

# Small Sample Adapter

Viscosity by Brookfield  
The World's Most Accurate

## Features and Benefits



- Designed to provide an alternative for those customers having limited samples sizes.
- Cylindrical geometry provides calculable shear rates.
- Simple attachment to any standard Brookfield Viscometer or DV-III+ Rheometer
- Optional RTD Temperature Sensor embedded in Sample Chamber provides accurate monitoring of sample temperature during viscosity measurement.
- Complete with choice of 1 sample chamber and spindle, water jacket, attachment hardware and storage case.

## Disposable Chambers\*\*

- Also available with Disposable Chambers for use with "hard to clean" materials.

## Small Sample Adapter Viscosity Ranges cP(mPa•s)

MODEL	Spindle SC4-18 Sample Chamber* SC4-13R(P) Sample Volume 8mL Shear Rate (sec <sup>-1</sup> ) 1.32N	Spindle SC4-31 Sample Chamber* SC4-13R(P) Sample Volume 10mL Shear Rate (sec <sup>-1</sup> ) .34N	Spindle SC4-34 Sample Chamber* SC4-13R(P) Sample Volume 10mL Shear Rate (sec <sup>-1</sup> ) .28N	Spindle SC4-16 Sample Chamber* SC4-8R(P) Sample Volume 4.2mL Shear Rate (sec <sup>-1</sup> ) .29N	Spindle SC4-25 Sample Chamber* SC4-13R(P) Sample Volume 16mL Shear Rate (sec <sup>-1</sup> ) .22N	Spindle SC4-21 Sample Chamber* SC4-13R(P) Sample Volume 8mL Shear Rate (sec <sup>-1</sup> ) .92N	Spindle SC4-27 Sample Chamber* SC4-13R(P) Sample Volume 11mL Shear Rate (sec <sup>-1</sup> ) .34N	Spindle SC4-15 Sample Chamber* SC4-7R(P) Sample Volume 3.3mL Shear Rate (sec <sup>-1</sup> ) .48N	Spindle SC4-28 Sample Chamber* SC4-13R(P) Sample Volume 12mL Shear Rate (sec <sup>-1</sup> ) .28N	Spindle SC4-29 Sample Chamber* SC4-13R(P) Sample Volume 13mL Shear Rate (sec <sup>-1</sup> ) .25N	Spindle SC4-14 Sample Chamber* SC4-6R(P) Sample Volume 2mL Shear Rate (sec <sup>-1</sup> ) .40N
LV DV-III+	1.2-30K	12-300K	24-600K	48-1.2M	192-4.8M	N/A	N/A	N/A	N/A	N/A	N/A
LV DV-II+	1.5-30K	15-300K	30-600K	60-1.2M	240-4.8M	N/A	N/A	N/A	N/A	N/A	N/A
LV DV-I+	3-10K	30-100K	60-200K	120-400K	800-1.6M	N/A	N/A	N/A	N/A	N/A	N/A
LV DVE	3-10K	30-100K	60-200K	120-400K	800-1.6M	N/A	N/A	N/A	N/A	N/A	N/A
LVT	5-10K	50-100K	100-200K	200-400K	800-1.6M	N/A	N/A	N/A	N/A	N/A	N/A
RV DV-III+	N/A	N/A	N/A	N/A	N/A	20-500K	100-2.5M	200-5M	200-5M	400-10M	500-12.5M
RV DV-II+	N/A	N/A	N/A	N/A	N/A	25-500K	125-2.5M	250-5M	250-5M	500-10M	625-12.5M
RV DV-I+	N/A	N/A	N/A	N/A	N/A	50-170K	250-830K	500-1.7M	500-1.7M	1K-3.3M	1.25K-4.2M
RV DVE	N/A	N/A	N/A	N/A	N/A	50-170K	250-830K	500-1.7M	500-1.7M	1K-3.3M	1.25K-4.2M
RV T	N/A	N/A	N/A	N/A	N/A	50-100K	250-500K	500-1M	500-1M	1K-2M	1.25K-25M
HADV-III+	N/A	N/A	N/A	N/A	N/A	40-1M	200-5M	400-10M	400-10M	800-20M	1K-25M
HADV-II+	N/A	N/A	N/A	N/A	N/A	50-1M	250-5M	500-10M	500-10M	1K-20M	1.25K-25M
HADV-I+	N/A	N/A	N/A	N/A	N/A	100-300K	500-1.7M	1K-3.3M	1K-3.3M	2K-6.7M	2.5K-8.3M
HADVE	N/A	N/A	N/A	N/A	N/A	100-300K	500-1.7M	1K-3.3M	1K-3.3M	2K-6.7M	2.5K-8.3M
HAT	N/A	N/A	N/A	N/A	N/A	100-200K	500-1M	1K-2M	1K-2M	2K-4M	2.5K-5M
HBDV-III+	N/A	N/A	N/A	N/A	N/A	160-4M	800-20M	1.6K-40M	1.6K-40M	3.2K-80M	4K-100M
HBDV-II+	N/A	N/A	N/A	N/A	N/A	200-4M	1K-20M	2K-40M	2K-40M	4K-80M	5K-100M
HBDV-I+	N/A	N/A	N/A	N/A	N/A	400-1.3M	2K-6.7M	4K-13.3M	4K-13.3M	8K-26.7M	10K-33.3M
HB DVE	N/A	N/A	N/A	N/A	N/A	400-1.3M	2K-6.7M	4K-13.3M	4K-13.3M	8K-26.7M	10K-33.3M
HBT	N/A	N/A	N/A	N/A	N/A	400-800K	2K-4M	4K-8M	4K-8M	8K-16M	10K-20M

