Custom and Standard Leak and Pressure Test Seals

For over 30 years, CTS has been providing standard and customized designs for the toughest and most unique applications.

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Unequaled Experience

• CTS is the unmatched leader in function testing - providing turnkey systems that include the design, manufacture and global application support of custom built lean cell and automated function test solutions.

• CTS provides pressure decay, vacuum decay and mass flow leak testing solutions; in addition to tracer gas testing solutions using gases such as helium, hydrogen, nitrogen, argon, and CO2.

• CTS produces NIST traceable leak standards for conducting leak, flow, and tracer gas calibration. Strict procedures are followed to remain accredited by A2LA to the ISO 17025 standard. Every leak standard is sized for each application to meet specified flow and pressure requirements.

• CTS designs and manufactures custom urethane seals – this is our specialty. Our collection of innovative designs is a culmination of three decades of CTS integrated leak test experience.

Manually Actuated CTS Connect® Seals

• Effective seals for smooth, rough or threaded ports (NPT, Metric, or SAE) of a part and available for most common tubing and port sizes

• Consist of a cam drive piston that compresses the CTS proprietary seal material against the surface of the part, creating a tight seal that meets all test pressure requirements—regardless of surface, shape or finish

• Proprietary seal material offers superior compression performance, cut and abrasion resistance, and extended life

• Designed with ergonomic actuating levers and optional comfort grip handles for ease of use

• Effectively seals without the risk of marring the surface of the part

• Cam lock actuator stays in place until released

• Anodized surface - engineered for superior wear and corrosion resistance

• Easy lock seal compression adjusts to fit your application

• Large test/fill ports for optimized flow

• CTS Connect connectors provide easy seal replacement

ID Seals

• Manually actuated ID sealing connectors effectively seal inside diameters on smooth, rough, or threaded ports and covers most common tubing and port sizes (NPT, Metric, or SAE)

• HIH series connector is supplied with an extended test/fill air inlet and cushion covered, ergonomically designed grip for all day operator comfort

• HIF series connector is supplied with a threaded test/fill air inlet

• HI series connectors are plug only seals

OD Seals

• Manually actuated OD sealing connectors effectively seal outside diameters on smooth, flared, or threaded tubes and covers most common sizes (NPT, Metric, or SAE)

• HOH series connector is supplied with an extended test/fill air inlet and cushion covered, ergonomically designed grip for all day operator comfort

• HOF series connector is supplied with a threaded test/fill air inlet

• HO series connectors are plug only seals

Maximize Efficiency, Productivity and Profitability with Custom + Standard Manual Leak and Pressure Connectors.
**Worldwide Testing Solutions for Over 30 Years and Supporting Over 25,000 Test Applications Around the Globe.**

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- CTS provides technical service capabilities which include international service centers and service engineers with the ability to:
  - Travel worldwide for installation, setup, service, and training
  - Conduct in-house service (when a customer sends in products for servicing and re-calibration)
  - Answer and address questions or emergencies 24/7
- CTS is part of the TASI Group. A world class group of test, measurement, inspection and assembly companies providing a broad range of resources to industries around the globe.

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**World Class Testing Solutions • Delivering Best-In-Class Performance**

**Worldwide Service and Support**
- Test Instrumentation • Engineered Test Systems • Integration
  - Leak • Flow • Function Test • Measurement • Calibration • Gas Recovery
Air Actuated CTS Connect Seals

- Effective seals for smooth, rough or threaded ports (NPT, Metric, or SAE) of a part and available for most common tubing and port sizes
- Consists of an air-driven internal piston that compresses the CTS proprietary seal material against the surface of the part creating a leak-free seal that meets all test pressure requirements—regardless of surface, shape or finish
- Proprietary seal material offers superior compression performance, cut and abrasion resistance, and extended life
- Automated sealing minimizes operator fatigue and injury
- Large test/fill port holes provides optimized flow
- Effectively seals without the risk of marring the surface of the part
- Tapered guide adapter quickly guides part into the CTS Connect fitting and eliminates damage to the body and seal
- Patented design makes these CTS Connect connectors the easiest to use and the most trouble free connectors you can buy

