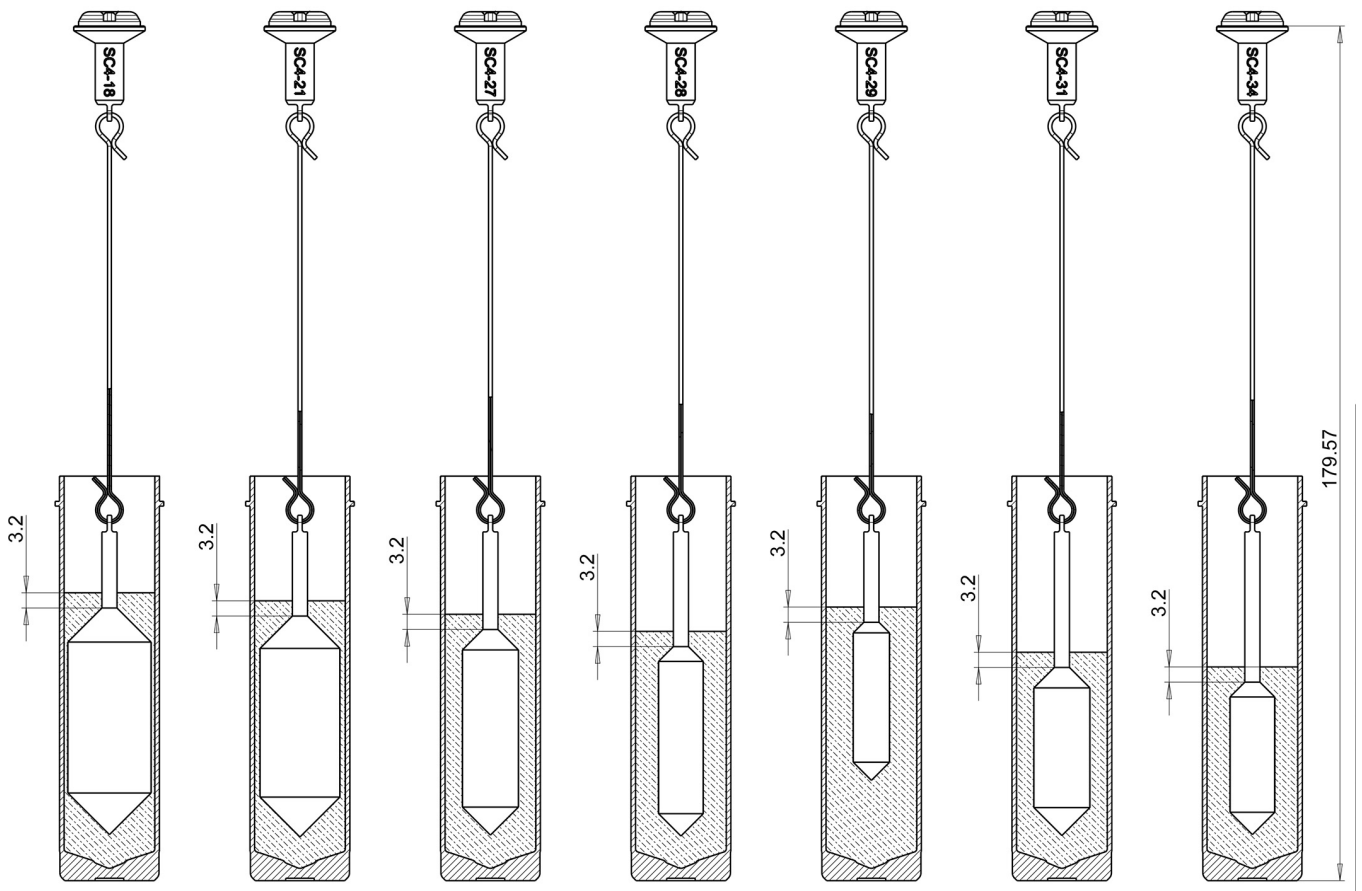


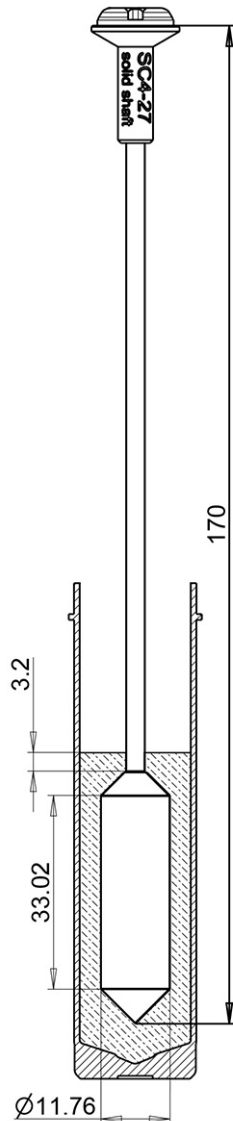
ETD 300 Measuring Systems and Accessories

