

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

1000 psi (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

Fluid Temperature conditions:

from -40°C to +260°C



What's Included?

- Instrument
- Choice of spindle (bob) (p31)
- Sample Cup
- RheoVision software ▶
- Carrying Case ▶

Optional Accessories

- Viscosity Standards (p52)
- Additional spindle (bobs) (p31)
- Computer
- Temperature Control Bath
- Thermo Bath (p31)
- Available with triple annulus geometry for increased sensitivity when measuring low viscosity fluids

MODEL	VISCOSITY RANGE cP(mPa•s)		SPEEDS	
	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

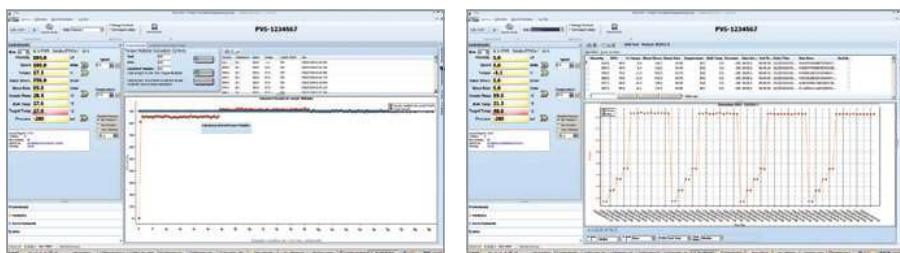


RheoVision® Software Included

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, and Power Law equations.

- USB and RS232 connectivity
- Multiple PVS units to PC communication controls.
- Enhanced graphing capabilities
- Easy calibration checks with auto-calculation of the torque multiplier and built-in linearity check
- Use of a powerful Microsoft SQL database allows users to
 - Define product, fluids, customer, location and other specific parameters for samples and later search data on these same fields
 - Search tests by parameters and allow data and test parameters to link for easier full profile viewing
- Instantaneous flow curves
- Built in math modeling
- User-friendly ramp wizard for quick API testing
- Seal history tracking feature



Applications

Fracturing Fluids
Petroleum Products

Drilling Muds
Black Liquor

Volatile Chemicals

PVS Spindles, Chambers and Rheometer Ranges

BOB/STATOR SAMPLE CUP	VISCOSITY RANGE cP(mPa•s)	SHEAR RATE (sec ⁻¹)	SAMPLE VOLUME (mL)*
PVS-B1-D-HC	2-5M	1.70N	23
PVS-B2-D-HC	20-36M	0.38N	40
PVS-B5-D-HC	5-10M	0.85N	30
PVS-TA5B5-D-HC	.5-1M	0.85N	175
CHAMBER			
PVS-30 (standard)	for use with B1, B2 or B5 spindle		
Triple Annulus	for use with PVS - TA5 B5 - D - HC		

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



Thermo Bath option with PID Enhanced Control Capability

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



Carrying Case

For portability in the field.



PVS CHAMBER

PVS SPINDLE