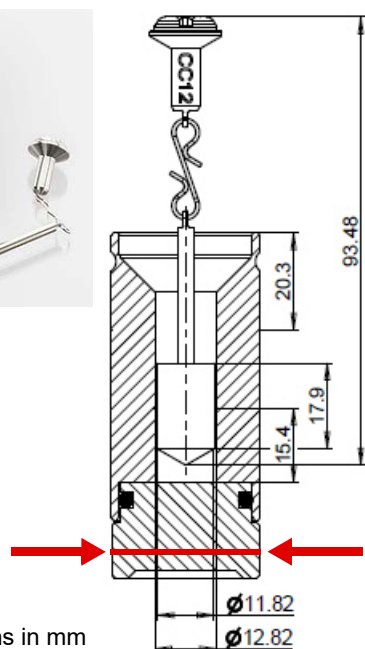


**Measuring System CC12**


Dimensions in mm

Measuring system consisting of

- 1 bob B-CC12 and
- 1 cup C-CC12

For measurement according to ISO 3219 and DIN 53019-1.

The measuring bob is made of stainless steel AISI 316L (1.4404 / 1.4545). Equipped with Toolmaster™ and magnetic coupling. A hook made of stainless steel AISI 301 (1.4310) connects the spindle body of the bob to the magnetic coupling.

The bob is intended for use with Measuring Cup C-CC12.

The cup consists of 3 parts:

- 1 wall made of anodized aluminum 3.2315 (6082)
- 1 bottom plug made of PEEK (Poly Ether Ether Ketone) black (marked by a cut in ring – see arrows)
- 1 O-ring, seals the gap between wall and bottom

**NOTE:** Click the Mat. No. of the O-ring to learn about the applicable temperature range and alternatives!

Use the system with PTD 80, PTD 175, or mount the system on the ViscoQC with the DIN adapter

- Option: Cover DIN Spindles – included in standard supply of PTD 175

ViscoQC Model	Sample volume mL	SMC <sup>a</sup>	SRC <sup>b</sup>	YMC <sup>c</sup>	Minimum viscosity <sup>d</sup>	Maximum viscosity <sup>e</sup>
					Pa·s	Pa·s
L	2	12.13	1.2908	---	@ 60 rpm: 0.02	@ 0.3 rpm: 37.9
R	2	12.13	1.2908	---	@100 rpm: 0.12	50
H	2	12.13	1.2908	---	@100 rpm: 1.0	50

a. Spindle Multiplier Constant

b. Shear Rate Constant

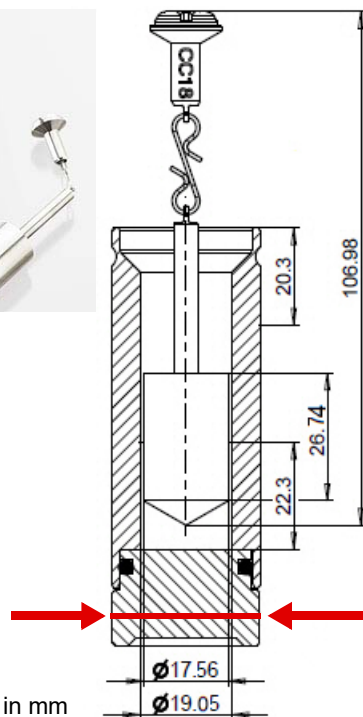
c. Yield Multiplier Constant – for yield stress determination with vane spindles and V-Curve

d. Specified speed is the maximum standard speed of the specific ViscoQC model.

e. Maximum viscosity limited to 50 Pa·s to ensure correct filling.

- The default SCF (Spindle Correction Factor) is 1.
- Calculation of shear rate: Shear rate [1/s] = SRC · Speed [rpm]
- Viscosity limits calculated for a torque range of 10 % to 100 % unless overruled by other limitations.

**TIP:** Sample handling of high-viscosity liquids requires special precautions to avoid trapped bubbles. You may have to prewarm the sample for filling.

**Measuring System CC18**


Dimensions in mm

Measuring system consisting of

- 1 bob B-CC18 and
- 1 cup C-CC18.

