

## ViscoQC



Rotational viscometers

## Simplicity in perfection



UNPACK

### Ready to use out of the box:

- Fastest start up in less than 2 minutes

### Ensures correct alignment:

- Built-in digital leveling guarantees the highest measurement repeatability



MEASURE

### Exchange spindles easily:

- Built-in magnetic coupling saves you 15 seconds per test

### Detects spindle and guard automatically:

- Toolmaster™ prevents spindle selection errors and ensures fully traceable results
- TruGuard™ documents whether a guard is attached or not

### Searches for speed automatically:

- TruMode™ finds the best spindle/speed combination to measure new formulations

### Get the best Peltier temperature control:

- Temperature stability of  $\pm 0.1$  °C from -45 °C to +175 °C
- T-Ready™ tells you when your sample has reached the required temperature



UPGRADE

### V-Curve software (on ViscoQC 300):

- For programmability, graph, analysis, and additional methods (yield, low temperature)

### V-Comply software (on ViscoQC 300):

- Full compliance to 21 CFR Part 11 (audit trail, electronic signature, etc.)



MAINTAIN

### The highest quality is our promise:

- With 3-year warranty on the instrument and accessories

### Lowest downtime:

- Optional on-site service
- Automatic bearing check by TruSine™ avoids sudden downtime



“  
We are confident in the high quality of our instruments. That's why we provide **full warranty for three years.**  
”

All new instruments\* include repair for 3 years. You avoid unforeseen costs and can always rely on your instrument. Alongside the warranty we offer a wide range of additional services and maintenance options.

\*Due to the technology they use, some instruments require maintenance according to a maintenance schedule. Complying with the maintenance schedule is a prerequisite for the 3-year warranty.

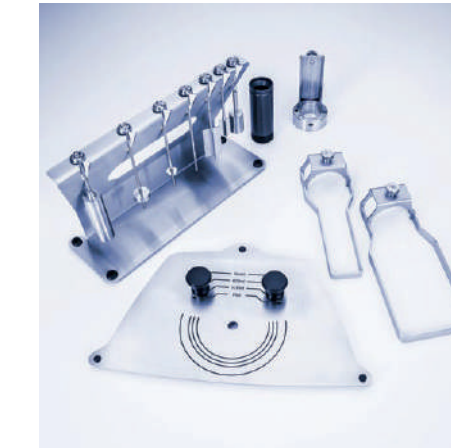


Viscosity test type	ViscoQC 100			ViscoQC 300		
	L	R	H	L	R	H
Viscosity range [mPa·s] (depends on the measuring system)	1* to 6M	6.4** to 40M	51.2*** to 320M	1* to 6M	3** to 40M	24*** to 320M
Speed [rpm]	0.1 to 200 25 increments: 19 standard speeds plus 6 freely selectable speeds			0.01 to 250 Speed list with 18 standard speeds Freely selectable speeds within the speed range		
Max. spring torque [mNm]	0.0673	0.7187	5.7496	0.0673	0.7187	5.7496
Accuracy	±1.0 % full scale range					
Repeatability	±0.2 %					
Display	3.5" color LCD			7" color touchscreen		
Data storage	Non-storage Direct print/export			Data memory for up to 999 measurements Print/export from data memory		
Users, user groups	None			Customizable		

\* With optional system UL26, with L1 spindle 15 mPa·s  
\*\* With optional system UL26, with RH1 spindle 100 mPa·s  
\*\*\* With optional system UL26, with RH1 spindle 800 mPa·s

ViscoQC is a registered trademark of Anton Paar (EM 01062030).  
M = 1 million

## Accessories — for outstanding results



### Configure as you need it

Whether your sample flows easily or is sticky, we have the solution for you:

- 500 mL sample: L/RH spindles (ISO 2555), gel time kit, vane spindles, T-bar
- <20 mL sample: Concentric cylinders (CC, ISO 3219), double-gap (DG, DIN 54453), ultra-low viscosity adapter (UL), small sample adapter (SC4), disposable cup D18/D22, ASTM spindles (4B2, L1D22)

Additionally, you can equip your ViscoQC with: spindle guard (L/R), optional spindle rack, or flexible cup holder.



