

Small Sample Test Assembly (SSA)

Conventional viscosity testing usually requires hundreds of milliliters of sample. However, lab researchers often only have limited sample volume available, especially lab-synthesized small trial batches or high-value specialty materials produced in small quantities.

For such application scenarios, Biuged offers the Small Sample Test Assembly (abbreviated SSA). It only requires approximately 10 mL of sample. Combined with dedicated spindles, the assembly enables complete rheological property analysis of specimens.

Features

- ◆ Sealed coaxial cylinder design for greatly improved measurement accuracy

Traditional testing adopts disc spindles paired with open sample containers, which deliver unstable boundary conditions and inaccurate shear rate readings. In contrast, the SSA rotor and sample cup form a precision coaxial cylinder with fixed clearance, allowing precise and controllable shear rates. It provides far superior test repeatability for non-Newtonian fluids (resins, adhesives, coatings) compared with standard spindles, ideal for precise rheology measurement in R&D laboratories.

- ◆ Independent detachable sample cup; no viscometer recalibration required between sample changes.
- ◆ Standard Accessories: SC4-21, SC4-27, SC4-28, SC4-29 rotor, one of each.
- ◆ Optional Accessories: SC4-18 rotor, SC4-25 rotor, SC4-31 rotor, SC4-34 rotor

Ordering Information

BGD 168/Z-011----Small Sample Test Assembly for Thermostat (for BGD 165& 168)

BGD 168/Z-012----Small Sample Test Assembly (for BGD 165& 168)



Corresponding Measuring Ranges of SC4 Spindles

Rotor	165L	165M	165H	168L	168M	168H
SC4-18	1.5-30K	15-320K	125-2.5M	1.2-30K	12-320K	100-2.5M
SC4-21	2.3-46K	50-500K	200-4M	1.8-46K	20-500K	160-4M
SC4-25	240-4.8M	2.5K-51M	20K-400M	192-4.8M	2K-51M	16K-400M
SC4-27	11.2-234K	125-2.5M	1K-20M	9-234K	100-2.5M	800-20M
SC4-28	22.5-468K	250-5M	2K-40M	18-468K	200-5M	1.6K-40M
SC4-29	46.2-937K	500-10M	4K-80M	37-937K	400-10M	3.2K-80M
SC4-31	15-300K	160-3.2M	1.2K-25.6M	12-300K	128-3.2M	1K-25.6M
SC4-34	30-600K	320-6.4M	2.5K-51.2M	24-600K	256-6.4M	2K-51.2M