

Cone-Plate (CP) Measuring Bobs

Overview of CP Measuring bobs – for use with PTD 100 Cone-Plate only

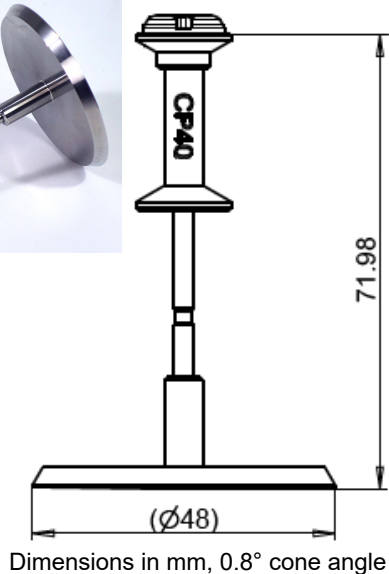
Bob	Volume [mL]	SMC ^a [-]	SRC ^b [-]	Min. visc. ViscoQC 100 [mPa·s]	Max. visc. ViscoQC 100 [mPa·s]	Min. visc. ViscoQC 300 [mPa·s]	Max. visc. ViscoQC 300 [mPa·s]	Cone angle [°]	Cone radius [mm]
CP40	0.5 mL	0.331	7.50	L: 0.2 R: 1.6 H: 13.2	3 K 33.1 K 264.8 K	0.1 1.3 10.6	31 K 331 K 2.6 M	0.8	24
CP41	2.0 mL	1.239	2.00	L: 0.6 R: 6.2 H: 50	11.6 K 123.9 K 991.1 K	0.5 5 40	116.1 K 1.2 M 9.9 M	3	24
CP42	1.0 mL	0.647	3.84	L: 0.3 R: 3.2 H: 26	6 K 64.7 K 517.6 K	0.2 2.6 21	60.6 K 647 K 5.1 M	1.5	24
CP51	0.5 mL	5.177	3.84	L: 2.4 R: 26 H: 207	48.5 K 517.7 K 4.1 M	1.9 21 166	485.2 K 5.1 M 41.4 M	1.5	12
CP52	0.5 mL	9.911	2.00	L: 4.6 R: 50 H: 396	92.8 K 991.1 K 7.9 M	3.7 40 317	928.9 K 9.9 M 79.2 M	3	12

a. Spindle Multiplier Constant

b. Shear Rate Constant

M = 1 million, K = 1 thousand,

- The default SCF (Spindle Correction Factor) is 1.
- Calculation of shear rate: Shear rate [1/s] = SRC · Speed [rpm] / Example for CP40: 7.50 × 10 rpm = 75.0 s⁻¹

Measuring Bob CP40


Dimensions in mm, 0.8° cone angle

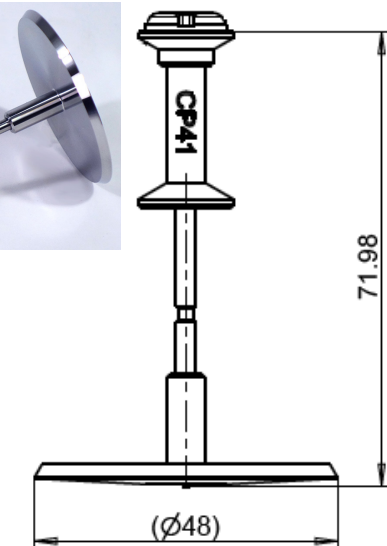
Measuring bob with defined dimensions. Suitable for shear rate control and data analysis using mathematical models of software package V-Curve. For measurement according to ISO 3219.

The measuring bob is made of stainless steel AISI 316L (1.4404/1.4435). Equipped with Toolmaster™ and magnetic coupling (stainless steel 1.4545).

The corresponding measuring cup of PTD 100 Cone-Plate is also made of stainless steel AISI 316L (1.4404).

The bob is intended for use with PTD 100 Cone-Plate only!

Find sample volume, spindle constants and viscosity measuring range in the table on p. 111.

