

Ramp Pressure Tester



Advance Pressure Testing Instrument for Glass Containers

Fast fill,
two-bay
operation

Prefilled bottles
capability

Single-bay
operation with
right bay prefill

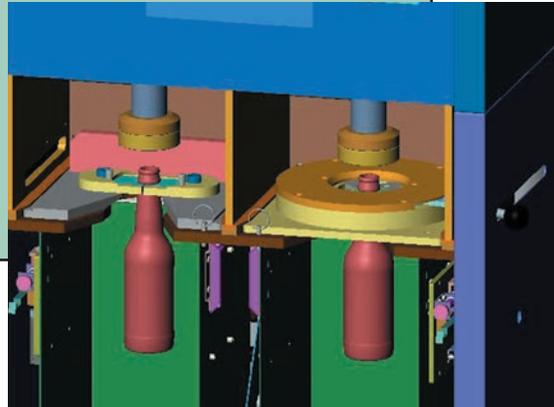
Optimized pressure
sequencing for
two-bay operation

Precision
application of
pressure per
ASTM Test C-147

The Ramp Pressure Tester 2X (RPT2X) is an advanced testing instrument developed for pressure testing glass containers. RPT2X follows a long history of pressure instruments developed by Agr over the last 30 years. Agr combined the best features of earlier Agr pressure testers with advanced electronics and automated functions to provide a testing system that is rugged, reliable, easy-to-use and can greatly improve laboratory efficiency. RPT2X is ergonomically designed for ease of operation and maintenance, and fully conforms to international test requirements for glass containers.

BASIC OPERATION

When a bottle is placed in the RPT2X, it is filled in seconds, topped off, and automatically clamped and sealed. A servo-driven piston then applies the necessary hydrostatic pressure to the container at a uniform rate, corrected to be equivalent to a one minute sustained pressure (per ASTM C-147). Tests can be taken to a predefined pressure point (proof testing) or to destruction. In the event of destruction, the burst pressure is captured and stored. The dual station design allows operators to load one container while the second container is being testing.



RPT2X OFFERS A NUMBER OF ADVANCED FEATURES

ADVANCED OPERATING SYSTEM

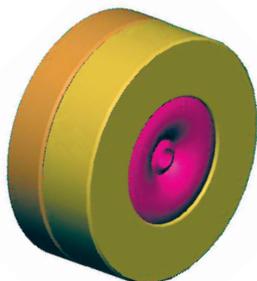
A Windows™ based operating system provides RPT2X with real-time response for servo and control functions, facilitating precise application of pressure with accurate test results. This powerful operating system supplies the necessary computing power for test and data management as well as diagnostic capabilities.

AUTOMATIC CLAMPING SYSTEM

A hydraulic clamping system works in conjunction with the compensating pressure seal to provide a positive, leak-free clamping force for low or high pressure applications. The clamping system automatically compensates for job-to-job height differences in bottle finishes, eliminating the need for manual adjustments.

AUTOMATIC FILLING

RPT2X incorporates a high-speed filling system, eliminating the need to fill bottles prior to testing, saving time and improving operator efficiency. Bottles are filled in two stages, the first stage rapidly fills the bottles and the second stage tops-off the fill prior to pressurization.

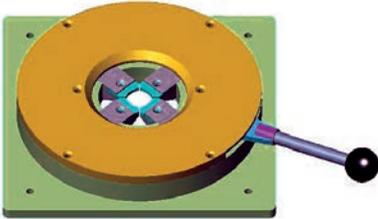
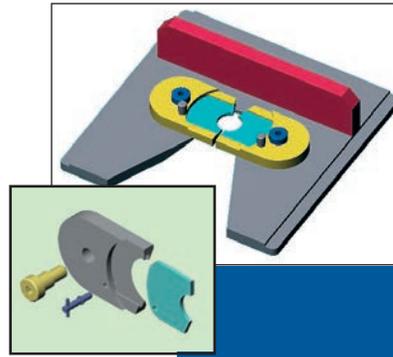


COMPENSATING PRESSURE SEAL

The specially designed pressure seals support a full range of testing, from low pressures up to a maximum of 900 psi (62 bars), without leakage. The unique design takes advantage of increasing water pressure to complete the seal. As water pressure is increased, the seal compensates and is forced against the bottle finish providing a tight, leak-free seal. Each seal fits a wide range of bottle finish sizes.

BOTTLE HOLDER CONFIGURATIONS

Insert-style Holders — Each RPT2X is equipped with replaceable insert-style bottle holders which feature a metallic base and high-strength composite plastic inserts sized to fit the bottle finish. Holders permit easy job change, longer life and reduced operational costs.



Universal Bottle Holder (optional) – The universal holder is designed to accommodate a range of finish sizes with the same fixture, eliminating the need to replace inserts for job changes. This option is ideal for applications with frequent job changes that involve bottles with varying neck and locking ring diameters.

Interchangeability — The RPT2X is designed for interchangeable use of either replacement insert-style bottle holders or the optional universal holder. Bottle holders mount on removable assemblies that can be quickly interchanged according to job requirements.

OPERATOR INTERFACE

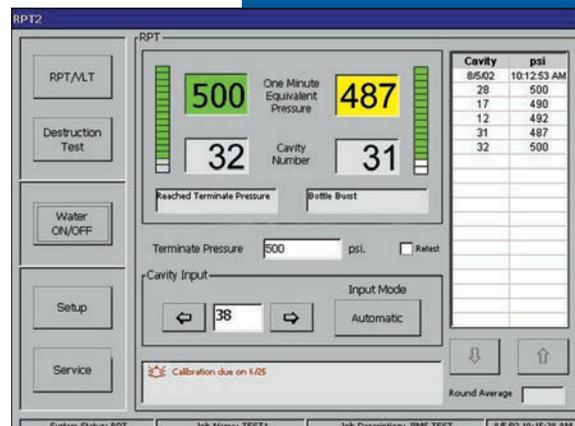
RPT2X utilizes a Windows™ style operator interface centered upon a large touch-screen panel. All operational and test configuration requirements are performed through a single location with a minimum number of operations. A separate, heavy-duty keypad is incorporated into the control panel for mold number entry. Test results are color coded and continuously displayed in large, easy-to-read numbers.

CAVITY CORRELATION & TEST DEFINITION STORAGE

On the RPT2X, the operator can enter the cavity or section numbers which can then be automatically correlated with the test data. Parameters for each job can also be stored by the operator and recalled for rapid job setup and changes.

RUGGED CONSTRUCTION

RPT2X is designed to stand up to the harsh environment of glass container manufacturing and filling plants. All components are housed in a rugged stainless steel enclosure. Components that are in contact with water are manufactured of materials that have a high resistance to corrosion. Electrical components are positioned away from hydraulic and water lines and given protective enclosures to prevent accidental contact with water and fluids.



VERTICAL LOAD TESTER COMPATIBILITY

RPT2X is 100% compatible with all Agr Vertical Load Testers. Standard test functions, designed into RPT2X, provide the pressure source and test control for vertical load testing. Test results are reported on the RPT2X display and can be cavity correlated.

AVAILABLE OPTIONS

- Vertical Load Tester
- Additional insert sizes for standard holders
- Universal bottle holders
- Test Gauge Assembly for calibration verification
- Cullet Catcher Assembly

Agr reserves the right to alter design and/or specifications without notification.