Overview ETD 300 Measuring Systems / Spindles

Measuring system / spindle	Sample volume	Hook	1-Part solid shaft	2-Part solid shaft	Disposable
SC4-18	7.0 mL	B-SC4-18,	not applicable	not applicable	not applicable
SC4-21	7.0 mL	B-SC4-21	not applicable	not applicable	not applicable
SC4-27	10.5 mL	B-SC4-27	Mat. No. 261100 , p. 117	Mat. No. 262203 , p. 124	Mat. No. 261428 , p. 123 (spindle mount) Mat. No. 261431 , p. 123 (spindle)
SC4-28	11.0 mL	B-SC4-28	Mat. No. 261102 , p. 118	Mat. No. 262199 , p. 125	not applicable
SC4-29	13.5 mL	B-SC4-29	Mat. No. 261101 , p. 119	Mat. No. 262200 , p. 126	not applicable
SC4-31	9.0 mL	B-SC4-31	Mat. No. 261103 , p. 120	Mat. No. 262202 , p. 127	not applicable
SC4-34	9.0 mL	B-SC4-34	Mat. No. 261104 , p. 121	Mat. No. 262201 , p. 128	not applicable
HT-DIN-81	6.5 mL	HT-DIN-81	not applicable	not applicable	not applicable
Cup stainless steel		applicable	applicable	applicable	not recommended
Cup disposable		applicable	applicable	applicable	applicable

SC4-xx spindles with 85 mm wire hook for ETD



261100 Measuring Bob ETD SC4-27 solid 1 part


Dimensions in mm

Measuring bob for measurement with ETD 300

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

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 10.5 mL

Gap: 3.6 mm

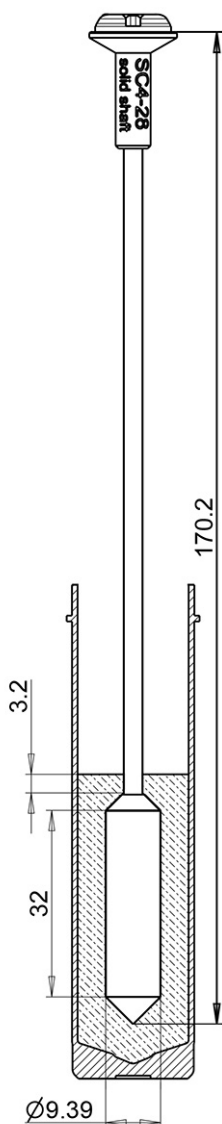
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 25

The default SCF (Spindle Correction Factor) is 1.

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

261102 Measuring Bob ETD SC4-28 solid 1 part


Dimensions in mm

Measuring bob for measurement with ETD 300

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

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 11 mL

Gap: 4.8 mm

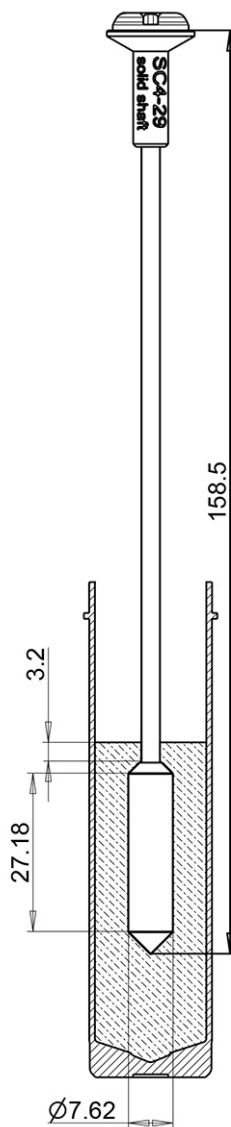
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 50

The default SCF (Spindle Correction Factor) is 1.

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

261101 Measuring Bob ETD SC4-29 solid 1 part


Dimensions in mm

Measuring bob for measurement with ETD 300.

