

# Thermo Scientific HAAKE Viscotester E, D and C Viscometer

## Perform reliable measurements

Confidently measure viscosity for quality control and meet recognized standards using the Thermo Scientific™ HAAKE™ Viscotester™ E, D and C Rotational Viscometers. The rotational viscometer comes in a ready to go package consisting of a basic instrument with stand and a set of spindles with a storage rack – all in a carrying case with multilingual documentation and 2 years warranty.

## Measuring principle

These rotational viscometers measure the resistance of a test substance against a preset speed. The resulting torque or resistance measures the viscosity of the fluid. The higher the torque, the higher the viscosity. Due to the type of standardized geometries, the shear rates generated can only be determined precisely for Newtonian substances.

## Compatibility

The basic ISO 2555 standard describes the design and the characteristic measuring technique of a viscosity measuring instrument (torque, speed, rotor geometry). If rotational viscometers meet these requirements, results comply.

## Standards

The HAAKE Viscotester E, D and C viscometer meet standards such as:

- BS: 5350; ISO: 2555, 1652
- ASTM D: 115, 789, 1076, 1084, 1417, 1439, 1824, 2196, 2364, 2556, 3716



The HAAKE Viscotesters E, D and C are supplied as a complete measuring unit in a carrying case.



HAAKE Viscotester C, D and E

## Common features

- Digital display of viscosity, % torque, speed, spindle, upper viscosity limit, temperature (optional), in selectable units
- Integrated automatic diagnostic functionality
- Visual and acoustic signals at critical measuring conditions
- Easy viscosity and temperature (optional) calibrations
- 10 user interface languages
- Delivery in carrying case consisting of basic instrument, stand, set of spindles with storage rack and multilingual documentation

## HAAKE Viscotester E • For automatic flow curve measurements with full PC control



### Additional features:

- 6-line LCD display with 12 keys
- Display of sample temperature, shear rate and shear stress for coaxial spindles, routine parameters, etc.
- Internal memory for 9 advanced measuring routines
- Routine programming functions
- USB for software control
- Rotational speeds: 54 between 0.01 rpm and 200 rpm

### Viscosity range:

- R-Version: 100 mPas – 40.000.000 mPas
- L-Version: 15 mPas – 6.000.000 mPas

### Optional:

- One hand quick fit coupling for spindles
- HAAKE RheoWin measuring and evaluation software

Order no.	Description
399-0500	R-version: Base unit with stand, spindles R2 to R7, rack, spindle guard, Pt 100 and carrying case
399-0510	R-version with quick fit coupling option
399-0501	L-version: Base unit with stand, spindles L1 to L4, rack, spindle guard, Pt 100 and carrying case
399-0511	L-version: with quick fit coupling option

## HAAKE Viscotester D • For routine viscosity measurements with data transfer



### Additional features:

- 6-line LCD display with 6 keys
- Internal memory for 9 basic measuring routines
- USB interface for data transfer to PC
- Rotational speeds: 21 between 0.1 rpm and 200 rpm

### Viscosity range:

- R-Version: 100 mPas – 13.000.000 mPas
- L-Version: 15 mPas – 2.000.000 mPas

### Optional:

- Temperature sensor Pt 100
- Display of sample temperature
- One hand quick fit coupling for spindles
- HAAKE RheoWin data evaluation software

Order no.	Description
399-0400	R-Version: Base unit with stand, spindles R2 to R7, rack, spindle guard and carrying case
399-0410	R-Version: with quick fit coupling option
399-0401	L-Version: Base unit with stand, spindles L1 to L4, rack, spindle guard and carrying case
399-0411	L-Version: with quick fit coupling option
799-3755	Temperature sensor Pt 100

## HAAKE Viscotester C • For easy, fast and accurate manual viscosity measurements



### Additional features:

- Simple and intuitive operation
- 4-line LCD display with 6 keys
- Rotational speeds:
- 21 between 0.1 rpm and 200 rpm

### Viscosity range:

- R-Version: 100 mPas – 13.000.000 mPas
- L-Version: 15 mPas – 2.000.000 mPas

Order no.	Description
399-0300	R-version: Base unit with stand, spindles R2 to R7, rack, spindle guard and carrying case
399-0301	L-version: Base unit with stand, spindles L1 to L4, rack and spindle guard and carrying case

## Optional accessories



### Low viscosity adapter including cylindrical spindle and carrying case:

Allows reproducible and accurate measurements of the viscosity from 1.0\* mPas for L-models and 5 mPas for R-models

\* Taylor vortices may result in additional errors

#### Technical data:

- Sample volume: 16 ml – 18 ml
- Flow jacket for temperature control:  
-10 °C – 100 °C
- Pt 100 (optional)

### Small sample adapter including carrying case:

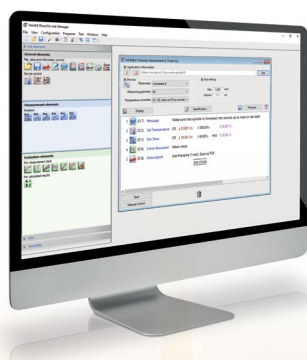
For viscosity measurements of small volumes

#### Technical data:

- Sample volume: 8 ml –13 ml
- Flow jacket for temperature control:  
-10 °C – 100 °C
- Pt 100 (optional)

Order no.	Description
222-1379	Low viscosity adapter including cylindrical spindle and carrying case
799-3756	Pt 100 optional for low viscosity adapter

Order no.	Description
222-1378	Small sample adapter including carrying case
222-1397	Set of spindles for L-version for small sample adapter
222-1387	Set of spindles R-version for small sample adapter
799-3757	Pt 100 optional for small sample adapter



### Software for beginners and advanced users

Customizable software Thermo Scientific™ HAAKE™ RheoWin™ Software for HAAKE Viscotester E & D Viscometer. Easy handling of:

- Job Manager, Data Manager, User Manager for fully automated measuring and analysis routines (model E only)
- Data Manager for data analysis and creating reports
- User Manager for user access control

Order no.	Description
098-5060	HAAKE RheoWin Software for HAAKE Viscotester E measuring and evaluation software
098-5059	HAAKE RheoWin Software for HAAKE Viscotester D software for data collection and evaluation
098-5039	HAAKE RheoWin Software module FDA 21 CFR part 11



#### Technical specifications

Viscosity range	Depending on version (L or R)
Accuracy	+/- 1 % FSD
Reproducibility	0.2 %
Supplied at	100-240 V/50-60 Hz



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