For measurement according to ISO 3219 and DIN 53019-1.

The measuring bob is made of stainless steel AISI 316L (1.4404 / 1.4545). Equipped with Toolmaster™ and magnetic coupling. A hook made of stainless steel AISI 301 (1.4310) connects the spindle body of the bob to the magnetic coupling.

The bob is intended for use with Measuring Cup C-CC18. The cup consists of 3 parts:

- 1 wall made of anodized aluminum 3.2315 (6082)
- 1 bottom plug made of PEEK (Poly Ether Ether Ketone) black (marked by a cut in ring – see arrows)
- 1 O-ring, seals the gap between wall and bottom

**NOTE:** Click the Mat. No. of the O-ring to learn about the applicable temperature range and alternatives!

Use the system with PTD 80, PTD 175, or mount the system on the ViscoQC with the DIN adapter.

- Option: Cover DIN Spindles – included in standard supply of PTD 175

ViscoQC Model	Sample volume mL	SMC <sup>a</sup>	SRC <sup>b</sup>	YMC <sup>c</sup>	Minimum viscosity <sup>d</sup>	Maximum viscosity <sup>e</sup>
					Pa·s	Pa·s
L	6.4	3.65	1.2908	---	@ 60 rpm: 0.005	@ 0.3 rpm: 11.4
R	6.4	3.65	1.2908	---	@100 rpm: 0.04	50
H	6.4	3.65	1.2908	---	@100 rpm: 0.3	50

a. Spindle Multiplier Constant

b. Shear Rate Constant

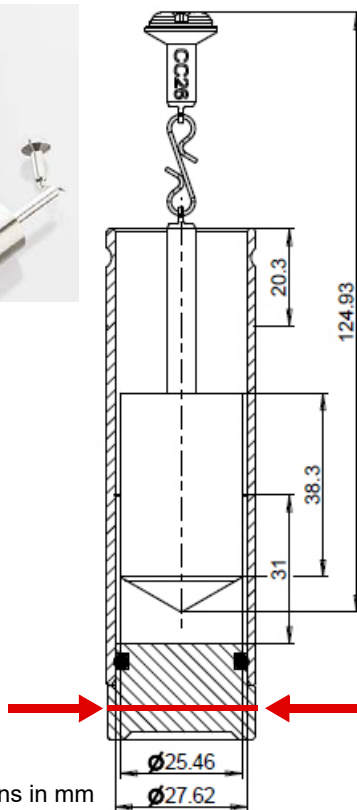
c. Yield Multiplier Constant – for yield stress determination with vane spindles and V-Curve

d. Specified speed is the maximum standard speed of the specific ViscoQC model.

e. Maximum viscosity limited to 50 Pa·s to ensure correct filling.

- The default SCF (Spindle Correction Factor) is 1.
- Calculation of shear rate: Shear rate [1/s] = SRC · Speed [rpm]
- Viscosity limits calculated for a torque range of 10 % to 100 % unless overruled by other limitations.

**TIP:** Sample handling of high-viscosity liquids requires special precautions to avoid trapped bubbles. You may have to prewarm the sample for filling.

**Measuring System CC26**


Dimensions in mm

Measuring system consisting of

- 1 bob B-CC26 and
- 1 cup C-CC26.

For measurement according to ISO 3219 and DIN 53019-1.

The measuring bob is made of stainless steel AISI 316L (1.4404 / 1.4545). Equipped with Toolmaster™ and magnetic coupling. A hook made of stainless steel AISI 301 (1.4310) connects the spindle body of the bob to the magnetic coupling.

The bob is intended for use with Measuring Cup C-CC26. The cup consists of 3 parts:

- 1 wall made of anodized aluminum 3.2315 (6082)
- 1 bottom plug made of PEEK (Poly Ether Ether Ketone) black (marked by a cut in ring – see arrows)
- 1 O-ring, seals the gap between wall and bottom

**NOTE:** Click the Mat. No. of the O-ring to learn about the applicable temperature range and alternatives!

Use the system with PTD 80, PTD 175, or mount the system on the ViscoQC with the DIN adapter.