Applications

Individual component and completed assembly testing capability for:

- Leak Testing
- Fill Testing
- Burst Testing
- Pressure Testing
- Integrity Testing
- Clean and Flush Testing
- Evacuation and Charge Testing
- Seal Testing
- Part Handling Testing

ID Connectors

- Built-in stroke limiter prevents rolling and keeps seal in place
- Tapered and threaded nose secures seal and allows easy replacement
- Wrench flats on seal shaft allows easy maintenance, such as to change seals and tighten fittings
- Standard and custom shaft extensions of 1", 2", 3" and 4" available
- Spring mount compliance adapters available to compensate for minor part misalignment

OD Connectors

- Spanner wrench holes in cap and body for easy assembly, disassembly and for seal replacement
- Set screw slot secures cap to body and protects threads
- Optional lead-in cover to guide seal and protect the part
- Spring mount compliance adapters available to compensate for minor part misalignment

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**Applications**
- Individual component and completed assembly testing capability for:
  - Leak Testing
  - Fill Testing
  - Burst Testing
  - Pressure Testing
  - Integrity Testing

**Standard and Custom Air Actuated Luer Seals**
- Luer fittings provide a custom nosepiece that grips the outer geometry of the luer fitting. An air driven internal piston drives the seal material into the face of the part, creating a tight seal that meets all test pressure requirements.
- FDA approved medical grade seal material
- Patent-pending easy quick-change nosepiece securely locks into place to accommodate multiple luer fitting designs
- Luer connectors are designed for easy assembly and disassembly
- Safety vent port prevents cross contamination of test air and pilot air

**Applications**
- Individual component and completed assembly testing capability for:
  - Catheter Testing
  - Non-Compliant Balloon Catheters
  - Multi-Lumen Catheters
  - Respirator Breathing Circuit Testing
  - Check Valves and Pressure Relief Valve Testing

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**Medical Grade Seal Solutions**
- FDA approved medical grade seal material
- Patent-pending easy quick-change nosepiece securely locks into place to accommodate multiple luer fitting designs
- Luer connectors are designed for easy assembly and disassembly
- Safety vent port prevents cross contamination of test air and pilot air

**Medical Grade Seal Solutions**
- Materials are all clean room compatible with anodized aluminum body and part contact surfaces are 316 surgical stainless steel
- Seals on typical luer fitting applications will last for thousands of cycles

**Customized solutions. Engineered for your parts and application.**
Unequalled Expertise

Automotive and Truck Applications

Individual component and completed assembly testing capability for:
- Powertrain Testing
- OD and ID Engine Connection
- Transmission and Drive Line
- Transmission Coolant Line
- Fuel Line
- Brake System Line
- Engine Coolant Line

Industrial Applications

Individual component and completed assembly testing capability for:
- Gas Cylinder Testing
- Transformer Testing
- Pneumatic Power Tool Testing
- Valve and Tube Testing

HVAC/R Applications

Individual component and completed assembly testing capability for:
- Residential HVAC
- Commercial HVAC
- Vending Refrigeration

Unmatched in the industry with lead time 20-30% faster!

Unsurpassed selection of pressure test seals with low pressure and high pressure applications.

Standard and customized designs for the toughest and most unique applications.

Consumer Appliance Applications

Individual component and completed assembly testing capability for:
- Refrigerator Testing
- Stove Testing
- Gas Range Testing
- Water Heater Testing
- Gas Grill Testing
- Washer/Dryer Machine Testing
- Faucet Testing
- SPA Tub Testing

Superior. Reliable. Easy-to-Use. Seals effectively on all different types of sealing surfaces and openings.
Unequalled Expertise

Automotive and Truck Applications

- Individual component and completed assembly testing capability for:
  - Powertrain Testing
  - OD and ID Engine Connection
  - Transmission and Drive Line
  - Transmission Coolant Line
  - Fuel Line
  - Brake System Line
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