

# Main Seal Replacement & Re-Build Instructions

## Connector Maintenance:

- Establish a regular interval for maintenance as determined by user media and operational environment.
- Inspection should include visual checks of the sealing area, sleeve or body wear, missing or loose components, leak tightness, ease of operation, sufficient lubrication, wear, dirt accumulation and damage.
- Establish a regular interval for lubrication. The media and environment will be determining factors in establishing this interval to prevent dryness and/or corrosion.
- Difficulty of operation after continual use indicates a need for lubrication or other maintenance.
- Use only original **FastTest** spare parts that are designed for the application and are subject to strict quality control. See warranty.

## Safety Warnings – Guidelines:

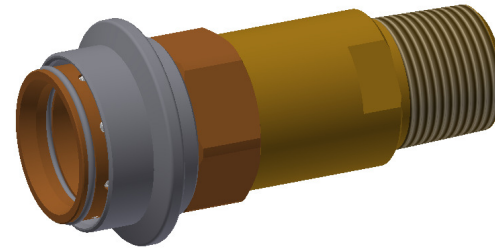
- If instructions are not completely understood by operator or components are missing, contact **FastTest** before attempting use of the connector.
- Application Safety: All **FastTest** products have been designed with safety in mind; however, it is the responsibility of the user to design each process in such a way to avoid mishaps that can cause physical hazard or property loss. Secondary restraints such as safety chains, shields, cages or fixtures are all good choices depending on the application. **FastTest** can recommend or assist you in clarifying potential hazards of your application.
- **FastTest CryoVent** connectors shall only be used with relief valves of a specific size and shape, specifically of the external 7/8" hex that is found on the following popular relief valves:
  - Generant – CRV, IRV (brass only), and LCV series
  - Rego – PRV, NR series 1/2"NPT and smaller
- Improper use may separate the connector from the test piece resulting in physical harm or damage.

## **FastTest, Inc. Product Warranty**

FastTest, Inc. warrants its products against defects of workmanship and/or material for 12 months from the date of the sale by FastTest, Inc. This warranty is void if the product is misused, tampered with or used in a manner that is not in accordance with FastTest, Inc. recommendations and/or instructions. FastTest, Inc. is not liable for consequential or other damages including, but not limited to, loss, damage, personal injury, or any other expense directly or indirectly arising from the use of or inability to use its products either separately or in combination with other products. ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, WHETHER ORAL OR WRITTEN, INCLUDING BUT NOT LIMITED TO WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Remedy under this warranty is limited to replacement of the product or an account credit in the amount of the original selling price, at the option on FastTest, Inc. All allegedly defective products must be returned prepaid transportation to FastTest, Inc. along with information describing the products performance, unless disposition in the field is authorized in writing by FastTest, Inc.

# CryoVent Main Seal Replacement & Repair Kit Re-Build Instructions



**FastTest CryoVent** connectors are designed to provide a safe, reliable connection and seal when properly maintained and connected to many popular industrial and cryogenic relief valves.

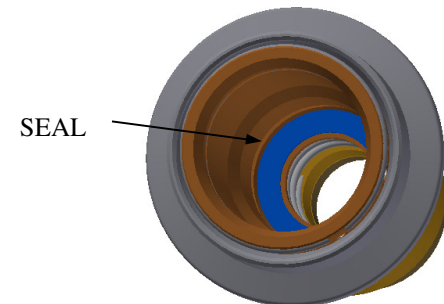
Please thoroughly read and understand these repair instructions prior to disassembling the connector.

Tools required are: a vice, a pick or small flat screwdriver, 1.25" crescent or adjustable wrench, and torque wrench for 35 ft-lb.

