

VISCOSITY

PERFORMANCE . QUALITY . SAFETY

PIPE FLOW AND IN-LINE VISCOMETERS

These instruments are designed for testing under complex flow conditions and can be customized to unique flow requirements.

DYNAMIC SCALE LOOPS provide outstanding measurement of the performance of scale inhibitors under high pressure and high temperature conditions. The system operates by injecting fluids into the test loop and measuring the differential pressure within the loop as scale is formed during the test. This fully automated system includes pH measurement, and data acquisition, and control software.



FRICTION FLOW LOOPS are fully automated systems which accurately determine the effectiveness of friction reducer polymers for optimizing slick water fluid designs. The 6700 full-size loop is available in multiple pressure and temperature options as well as custom configurations to meet your lab testing and space requirements. The 6700-M Mini-Loop™ is a benchtop unit designed for quick turnaround and lower sample volume testing making it ideal for QC/QA or field use.



FOAM RHEOMETERS measure the rheological properties of foamed fluids under high pressure and high temperature conditions. The automated software includes features that allow the operator control over foam quality, shear rate, shear stress, test time and operating temperature.



IN-LINE VISCOMETERS provide continuous, real-time viscosity and temperature measurement for a wide range of oilfield fluids, including fracturing fluids, drilling muds and cement slurries. Built for durability, it is engineered to perform reliability in the harsh and demanding environments encountered during well servicing and drilling operations.



ROTATIONAL VISCOMETERS

Chandler Engineering manufactures atmospheric and high pressure, high temperature (HPHT) viscometers. The HPHT viscometers can provide measurements at elevated pressures and temperatures in accordance with API standards.

5550 HPHT VISCOMETER is a computer-controlled, high-precision instrument designed for measuring the viscosity of completion fluids under extreme conditions. It features a sliding carbon dry-block heater and an external digital torque sensor for accurate, stable readings. Compliant with ISO and API standards, it operates up to 2,000 psi (14 MPa) and 500°F (260°C), making it ideal for HPHT applications.



5600 SHEAR HISTORY SIMULATOR is used to simulate shear conditions fracturing fluids experienced during pumping. It dynamically prepares and loads fluids into the 5550 HPHT Viscometer and has controlled flow through tubing to simulate real-world shear profile. The system operates at pressures up to 2,000 psi (14 MPa) for accurate, consistent fluid conditioning.



7550 HPHT VISCOMETER delivers high-performance viscosity testing in a compact and ergonomic design, ideal for space-limited labs. It is fully automated and equipped with advanced control software to meet the demands of modern drilling environments. With a pressure capacity of 30,000 psi (205 MPa) and a temperature capability of 500°F (260°C), it is built for ultra-high pressure and high temperature applications.



7600 ULTRA HPHT VISCOMETER is the highest pressure and temperature viscometer available for oil and gas applications, capable of operating up to 40,000 psi (275 MPa) and 600°F (310°C). It simulates extreme downhole conditions with full automation, advanced control software, and a removable sample vessel with an integrated elevator for easy handling. Designed for accuracy, safety, and wide viscosity ranges, it delivers reliable performance in the harshest environments.



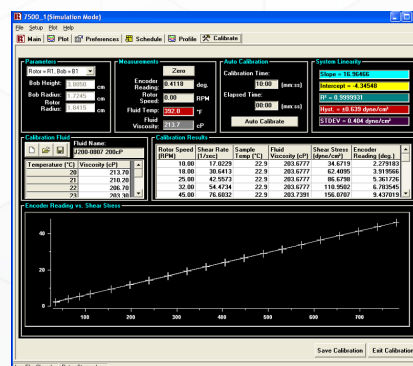
ROTATIONAL VISCOMETERS

3530 VISCOMETER is a versatile concentric cylinder instrument offering manual or fully automated operation for field or lab use. It meets API and ISO standards and operates from 0.01 to 600 rpm, with shear rates from 0.17 to 1021 sec^{-1} . Supplied with Rheo 3000 Software, it ensures consistent, reliable viscosity measurements with or without computer control.



SOFTWARE

RHEO™ DATA ACQUISITION & CONTROL SOFTWARE is fully automated and enables users to make the most of their viscometers. This software makes it simple to set-up for any test protocol. Test data is in a standard CSV format for sharing and transferring to spreadsheets and other programs. The software includes automatic calibration routines.



HISTORY


Since 1949, Chandler Engineering has been a trusted leader in delivering high-quality measurement instruments for the Oil & Gas Industry. As the industry's largest instrument supplier, Chandler Engineering continues to drive innovation, helping customers enhance the efficiency and productivity of their drilling and production operations.




At Chandler Engineering, we are united by our commitment to each other and the shared values that define our work. We promote unity, honor, and belonging within our company and extend that care to the communities we serve. Our dedication to innovation and excellence in energy solutions is driven by our desire to leave the world a better place for our families and future generations.



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360007 Rev - 4 - 2025



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