

PVS Rheometer

1'x1'x2' 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

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 $.02 \text{ sec}^{-1}$

Temperature conditions:
from -40°C to $+260^{\circ}\text{C}$

Test to industry standards



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 VISCOMETERS



ES France - Département Bio-tests & Industries
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Optional Accessories

Viscosity Standards
Additional spindle (bobs)
Computer
Temperature Control Bath
Thermo Bath

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

Applications

Fracturing Fluids
Drilling Muds
Volatile Chemicals
Petroleum Products
Black Liquor



Carrying Case
for portability in the field



Thermo Bath option
for sample heating with small space requirement.
Call for details.

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.

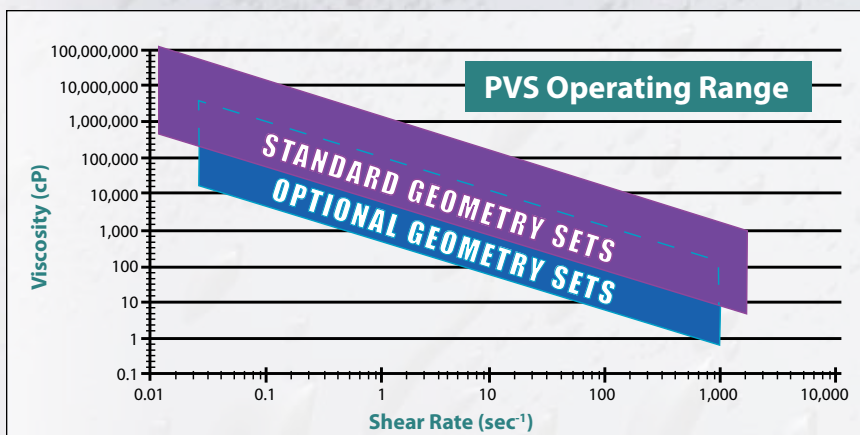
- Enhanced graphing capabilities
- Instantaneous flow curves
- Built in math modeling
- Seal history tracking feature
- User-friendly ramp wizard for quick API testing



PVS Rheometer Ranges

BOB/STATOR SAMPLE CUP	VISCOSITY RANGE cP (mPa•s)	SHEAR RATE (sec ⁻¹)	SAMPLE VOLUME (mL)*
PVS-B1-D-HC	2-5M	1.7N	16
PVS-B2-D-HC	20-36M	0.38N	64
PVS-B5-D-HC	5-10M	0.85N	30
PVS-TA5B5-D-HC	.5-1M	0.85N	150

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



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