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

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 13.5 mL

Gap: 5.7 mm

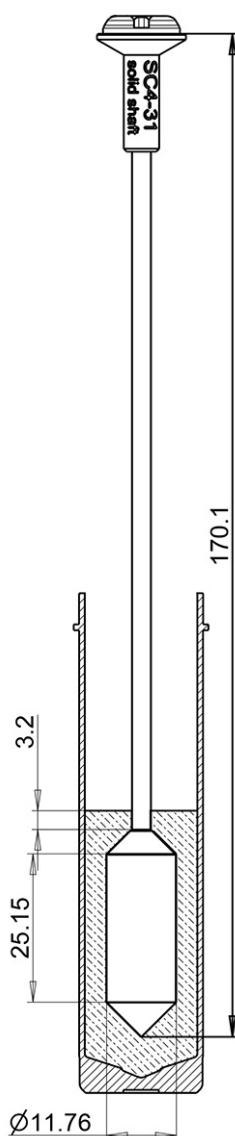
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 100

The default SCF (Spindle Correction Factor) is 1.

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

261103 Measuring Bob ETD SC4-31 solid 1 part


Dimensions in mm

Measuring bob for measurement with ETD 300

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

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 9 mL

Gap: 3.6 mm

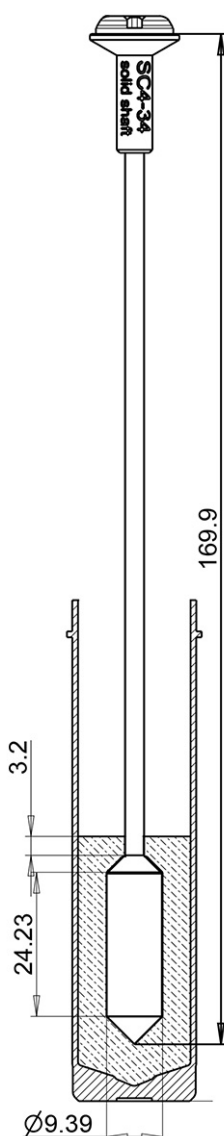
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 32

The default SCF (Spindle Correction Factor) is 1.

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

261104 Measuring Bob ETD SC4-34 solid 1 part


Dimensions in mm

Measuring bob for measurement with ETD 300

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

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 9.5 mL

Gap: 4.8 mm

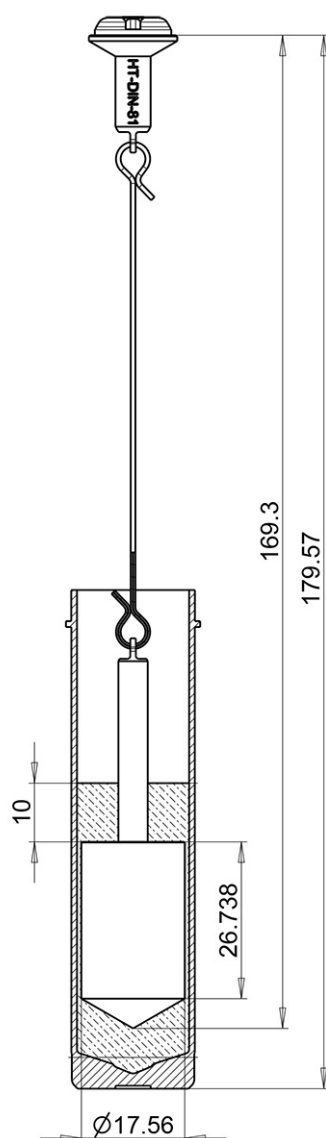
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 64

The default SCF (Spindle Correction Factor) is 1.

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

261763 Measuring Bob ETD HT-DIN-81


Dimensions in mm

Measuring bob for measurement with ETD 300

The measuring bob is made of stainless steel AISI 316L (1.4404). Equipped with Toolmaster™ and magnetic coupling (stainless steel 1.4545). 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 ETD 300 measuring cups.

Required sample quantity with ETD 300: 6.5 mL

Gap: 0.74 mm

Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

SMC (Spindle Multiplier Constant)	3.65
Shear rate (s^{-1})	1.2908 (Shear Rate Constant) · N
Model	
ViscoQC 100 – L	3.4 to 10K
ViscoQC 300 – L	1.0 to 10K
ViscoQC 100 – R	36.5 to 10K
ViscoQC 300 – R	14.6 to 10K
ViscoQC 100 – H	292.0 to 10K
ViscoQC 300 – H	116.8 to 10K

$K = 1$ thousand, viscosity units: mPa·s, $N = RPM$,

Example shear rate calculation: $1.2908 (SRC) \cdot 10 rpm = 12.9 s^{-1}$

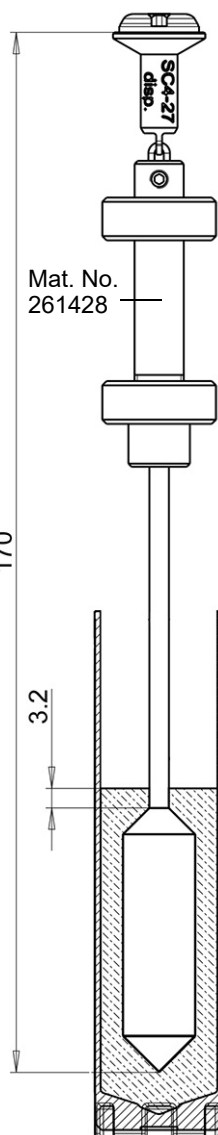
The default SCF (Spindle Correction Factor) is 1.

