

QUALITY CONTROL SYSTEM

CYCLIC PRESSURE TEST

The cyclic test is conducted to replicate the standard lifespan of an object. In the case of a Hydrogen storage tank, the procedure involves filling the vessel with a fluid and applying pressure, followed by an emptying phase that simulates gas consumption. This repetitive cycle, performed thousands of times, serves to emulate the vessel's long-term usage.

ADVANCED PRESSURE REGULATION

- Up to 60 cycles under 1 minute
- Up to 70 bar
- stand-alone system with pressure source, individual pressure stations and control system
- "valveless" system and the
- state-of-the-art water hydraulic components
- airless pressure testing equipment

Throughout these cycles, critical parameters such as temperature, tank deformation, and potential leakage are monitored to assess the enduring performance over time.

The unique and advanced open-loop system of the SCITEQ Cyclic Pressure Testing System provides pressure cycles in the range from 2-70 bar with accuracy $\leq \pm 1$ bar of set pressure.

PROVEN TECHNOLOGY

SCITEQ has 60 years experience in supplying high-end test equipment worldwide.



MARKET LEADING SOFTWARE

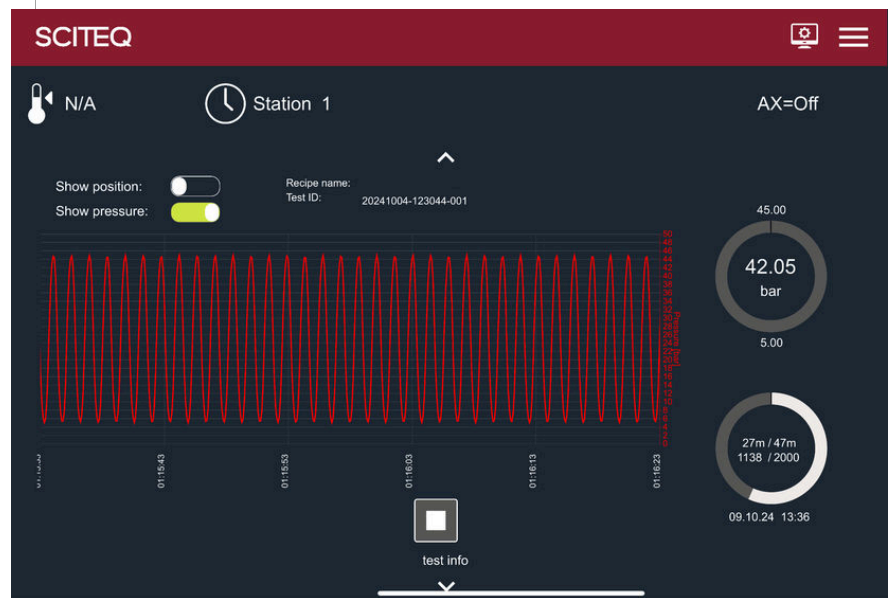
STABLE & ACCURATE

SIGMA Cyclic Pressure Testing System providing pressure cycles in the range from 2-70 bar with accuracy less than or equal to ± 1 bar of set pressure.

The test specimen is filled with water and subject to pressure cycles generated from individual piston pressure cylinders driven by servo-drive to adjust the pressure range and curve.

USER-FRIENDLY & AUTOMATIC

- Wireless browser based software.
- Easy recipe based solution.
- Dynamically adjusted real-time finish time.
- Logging 30 data points per second.
- Auto-generated reports.
- OPC UA and Industry 4.0 prepared.
- Intuitive and user-friendly.



	Cyclic Pressure Tester
Pressure range [bar]	2-70
Volume [ml]	Max. 90
Cycle range [Hz]	up to 3600 cycles/hour (60 cycles/min)
Cycle accuracy [stroke/min.]	+/- 1
Pressure set resolution [bar]	0,1
Pressure tolerance [bar]	+/- 0,5
No. of test cycles:	Up to 99.999 pr. test
Number of pressure stations	1 or 2

Visit sciteq.com for
videos and more info.
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