	2.00N	2.0
CP-42	6.4 - 12,800	6.4 - 21,300	3.2 - 64,000	2.6 - 64,000	3.84N	1.0
CP-51	51.2 - 102,400	51.2 - 170,666	25.6 - 512,000	20.5 - 512,000	3.84N	0.5
CP-52	98.3 - 30,720	98.3 - 327,666	49.2 - 983,000	39.3 - 983,000	2.00N	0.5

HA SERIES VISCOMETERS & RHEOMETERS

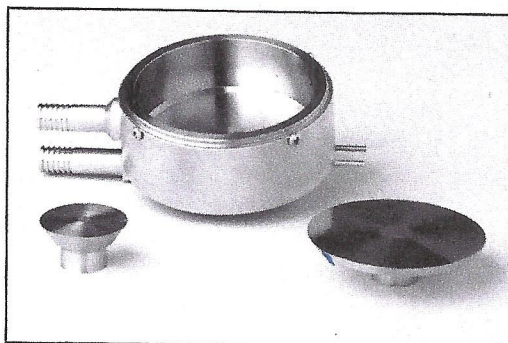
Spindle	HAT	HADV-I+	HADV-II+*	HADV-III	Shear Rate** (sec ⁻¹)	Sample Volume (ml)
CP-40	6.6 - 13,080	6.6 - 21,800	3.3 - 65,400	2.6 - 65,400	7.50N	0.5
CP-41	24.6 - 49,120	24.6 - 81,866	12.3 - 245,600	9.8 - 245,600	2.00N	2.0
CP-42	12.8 - 25,600	12.8 - 42,600	6.4 - 128,000	5.1 - 128,000	3.84N	1.0
CP-51	102.4 - 204,800	102.4 - 341,333	51.2 - 1,024,000	41.0 - 1,024,000	3.84N	0.5
CP-52	196.6 - 393,200	196.6 - 655,333	98.3 - 1,966,000	78.6 - 1,966,000	2.00N	0.5

HB SERIES VISCOMETERS & RHEOMETERS

Spindle	HBT	HBDV-I+	HBDV-II+*	HBDV-III	Shear Rate** (sec ⁻¹)	Sample Volume (ml)
CP-40	26.2 - 52,400	26.2 - 87,200	13.1 - 261,600	10.5 - 261,600	7.50N	0.5
CP-41	98.3 - 196,600	98.3 - 327,466	49.1 - 982,400	39.3 - 982,400	2.00N	2.0
CP-42	51.2 - 102,400	51.2 - 170,666	25.6 - 512,000	20.5 - 512,000	3.84N	1.0
CP-51	409.6 - 819,200	409.6 - 1,365,333	204.8 - 4,096,000	163.8 - 4,096,000	3.84N	0.5
CP-52	786.4 - 1,572,860	786.4 - 2,621,333	393.2 - 7,864,000	314.6 - 7,864,000	2.00N	0.5

*Maximum viscosity range shown is at 0.1 rpm.

**N=RPM Example: RV Viscometer with CP-42 spindle at 10 RPM has shear rate $3.84 \times 10 = 38.4 \text{ sec}^{-1}$



Various cone spindles are available for use with the Wells-Brookfield Cone/Plate Viscometer. One cone spindle is provided with the instrument and is calibrated for use with the sample cup. Additional cone spindles may be purchased and will be calibrated for use with the same sample cup. Cone spindle dimensions are shown in the table.

Cone Spindle Dimensions

SPINDLE	ANGLE (deg.)	RADIUS (cm)
CP-40	0.8	2.4
CP-41	3.0	2.4
CP-42	1.565	2.4
CP-51	1.565	1.2
CP-52	3.0	1.2