

Enhanced UL Adapter™

ideal for low viscosity materials

Reduces measuring range

to as low as 1 cP, depending on viscometer used

Simple attachment

to a standard AMETEK Brookfield Viscometer or DV3T Rheometer

Small sample size:

16 mL

Cylindrical geometry

provides defined shear rates for detailed product analysis

Removable cap

of low density polyethylene can be considered disposable for one-time use if required

Stainless steel parts

are easily cleaned



What's Included?

Locating Channel Assembly
Spindle (304 s/s) (p46)
with universal coupling nut
Collar assembly with thumbwheel
Water Jacket
Chamber Tube
Tube End Caps (package of 6)

Optional Accessories

Available with EZ-Lock spindle coupling (p50)



Closed Tube and Spindle
made from 316 s/s

The AMETEK Brookfield Enhanced UL Adapter is used with any standard AMETEK Brookfield Viscometer and Rheometer to make accurate and reproducible measurements on low viscosity materials. Newtonian and non-Newtonian materials can be measured. It is most commonly used with the LV series instrument (at 60 rpm, these models have a full scale range of 1-10 cP with the UL Adapter). The UL Adapter consists of a precision cylindrical spindle rotating inside an accurately machined tube. Its rheologically correct cylindrical geometry provides extremely accurate viscosity measurements and shear rate determinations.

The tube has a removable end cap which allows the open ended tube to be used in a beaker or tank. With the cap in place, the closed tube can be immersed in a temperature bath or used with the ULA-40Y water jacket for precise temperature control. Working temperature range is from 1°C to 65°C. Use Closed Tubes for higher temperature requirements. The open tube is easier to clean.

Quick & Easy Design Saves Time



Quick & easy attachment of spindle:
Longer coupling nut for better grip and twist action to connect spindle to viscometer.
Redesigned bracket for attaching ULA assembly to viscometer. Provides more clearance for finger grip on coupling nut.



Quick & easy removal of chamber:
Simply loosen thumbwheel, chamber slides down and out.
Water jacket sleeve remains in place attached to viscometer while chamber and/or spindle only are removed. Saves set up time for the operator.



Detail of UL Adapter: 1. Locating Channel Assembly 2. Water Jacket 3. Chamber Tube 4. Collar with thumbwheel 5. Tube End Cap 6. Spindle with universal coupling

EZ-Lock Option

Enhanced UL Adapter is available with special EZ-Lock spindle coupling for use on standard AMETEK Brookfield Viscometers/ Rheometers already equipped with the EZ-Lock feature. (p50)

Unique ULA Assembly Design Provides Multiple Benefits:

- Sturdy collar attaches to locating channel assembly which is connected to viscometer pivot cup.
- Sample chamber is held firmly in place by the collar which provides proper alignment for the spindle rotation within the chamber.
- Universal coupling nut on spindle ensures firm connection with viscometer and automatic self-centering of spindle in chamber during rotation.
- Direct immersion of chamber in temperature bath is quick and easy.
- Water jacket grips slide over collar and operator manually aligns the collar/jacket assembly to allow easy insertion of chamber containing sample to be tested.

UL Adapter Ranges cP(mPa•s)						
LVT, DVELV, DV1LV DV2TLV, DV3TLV	RVT, DVERV DV1RV	DV2TRV DV3TRV	HAT, DVEHA DV1HA	DV2THA DV3THA	HBT, DVEHB DV1HB	DV2THB DV3THB
1.0 - 2K	6.4 - 2K	3.0 - 2K	12.8 - 2K	6.0 - 2K	51.2 - 2K	24.0 - 2K

K = 1 thousand