### Always at the correct temperature

Our unique air-cooled Peltier temperature devices with integrated T-Ready™ ensure that your sample is always at the set temperature. Save time and money as they do not require any cooling liquids.

- PTD 80 for ViscoQC 100/300: +15 °C to +80 °C, for measuring systems CC, DG, SC4
- PTD 175 for ViscoQC 300: -45 °C to +175 °C, additionally for UL, 4B2, L1D22; fulfills ASTM D2983/D8210, ASTM D5133/D7110, AASHTO T316/ASTM D4402\*

\*up to +175 °C maximum



### Highest flexibility at your fingertips

ViscoQC 300 is your future-proof rotational viscometer which can grow with your needs via optionally upgradeable software modules in stand-alone mode (V-Curve and/or V-Comply) – all without any external PC. V-Comply is delivered with a ready-to-use 6Q qualification document to save you time and costs by qualifying the instrument within one day. A PC data collection software, V-Collect, is additionally included free of charge in every ViscoQC delivery.



### Solutions for your special challenges

For the most convenient operation ViscoQC 100/300 can be equipped with Heli-Plus. Your measurements can be fully standardized as all measuring positions are defined digitally on the user interface. By using a T-bar spindle, paste-like materials can be easily measured.

The determination of the gel time/pot life of thermosetting compounds (such as resin, glue) is possible with ViscoQC 100/300 using a glass rod.

# Your application – our solution

Which instrument to select depends on the viscosity of your sample, the required speed range, and test method.

Depending on the viscosity of your sample, you may either choose the L-model for low-viscosity samples, R-model for medium-viscosity (regular) samples, or H-model for high-viscosity samples.



**CHEMICALS AND  
PETROLEUM PRODUCTS**



**FOOD & BEVERAGES**



**COSMETICS &  
PHARMACEUTICALS**



L-MODEL - LOW VISCOSITY	<p>Adhesives (solvent base)   Chemicals Hot waxes   Hydraulic fluids Inks   Latex Oils   Paints and coatings Isocyanate   Polymer solutions Rubber solutions   Solvents</p>	<p>Dairy products Fruit concentrate Juice Syrup Smoothies Gum arabic</p>	<p>Cosmetics Mouthwash Pharmaceuticals Shower liquids Hand disinfection fluid Methylcellulose</p>
R-MODEL - MEDIUM VISCOSITY	<p>Adhesives (hot melt) Asphalt   Ceramic slurries Engine oil   Epoxy resins Gums   Inks (screen printing) Organisols   Paints Paper coatings &amp; pulp Plastisols Surface coatings   Varnish</p>	<p>Chocolate   Dairy products Yogurt   Dressings Food products Pudding   Starches Sauces   Ketchup</p>	<p>Creams   Detergents Lotions   Shampoo Toothpaste Liquid make-up Eye make-up remover Nail polish Cough suppressant</p>
H-MODEL - HIGH VISCOSITY	<p>Adhesives (highly viscous) Asphalt   Caulking compounds Epoxies Inks (ballpoint, offset, lithographic) Pastes   Putty (wall) Roofing compounds   Sealants</p>	<p>Chocolate Mayonnaise Molasses Peanut butter Jam</p>	<p>Gels Ointments</p>
COMPLIANCE WITH	<p>ISO 2555 ASTM D1084 ASTM D1824 ASTM D2983/D8210 ASTM D4402 (up to +175 °C) ASTM D5133/D7110  and more, see website</p>	<p>IOCCC 2000 ICA</p>	<p>Ph. Eur. 2.2.10 USP 912 ChP 0633 IP 2.4.28 JP XVII 2.53 (2.1.2)  and more, see website</p>

