TORONTECH

VISCOMETER SPINDLES

Precision-Engineered Spindles for Accurate Viscosity Measurement

The performance and accuracy of a viscometer depend significantly on the type of spindle used. Torontech offers a complete range of viscometer spindles compatible with the ToronVisc™ series, including LV, RV, HA, HB, CAP, and SC4 spindles. These spindles cover a broad viscosity range from low-viscosity fluids like water and oils to high-viscosity substances such as adhesives, creams, and resins.

Whether you're measuring Newtonian or non-Newtonian fluids, in industrial or lab environments, selecting the correct spindle ensures maximum accuracy, repeatability, and compliance with international testing standards.

APPLICATIONS

LV Spindles

LVR Spindles

SC4 Spindles

CAP Spindles

LV and LVR Spindles

Ideal for low to medium viscosity fluids such as oils, solvents, and milk.

Spindle No	Range (mPa.s / cP)	Spindle No	Range (mPa.s / cP)
LV1	15 – 20K	LVR1	40 – 800K
LV2	50 – 100K	LVR2	200 – 4M
LV3	200 – 400K	LVR3	800 – 16M
LV4	1K – 2M	LVR4	4K – 80M

RV, HA, and HB Spindles

Designed for higher viscosity materials like paints, gels, and creams.

Spindle No	RV Range (cP)	HA Range (cP)	HB Range (cP)
RV1	100 – 20K	200 – 40K	800 – 160K
RV2	100 – 80K	200 – 160K	800 – 640K
RV3	100 – 200K	200 – 400K	800 – 1.6M
RV4	200 – 400K	400 – 800K	1.6K – 3.2M
RV5	400 – 800K	800K – 1.6M	3.2K – 6.4M

Spindle No	RV Range (cP)	HA Range (cP)	HB Range (cP)
RV6	1K – 2M	2K – 4M	8K – 16M
RV7	4K – 8M	8K – 16M	32K – 64M

SC4 Spindles

Used for small volume samples and precise control under narrow shear rates, suitable for QC labs and research.

Spindle No	LV Range (cP)	RV Range (cP)
21	5 – 5K	50 – 50K
27	25 – 250K	250 – 2.5M
28	50 – 500K	500 – 5M
29	100 – 1M	1K – 10M

CAP Spindles

For small-sample and high-shear testing, ideal for coatings, cosmetics, and ink industries.

Model	Speed (RPM)	CAP1 Range (cP)	CAP2	CAP3	CAP4	CAP5	CAP6	CAP10
1000	750	25 – 250	50 – 500	100 – 1K	200 – 2K	400 – 4K	1K – 10K	N/A
1000	900	20 – 200	40 – 400	80 – 800	100 – 1.6K	300 – 3.3K	800 – 8.3K	100 – 1K

Model	Speed (RPM)	CAP1 Range (cP)	CAP2	CAP3	CAP4	CAP5	CAP6	CAP10
1000	400	37.5 – 460	75 – 93	150 – 187	300 – 3750	600 – 7.7K	1.5K – 18.7K	100 – 100K
2000	1000	20 – 37.5K	40 – 75K	80 – 150K	100 – 300K	300 – 600K	800 – 15M	100 – 0.1M

Note: All values in cP (centipoise) or mPa·s. 1 cP = 1 mPa·s.

Why Choose Genuine ToronVisc™ Spindles?

- Engineered for precise compatibility with all ToronVisc™ viscometers
- Manufactured to tight tolerances for high repeatability
- Support broad viscosity measurement ranges from low to ultra-high
- Easy to install, clean, and replace

Need Help Choosing the Right Spindle?
Our application experts are ready to guide you in selecting the best spindle for your viscosity range, fluid type, and measurement method.

Contact us for expert advice or request a quote.

TORONTECH.com

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