

STEIN SEAL INDUSTRIAL

DIGITAL STATIC TESTER



Digital Static Testing When & Where You Need It

The compact, portable Digital Static Tester (DST) from Stein Seal Industrial is a specialized device used to accurately measure and instantly display the leakage rate of a static seal. It can be used on either new or refurbished seals, and can be used to test the flow of any system's seal regardless of seal type or size. Consistent and repeatable results are obtained by precisely applying air pressure to a seal placed within a specially designed fixture. The DST provides data in real time, utilizing actual temperature, absolute pressure, and volumetric flow rate.

The DST permits precise, real-time evaluation of seal performance under pressure without any movement between the seal faces. Essentially, it tests the degree to which a stationary seal is preventing fluid or gas from leaking out of the system. And its compact design and lightweight construction mean you can take it practically anywhere.

STEIN SEAL INDUSTRIAL 375 EAST CHURCH ROAD, TELFORD, PA 18969 U.S.A.
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 **STEIN
SEAL**
INDUSTRIAL DIVISION

Functionality, Compatibility, and Features

Functionality: The DST applies pressure to a sealed assembly and measures the amount of leakage that occurs, providing a quantitative value of the seal's effectiveness.

Compatibility: The DST is specifically designed for static seals (such as O-rings, gaskets, or flat seals) and for applications where there is no relative motion between seal faces.

Portability: Stein's proprietary DST design is so compact and lightweight, the unit is securely housed in a durable case no bigger than a typical piece of carry-on luggage.

Real-Time Analysis: Unlike older testing methods, a DST provides a precise, easily readable measurement of the leakage rate, allowing for better quality control and real-time analysis.

Applications: Put the DST to work whenever you're designing, constructing, installing, evaluating, or trouble shooting a static seal of any kind.

Quality Control

Test new seals to ensure they meet performance standards before installation.

Failure Analysis

Investigate the severity and cause of a leak.

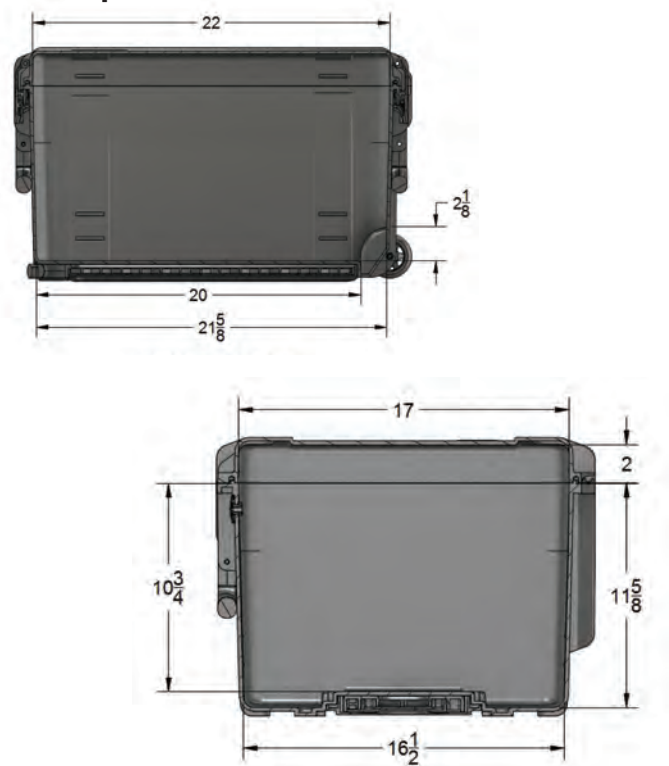
Material Selection

Compare different seal materials to determine the best option for a specific application.

Unit Specifications

- Air pressure can be set up to 100 PSI (6.89 bar)
- Customer specified flow ranges:
 - 0-0.5 SCCM to 0-250 SLPM
 - 0-1.76 x 10⁻² SCFM to 0-5 SCFM
 - Higher flow ranges can be ordered
- Coalescing filter of 0.5 microns for maximum size of airborne contaminants that can pass through the filter
- Operating temp. range of 14°F to 122°F (-10°C to +50°C)
- Reading accuracy is 0.8% of reading plus 0.2% full-scale accuracy
- Universal power supply; 100-240VAC, 50/60 Hz
- RS-232 communication port
- Digital pressure gauge can be configured for SI units
- Unit can be pre-calibrated to your specific requirements (re-calibration services also available)

Case Specifications



Body Material-Polypropylene
IP67-rated: Watertight, crushproof, and dustproof



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