M = 1 million K = 1 thousand N = RPM e.g. Spindle SC4-18 1.32 x 10 (rpm) = 13.2 sec<sup>-1</sup> cP = Centipoise mPa•s = Millipascal/seconds N/A = Not Applicable

\* Examples  
 SC4-13R Sample Chamber  
 SC4-13RP Sample Chamber with RTD temperature probe  
 SC4-13RPPY Sample Chamber with RTD temperature probe and cable to viscometer/rheometer  
 SC4-13RD-100 Disposable Sample Chamber available in packages of 100

\*\* Disposable chamber available in 13R size and requires SC4-45YD water jacket

Tel: 800.628.8139 or 508.946.6200  
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## UL Adapter



## Features and Benefits

- Ideal for measuring low viscosity materials
- Designed to reduce measuring range to as low as 1 cP, dependant upon viscometer used.
- Small sample size: 16 ml
- Simple attachment to a standard Brookfield Viscometer or DV-III+ Rheometer
- Cylindrical geometry provides defined shear rates for detailed product analysis
- Complete with sample chamber, spindle, water jacket, attachment hardware and storage case.

## HELPFUL HINTS

1. *To immerse in larger containers:* Use without the end cap attached.
2. *Control product temperature:*  
Order a Brookfield TC Series Water Bath to use with the water jacket.

## UL Adapter Ranges cP(mPa•s)

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

K = 1 thousand

## DIN Adapter



## Features and Benefits

- Complies with DIN 53019 requirements for test geometry. DIN is the German equivalent to the U.S. ASTM Standards.
- Designed to provide an alternative for those customers having limited sample volume. Requires 16mL to 20 mL sample size.
- Cylindrical geometry provides defined shear rates.

## HELPFUL HINTS

1. *Use a Brookfield TC Series Water Bath to control sample temperatures.*



## DIN Adapter Ranges cP(mPa•s)

LVT	LVDV-E LVDV-I+	LVDV-II+ LVDV-III+	RVT RVDV-E RVDV-I+	RVDV-II+ RVDV-III+	HAT HADV-E HADV-I+	HADV-II+ HADV-III+	HBT HBDV-E HBDV-I+	HBDV-II+ HBDV-III+
1.9 - 37.9K	1.2 - 37.9K	1.0 - 50K	12.2 - 50K	5.0 - 50K	24.4 - 50K	10.0 - 50K	97.6 - 50K	40.0 - 50K

K = 1 thousand