- Connector Maintenance
- Safety Warnings – Guidelines
- Main Seal Only Replacement
- Repair Kit/Re-Build Instructions

## Main Seal Replacement:

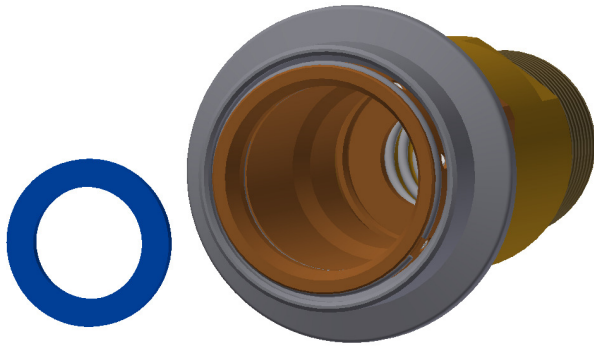
1. Look down connector and identify the blue seal.



# Main Seal Replacement & Re-Build Instructions

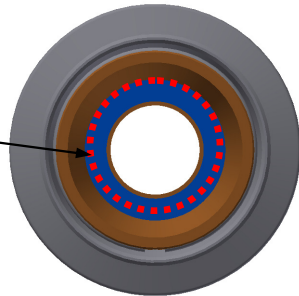
- Using sharp pick or small flat screwdriver, carefully poke tool around inside diameter of seal and pull out of piston.

**NOTE - BE CAREFUL  
NOT TO DAMAGE PISTON!**



- Discard old seal and replace with new seal. Carefully push around outer diameter of seal to lock seal into piston. Take care not to damage seal. Using a relief valve to push seal into piston may also work.

ENSURE SEAL  
IS FULLY  
INSIDE  
PISTON  
GROOVE



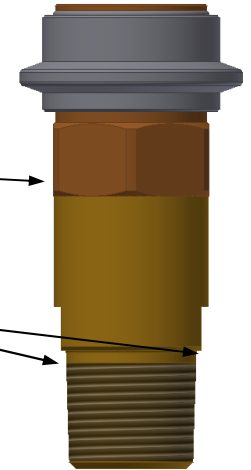
## Repair Kit / Re-Build Instructions:

### Dis-assembly

- Remove CryoVent connector from service, and remove from hose. Place in vice using the flats on the back body. Repair kit includes three parts: one seal, one o-ring, and one spring.

HEX ON  
FRONT BODY

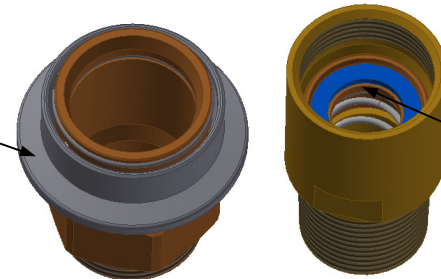
FLATS ON  
BACK BODY



- Using a 1.25" crescent wrench on the front body hex, remove the front body by unthreading counterclockwise. Set aside for re-assembly later.

SET ASIDE  
FRONT BODY  
ASSEMBLY

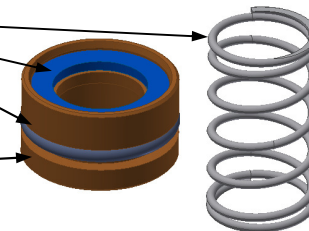
PISTON AND  
SPRING



- Remove piston and spring. Remove seal and o-ring from piston using a pick or small flat screwdriver. Discard spring, o-ring, and seal. Retain piston for reuse.

