PVS Rheometer

1' x 1' x 2' instrument for portable site-to-site mobility

Robust Motor
capable of speeds up to 1000 rpm

Quick and easy setup
in minutes

Safety Relief Valve
1000psi
(high pressure)

Avoids sample boil-off

Couette Geometry -
Outside Cylinder Rotates, "Bob" inside remains stationary, generating shear rates up to 1700 sec^{-1}

RTD on the inner cylinder
insures accurate sample temperature measurement

Test to industry standards

Vacuum to high pressure
measurements up to 1,000 psi

Hastelloy C cup and bobs
for operation in severe field environments

Low Shear Rate Viscosity (LSRV)
measurement to .02 sec^{-1}

Temperature conditions:
from -40°C to +200°C

PVS Rheometer Ranges

BOB/STATOR SAMPLE CUP	VISCOSITY RANGE cP (mPa•s)	SHEAR RATE (sec^{-1})	SAMPLE VOLUME (mL)	VAPOR VOLUME (mL)
PVS-B1-D-HC	1-3M	1.7N	23	90
PVS-B2-D-HC	20-36M	0.38N	53	90
PVS-B5-D-HC	5-9M	0.85N	40	90
PVS-TA5B5-D-HC	.5-1M	0.85N	150	90

HC = Hastelloy C M = 1 million N = RPM mL = Milliliter

	VISCOSITY RANGE* cP(mPa•s)		SPEEDS	
MODEL	Min.	Max.	RPM	Number of Increments
PVS	.5	36M	.05-1K	10K

* Ranges depend on "Bob" spindle selected.
M = 1 million K = 1 thousand cP = Centipoise mPa•s = Millipascal/seconds

Brookfield Rheometers

T: 800.628.8139 or 508.946.6200 F: 508.946.6262 www.brookfieldengineering.com

What's Included?

Instrument

Choice of spindle (bob) (p41)

Sample Cup (p41)

RheoVision software ▶

Carrying Case (shown below)

Optional Accessories

Viscosity Standards (p44)

Additional spindle (bobs) (p41)

Computer

Temperature Control Bath

Thermo Bath

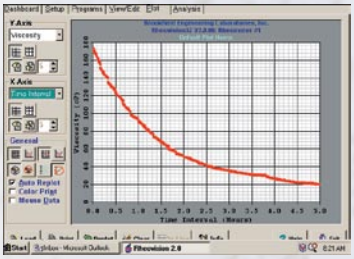
Available with triple annulus geometry for increased sensitivity when measuring low viscosity fluids

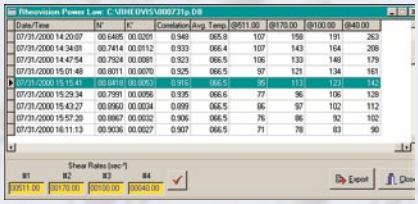
RheoVision Software Included

For automation and control of all test parameters

Specifically designed for sophisticated rheological analysis, Rheovision makes viscosity measurement under pressurized and temperature controlled conditions an easy task. Powerful scripting language provides simple to complex data collection programs including automatic calculation of yield stress using Bingham, Herschel-Bulkley, Power Law equations.

–Enhanced graphing capabilities
–Instantaneous flow curves
–Built in math modeling
–User-friendly ramp wizard for quick API testing
–Seal history tracking feature





Applications

Fracturing Fluids
Drilling Muds
Volatile Chemicals
Petroleum Products
Black Liquor

Thermo Bath option

for sample heating with small space requirement. Call for details.

Carrying Case

for portability in the field