Measuring Bob CP41


Dimensions in mm, 3° cone angle

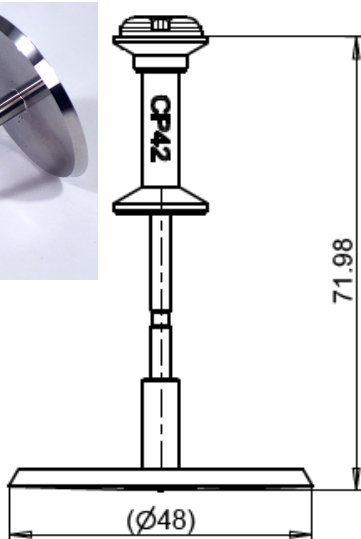
Measuring bob with defined dimensions. Suitable for shear rate control and data analysis using mathematical models of software package V-Curve. For measurement according to ISO 3219.

The measuring bob is made of stainless steel AISI 316L (1.4404/1.4435). Equipped with Toolmaster™ and magnetic coupling (stainless steel 1.4545).

The corresponding measuring cup of PTD 100 Cone-Plate is also made of stainless steel AISI 316L (1.4404).

The bob is intended for use with PTD 100 Cone-Plate only!

Find sample volume, spindle constants and viscosity measuring range in the table on p. 111.

Measuring Bob CP42


Dimensions in mm, 1.5° cone angle

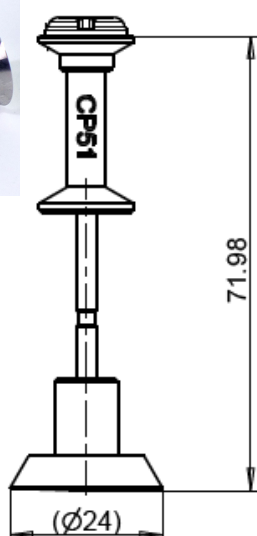
Measuring bob with defined dimensions. Suitable for shear rate control and data analysis using mathematical models of software package V-Curve. For measurement according to ISO 3219

The measuring bob is made of stainless steel AISI 316L (1.4404/1.4435). Equipped with Toolmaster™ and magnetic coupling (stainless steel 1.4545).

The corresponding measuring cup of PTD 100 Cone-Plate is also made of stainless steel AISI 316L (1.4404).

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Find sample volume, spindle constants and viscosity measuring range in the table on p. 111.

Measuring Bob CP51


Dimensions in mm, 1.5° cone angle

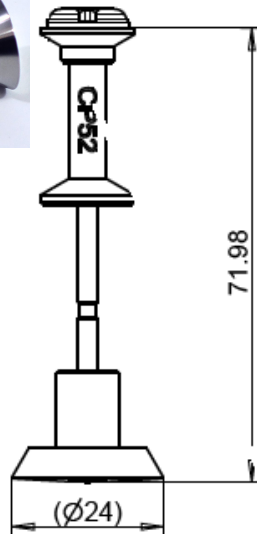
Measuring bob with defined dimensions. Suitable for shear rate control and data analysis using mathematical models of software package V-Curve. For measurement according to ISO 3219

The measuring bob is made of stainless steel AISI 316L (1.4404/1.4435). Equipped with Toolmaster™ and magnetic coupling (stainless steel 1.4545).

The corresponding measuring cup of PTD 100 Cone-Plate is also made of stainless steel AISI 316L (1.4404).

The bob is intended for use with PTD 100 Cone-Plate only!

Find sample volume, spindle constants and viscosity measuring range in the table on p. 111.

Measuring Bob CP52

Dimensions in mm, 3° cone angle

Measuring bob with defined dimensions. Suitable for shear rate control and data analysis using mathematical models of software package V-Curve. For measurement according to ISO 3219.

The measuring bob is made of stainless steel AISI 316L (1.4404/1.4435). Equipped with Toolmaster™ and magnetic coupling (stainless steel 1.4545).

The corresponding measuring cup of PTD 100 Cone-Plate is also made of stainless steel AISI 316L (1.4404).

The bob is intended for use with PTD 100 Cone-Plate only!

Find sample volume, spindle constants and viscosity measuring range in the table on p. 111.