PRODUCT DATASHEET

Hydrogen Test Stand for Valves, Fittings and Hoses

Leak, proof, burst and pressure-cycle tests with hydrogen to 1,000 bar and above

Product page





Close-up: test bunker and gas booster

OVERVIEW

The Tech Inc. Hydrogen Test Stand for Valves, Fittings and Hoses tests components for hydrogen service with the gas they will see.

TYPICAL DESIGN DATA

Gas pressure	To about 1,000 bar with hydrogen or helium
Burst pressure	Hydraulic, to about 4,000 bar
Cycling	Programmable profiles, thousands of cycles
Codes and standards	Test sequences to ISO 19880-3, ISO 19880-5, ISO 12619 or the client's standard; pressure parts to ASME B31.3 practice
Temperature	About -40 to +85 °C conditioning on request
Leak detection	Helium mass spectrometer or hydrogen sniffer
Safety	Bunker, interlocks, gas detection, venting to a safe location

MODELS AND CAPACITIES

- **TI-HTS-450** – gas tests to about 450 bar
- **TI-HTS-875** – gas tests to about 875 bar
- **TI-HTS-1000** – gas tests to about 1,000 bar
- **TI-HTS-B** – hydraulic burst to about 4,000 bar

Indicative maximum gas test pressure.

ORDERING CODE

Example **TI-HTS-875-LCB-T**: **875** maximum gas test pressure, bar; **LCB** tests: L leak, C cycle, B burst, P proof; **T** options: T temperature conditioning, N none.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** temperature conditioning chamber; helium mass-spectrometer leak detector; hydraulic burst circuit.

KEY ADVANTAGES

- **Real gas** – tests with hydrogen, not only nitrogen
- **Safe** – bunker, interlocks and detection
- **Full pressure** – to about 1,000 bar
- **Traceable** – every test recorded and reported

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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