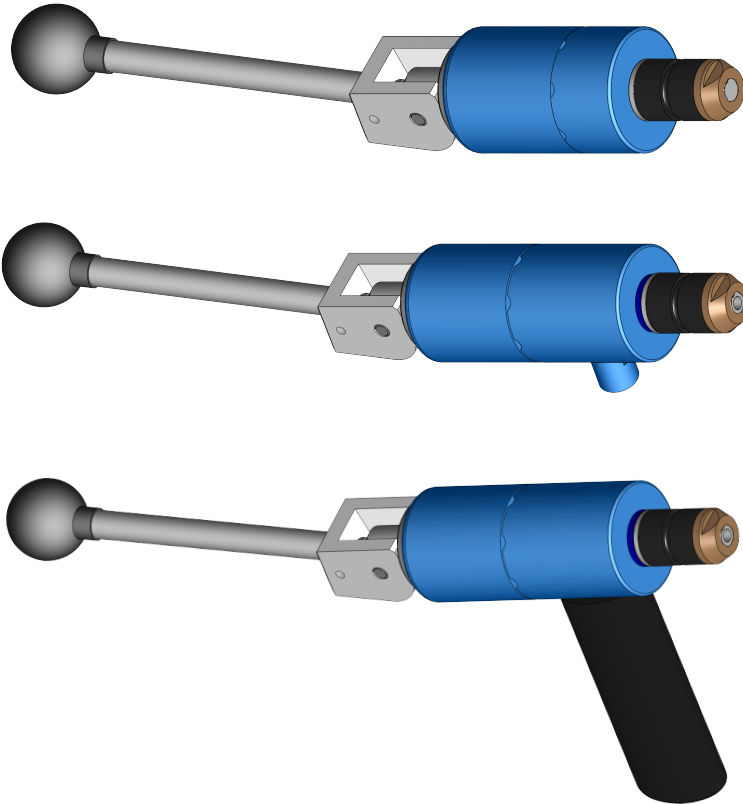


# CTS Connect

## HI CONNECTOR



### SEAL ASSEMBLY AND INSTALLATION

1. Check HI connector assembly for proper seal size, seal material, number of seals, spacers, and washer in the connector assembly.
2. There are three basic connector body styles with multiple sealing ranges available.
3. To replace the seals, loosen the brass nose on tip of the seal stem, using the wrench flats on the nose.
4. Remove nose from the stem.
5. There is typically a seal, stainless washer, and a blue-anodized spacer, held in place by the nose.
6. Remove and replace seal.
7. Tighten nose to the stem using the wrench flats on the nose.
8. Do not over-tighten.

### HI Manually Actuated Connectors

CTS Connect manually-actuated hand seal connectors effectively seal inside smooth, rough, and threaded circular features of a part for either pressure or vacuum testing, filling, or flushing.

The connector consists of a manually driven stem that compresses seal material against the surface of the part, creating a tight seal that meets all test pressure requirements.

There are three different body styles to choose from; HI which is a plug seal, HIF utilizes a fill port, and HIH is a fill port with handle.

### SEAL ADJUSTMENT

The HI connector has the ability to adjust the amount of compression needed on the seal and test part, depending on the material of the part being tested, and the amount of compression needed to hold the seal on the test part at the desired test pressure. To adjust the seal compression, follow these steps:

1. Loosen the set screw located in the side of the cap.
2. To adjust compression, rotate the cap.
  - a. To decrease compression, screw cap towards seal stem.
  - b. To increase compression, unscrew cap towards lever handle.
3. It is helpful to trial actuate the seal in the test part without test pressure to check seal compression.
4. Once adjusted, align set screw with nearest slot in body.
5. Re-tighten the set screw in body.