- Option: Cover DIN Spindles – included in standard supply of PTD 175

ViscoQC Model	Sample volume mL	SMC <sup>a</sup>	SRC <sup>b</sup>	YMC <sup>c</sup>	Minimum viscosity <sup>d</sup>	Maximum viscosity <sup>e</sup>
					Pa·s	Pa·s
L	18.5	1.22	1.2908	---	@ 60 rpm: 0.002	@ 0.3 rpm: 3.8
R	18.5	1.22	1.2908	---	@100 rpm: 0.015	@ 0.5 rpm: 24.4
H	18.5	1.22	1.2908	---	@100 rpm: 0.1	50

a. Spindle Multiplier Constant

b. Shear Rate Constant

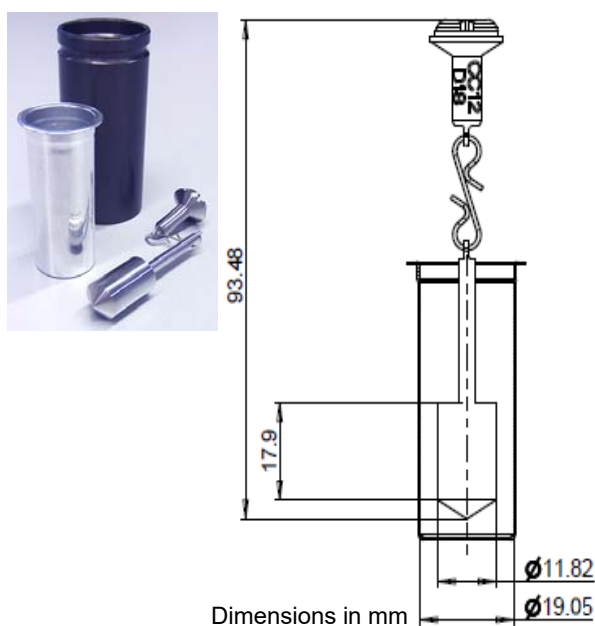
c. Yield Multiplier Constant – for yield stress determination with vane spindles and V-Curve

d. Specified speed is the maximum standard speed of the specific ViscoQC model.

e. Maximum viscosity limited to 50 Pa·s to ensure correct filling.

- The default SCF (Spindle Correction Factor) is 1.
- Calculation of shear rate: Shear rate [1/s] = SRC · Speed [rpm]
- Viscosity limits calculated for a torque range of 10 % to 100 % unless overruled by other limitations.

**TIP:** Sample handling of high-viscosity liquids requires special precautions to avoid trapped bubbles. You may have to prewarm the sample for filling.

**Disposable Measuring System CC12/D18**


Measuring system consisting of

- 1 bob B-CC12/D18,
- 1 holder CC18 with
- 100 pcs. disposable cups D18

System with defined gap, but wider than specified in ISO 3219.

The measuring bob is made of stainless steel AISI 316L (1.4404 / 1.4545). Equipped with Toolmaster™ and magnetic coupling. A hook made of stainless steel AISI 301 (1.4310) connects the spindle body of the bob to the magnetic coupling.

The bob is intended for use with Disposable Measuring Cup D18 or Measuring Cup C-CC18. **Note:** B-CC12/DG18 has similar dimensions as B-CC18, but **different identification and spindle constants** stored on the Toolmaster™ chip.

The cup consists of blank aluminum (Al 99.7/F13). It requires a holder, which is made of hard anodized aluminum.

Use the system with PTD 80, PTD 175, or mount the system on the/iscoQC with the DIN adapter.