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

261428 Spindle Mount ETD 300


Spindle mount with magnetic coupling and clamp for connecting disposable spindle SC4-27 to ViscoQC.

For use with ETD 300.

261431 Disposable Measuring Spindle SC4-27 (100 pcs.)


Disposable measuring spindle SC4-27 for use with ETD 300, 1 package of 100 pcs.

Made of aluminum EN AW-6082 (3.2315) Al 99.5.

Requires Spindle Mount ETD 300 for connection to ViscoQC.

The spindle is intended for use with disposable ETD 300 measuring cups.

Required sample quantity with ETD 300: 10.5 mL

Gap: 3.6 mm

Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

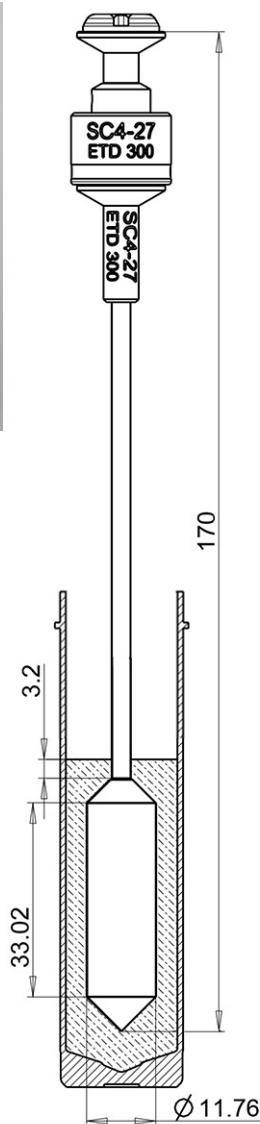
For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 25

The default SCF (Spindle Correction Factor) is 1.

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

Dimensions in mm

262203 Measuring Bob ETD SC4-27 solid 2 parts


Dimensions in mm

Measuring bob for measurement with ETD 300

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

A solid shaft connects the spindle body of the bob to a magnetic coupling without Toolmaster™. An adapter with another magnetic coupling contains the Toolmaster™ and serves to connect the bob to ViscoQC. This allows to preheat the bob without damaging the Toolmaster™.

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 10.5 mL

Gap: 3.6 mm

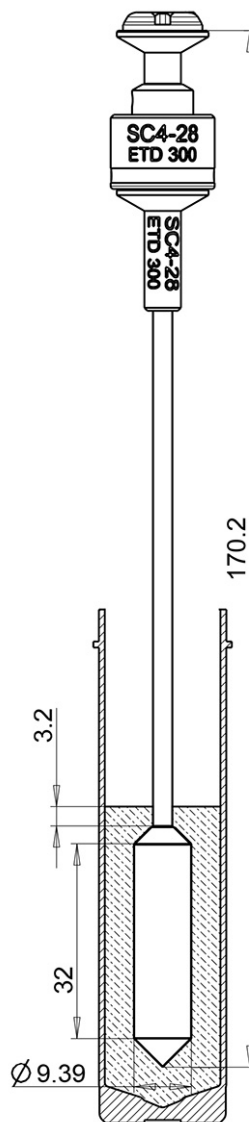
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 25

The default SCF (Spindle Correction Factor) is 1.

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

262199 Measuring Bob ETD SC4-28 solid 2 parts


Dimensions in mm

Measuring bob for measurement with ETD 300

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

A solid shaft connects the spindle body of the bob to a magnetic coupling without Toolmaster™. An adapter with another magnetic coupling contains the Toolmaster™ and serves to connect the bob to ViscoQC. This allows to preheat the bob without damaging the Toolmaster™.

