

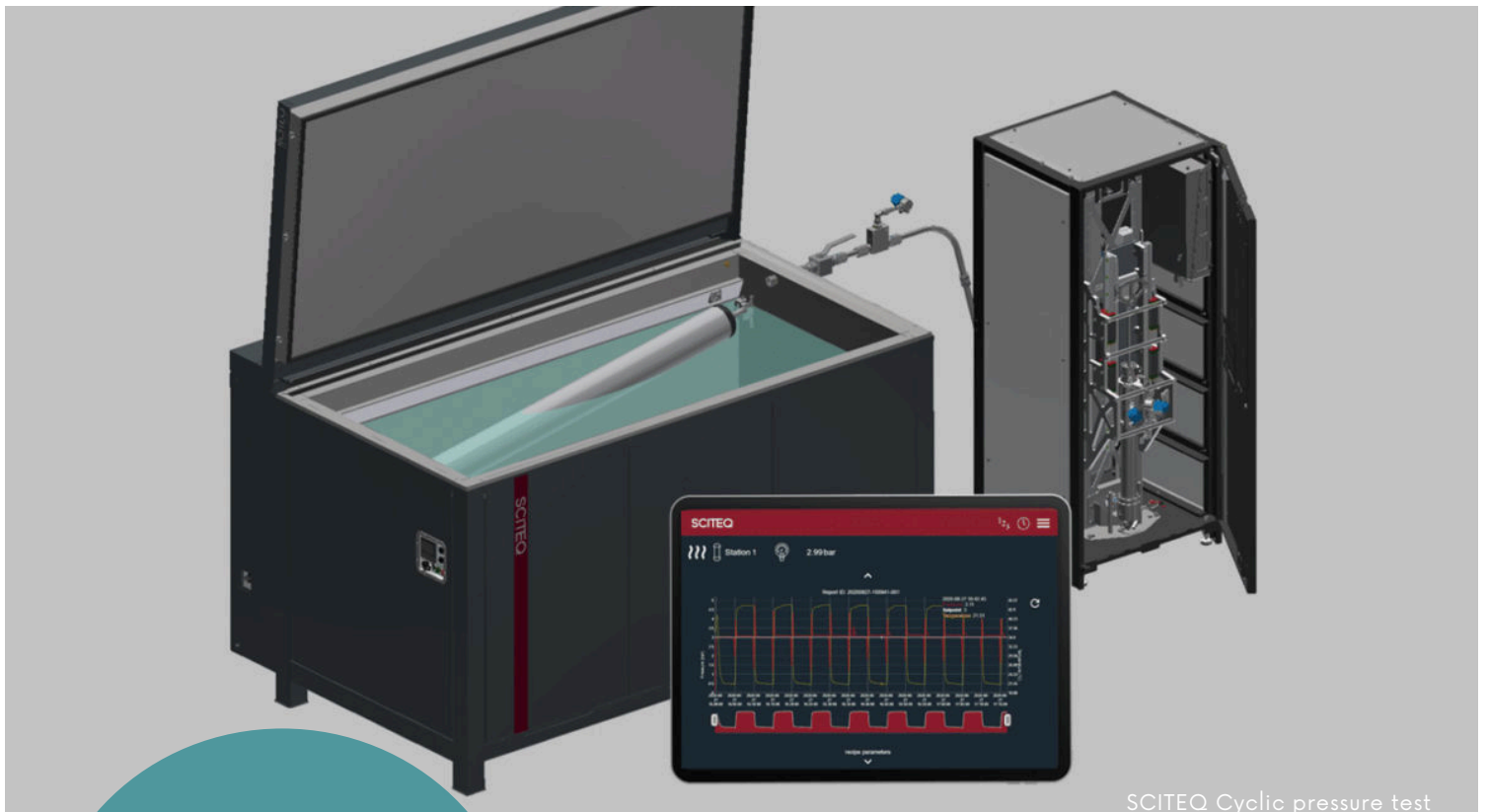
QUALITY CONTROL SYSTEM

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.

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 2-200 bar with accuracy $\leq \pm 1$ bar of set pressure.



SCITEQ Cyclic pressure test

SCITEQ has 55+ years experience in supplying high-end test equipment worldwide.

BEST IN CLASS PRESSURE REGULATION

- Up to 60 cycles under 1 minute
- Up to 100 bar/ 1450 psi
- 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

MARKET LEADING SOFTWARE

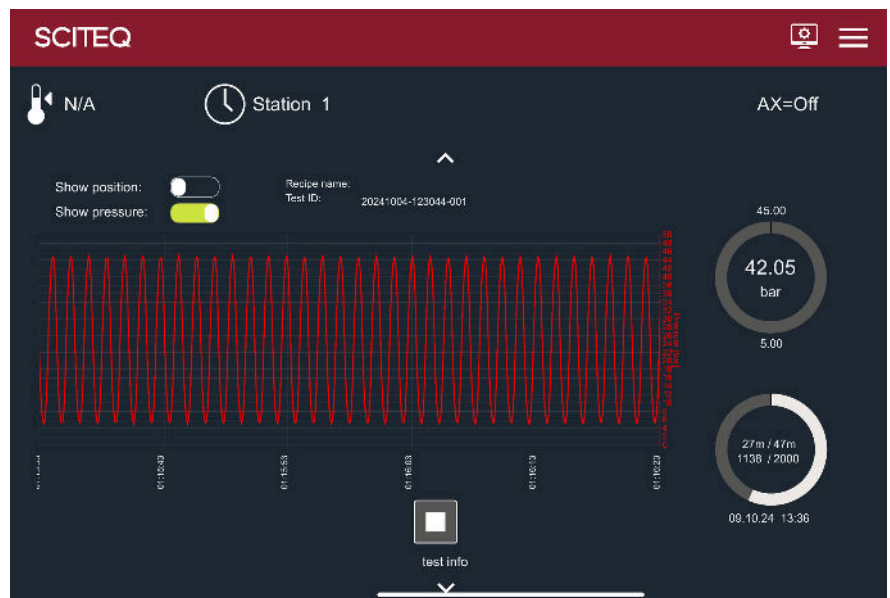
STABLE & ACCURATE

SIGMA Cyclic Pressure Testing System providing pressure cycles in the range from 2-100 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]	2-100
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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