- Option: Cover DIN Spindles – included in standard supply of PTD 175

ViscoQC Model	Sample volume mL	SMC <sup>a</sup>	SRC <sup>b</sup>	YMC <sup>c</sup>	Minimum viscosity <sup>d</sup>	Maximum viscosity <sup>e</sup>
					Pa·s	Pa·s
L	11.8	43.282	0.3380	---	@ 60 rpm: 0.07	100
R	11.8	43.282	0.3380	---	@100 rpm: 0.44	100
H	11.8	43.282	0.3380	---	@100 rpm: 3.5	100

a. Spindle Multiplier Constant

b. Shear Rate Constant

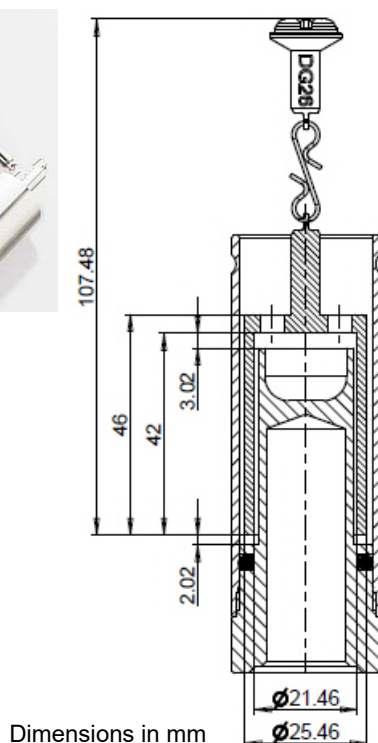
c. Yield Multiplier Constant – for yield stress determination with vane spindles and V-Curve

d. Specified speed is the maximum standard speed of the specific ViscoQC model.

e. Maximum viscosity limited to 100 Pa·s to ensure correct filling.

- The default SCF (Spindle Correction Factor) is 1.
- Calculation of shear rate: Shear rate [1/s] = SRC · Speed [rpm]
- Viscosity limits calculated for a torque range of 10 % to 100 % unless overruled by other limitations.

**TIP:** Sample handling of high-viscosity liquids requires special precautions to avoid trapped bubbles. You may have to prewarm the sample for filling.

**Measuring System DG26**


Measuring system consisting of

- 1 bob B-DG26 and
- 1 cup C-DG26. For measurement according to DIN 54453.

The hollow measuring bob is made of stainless steel AISI 316L (1.4404 / 1.4545). Equipped with Toolmaster™ and magnetic coupling. A hook made of stainless steel AISI 301 (1.4310) connects the spindle body of the bob to the magnetic coupling.

The bob is intended for use with Measuring Cup C-DG26. The cup consists of 3 parts:

- 1 wall made of anodized aluminum 3.2315 (6082)
- 1 bottom plug plus inner cylinder made of anodized aluminum 3.2315 (6082)
- 1 O-ring, seals the gap between wall and bottom

**NOTE:** Click the Mat. No. of the O-ring to learn about the applicable temperature range and alternatives!

Use the system with PTD 80, PTD 175, or mount the system on the ViscoQC with the DIN adapter.

- Option: Cover DIN Spindles – included in standard supply of PTD 175
- **Recommended:** Syringes 20 mL Luer (100 pcs), – for exact filling (essential for DG26)

ViscoQC Model	Sample volume mL	SMC <sup>a</sup>	SRC <sup>b</sup>	YMC <sup>c</sup>	Minimum viscosity <sup>d</sup> Pa·s	Maximum viscosity <sup>e</sup> Pa·s
L	7.5	0.8	1.2908	---	@ 60 rpm: 0.001	@ 0.3 rpm: 2.6
R	7.5	0.8	1.2908	---	@100 rpm: 0.010	10
H	7.5	0.8	1.2908	---	@100 rpm: 0.060	10

a. Spindle Multiplier Constant

b. Shear Rate Constant

c. Yield Multiplier Constant – for yield stress determination with vane spindles and V-Curve

d. Specified speed is the maximum standard speed of the specific ViscoQC model.

e. Maximum viscosity limited to 10 Pa·s to ensure correct filling.

- The default SCF (Spindle Correction Factor) is 1.
- Calculation of shear rate: Shear rate [1/s] = SRC · Speed [rpm]
- Viscosity limits calculated for a torque range of 10 % to 100 % unless overruled by other limitations.

**TIP:** Sample handling of high-viscosity liquids requires special precautions to avoid trapped bubbles. You may have to prewarm the sample for filling.