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 11 mL

Gap: 4.8 mm

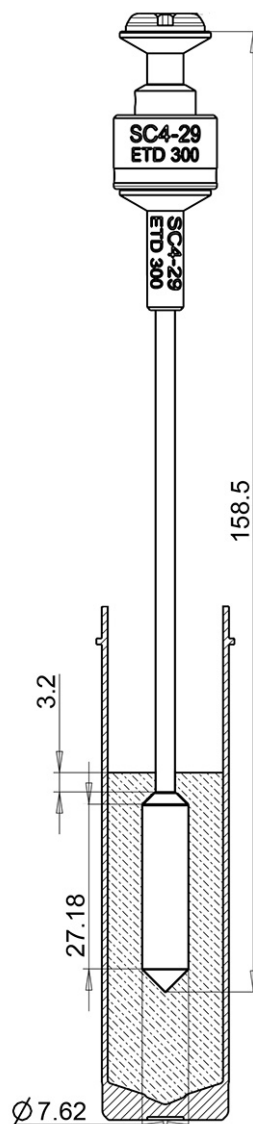
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 50

The default SCF (Spindle Correction Factor) is 1.

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

262200 Measuring Bob ETD SC4-29 solid 2 parts


Dimensions in mm

Measuring bob for measurement with ETD 300

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

A solid shaft connects the spindle body of the bob to a magnetic coupling without Toolmaster™. An adapter with another magnetic coupling contains the Toolmaster™ and serves to connect the bob to ViscoQC. This allows to preheat the bob without damaging the Toolmaster™.

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 13.5 mL

Gap: 5.7 mm

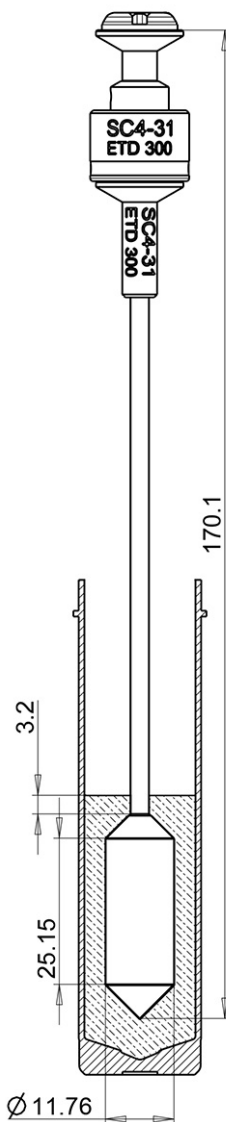
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 100

The default SCF (Spindle Correction Factor) is 1.

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

262202 Measuring Bob ETD SC4-31 solid 2 parts


Dimensions in mm

Measuring bob for measurement with ETD 300

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

A solid shaft connects the spindle body of the bob to a magnetic coupling without Toolmaster™. An adapter with another magnetic coupling contains the Toolmaster™ and serves to connect the bob to ViscoQC. This allows to preheat the bob without damaging the Toolmaster™.

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 9 mL

Gap: 3.6 mm

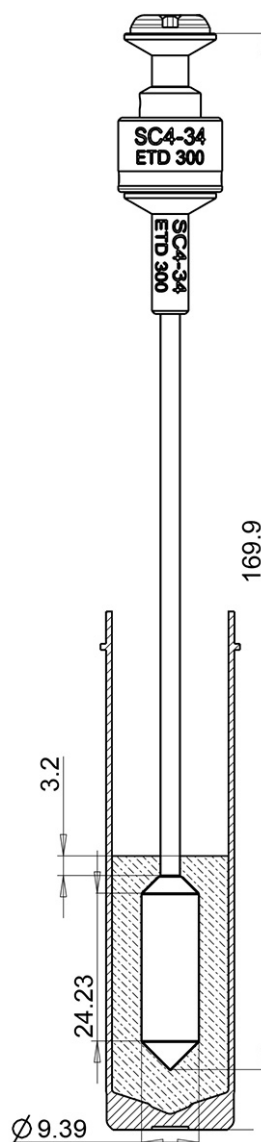
Maximum size of particles in sample:
< 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 32

The default SCF (Spindle Correction Factor) is 1.

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

262201 Measuring Bob ETD SC4-34 solid 2 parts


Dimensions in mm

Measuring bob for measurement with ETD 300

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

A solid shaft connects the spindle body of the bob to a magnetic coupling without Toolmaster™. An adapter with another magnetic coupling contains the Toolmaster™ and serves to connect the bob to ViscoQC. This allows to preheat the bob without damaging the Toolmaster™.

The bob is intended for use with ETD 300 measuring cups.

Required sample quantity with ETD 300: 9.5 mL

Gap: 4.8 mm

 Maximum size of particles in sample:
 < 0.1 mm (1/10 of the gap size)

For viscosity measuring ranges and shear rate constant refer to: Measuring ranges of SC4-xx spindles, p. 77.

SMC (Spindle Multiplier Constant): 64

The default SCF (Spindle Correction Factor) is 1.

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