## HI Connector Operation and Integration

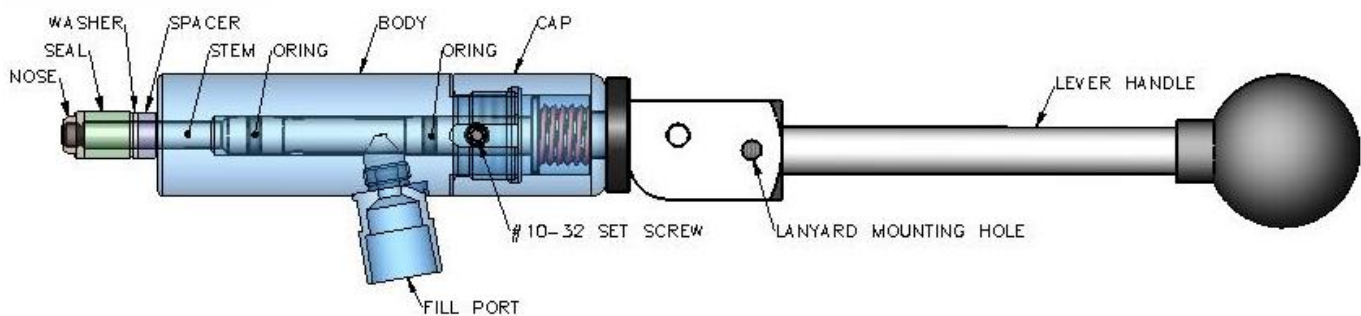
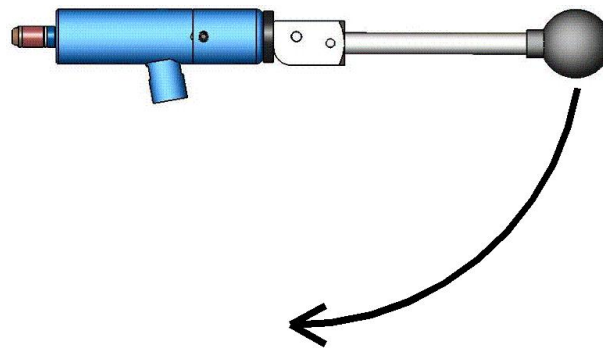
For safe operation in pressure applications, it is recommended that the HO Connector be restrained with the use of a lanyard to prevent injury in the event that the test pressure would blow the seal off of the test part, while under pressure. The HI Connector has a threaded hole located on the lever handle cam as an added feature to allow an easy to use connection point for a lanyard type device

## Operating the HI Connectors

1. Position lever handle so that it is parallel with connector body.
2. Insert seal into test part.
3. Actuate connector by rotating lever handle to be perpendicular with connector body, sealing the part.
4. Test, fill, or flush part, using the fill/test port, if applicable.
5. Relieve fill or test pressure.
6. Return lever handle to be parallel with connector body to decompress seal.
7. Withdraw seal from part.

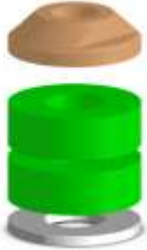
## Pressure Connections

- Models that come with the fill option will have a fill port located on the side of the connector. There are two options available for this.
- One is a connector with a basic fill port (HIF) attached to the side of the connector, and the other being a connector with the handle option (HIH) with the fill port located in the end of the handle.
- All test ports accommodate  $\frac{1}{4}$ "MNPT threads.
- Connect your test pressure to the fill port. For leak testing, it is recommended to use an instrumentation grade fitting and Teflon tape.



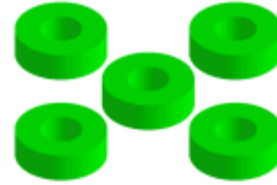
## CO Connector Optional Accessories

### Main Seal Kit



The main seal kit contains seals and washers

### Spare Seals



Spare seals are available to order in minimum quantities per connector type.

## CINCINNATI TEST SYSTEMS, INC. PRODUCT WARRANTY

Because of the variety of uses for this equipment and because of the differences between this solid state equipment and elec-tromechnical equipment, the user of and those responsible for applying this equipment must satisfy themselves as to the acceptability of each application and use of the equipment. In no event will Cincinnati Test Systems be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The illustrations, charts, and layout examples shown in this manual are intended solely to illustrate the text of this manual. Because of the many variables and requirements associated with any particular installation, Cincinnati Test Systems cannot assume responsibility or liability for actual use based upon the illustrative uses and applications.

CTS warrants that the Products, under normal and proper use, shall be free from defects in material and workmanship that impair its usefulness, for a period of 1 year from the date of shipment. CTS' obligation under this warranty is limited to repair-ing or replacing, at CTS' option, any defective non-consumable parts. Consumable parts are specifically excluded from this warranty, including elastomers and seals,. This warranty is conditioned upon Buyer furnishing satisfactory evidence that the Products alleged to be defective has been properly maintained and correctly operated under normal conditions with competent supervision and within the operating limits for which such Products are offered and sold.