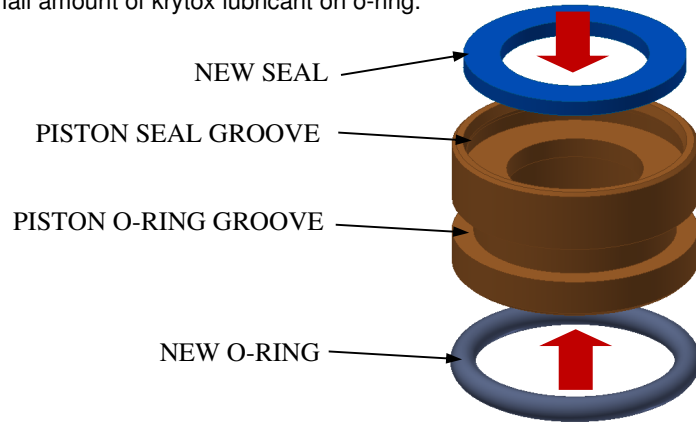
DISCARD  
SPRING, SEAL  
AND O-RING

KEEP PISTON

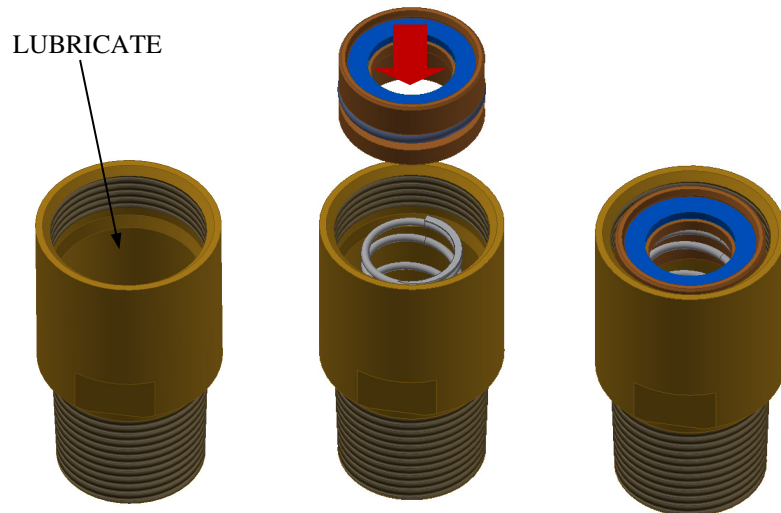


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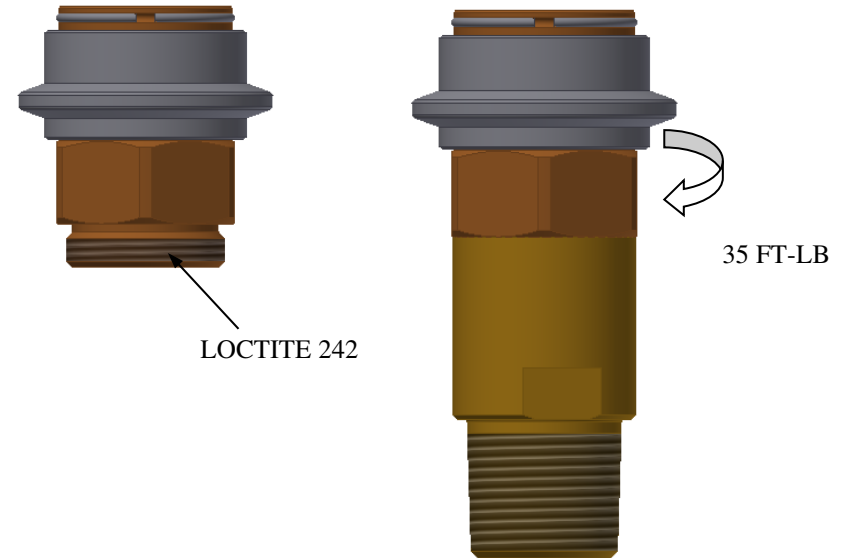
4. Place new seal into piston groove. Place new o-ring into o-ring groove. Place a small amount of krytox lubricant on o-ring.



5. Lubricate piston bore with small amount of krytox. Install new spring inside bore and then carefully place piston assembly inside back body bore.



6. Place a small drop of Loctite 242 on threads of front body. Install front body onto back body using 1.25" wrench and apply 35 ft-lb.



7. Assembly is complete. Remove from vice. Ensure proper function of the connector and return to service.

