

# 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 Brookfield Viscometer or DV-III Ultra 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



The Brookfield UL Adapter is used with any standard 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 -15°C to 100°C.

### Why replace your current UL Adapter?

The new design saves a significant amount of time on set up and tear down of equipment.

The new spindle with universal connector is easier to thread onto the viscometer.

The entire assembly can remain in place between tests with only the chamber being removed to prepare the next sample for testing.

### UL Adapter Ranges cP(mPa•s)

LVT, LVDV-E LVDV-I+, LVDV-II+P LVDV-IIIU	RVT RVDV-E RVDV-I+	RVDV-II+P RVDV-IIIU	HAT HADV-E HADV-I+	HADV-II+P HADV-IIIU	HBT HBDV-E HBDV-I+	HBDV-II+P HBDV-IIIU
1.0 - 2K	6.4 - 2K	3.0 - 2K	12.8 - 2K	6.0 - 2K	51.2 - 2K	24.0 - 2K

K = 1 thousand

## BROOKFIELD ACCESSORIES

# 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.

Permits rapid testing of multiple samples by swapping out chambers.

Choice of leaving spindle attached to viscometer or disconnecting spindle and removing it with chamber.

Water jacket sleeve remains in place attached to viscometer while chamber and/or spindle only are removed. Saves set up time for the operator.

## 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.



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

## What's Included?

Locating Channel Assembly

Spindle (304 s/s) (p40)  
with universal coupling nut

Collar assembly with thumbwheel

Water Jacket

Chamber Tube

Tube End Caps (package of 6)

## Optional Accessories

Closed Tube and Spindle  
made from 316 s/s