



# NC104-200

## Bus & Truck Nozzle

## Instruction Manual

### **⚠ WARNING**

Failure to follow these instructions or to properly install and maintain this equipment could result in gas leakage, fire or explosion causing property damage and personal injury or death.

Oasis NC104-200 nozzles must be installed, operated and maintained in accordance with state, federal and local codes, rules and regulations and Oasis instructions.

Installation, operation and maintenance procedures performed by incompetent personnel may result in improper assembly or unsafe operation. Either condition may result in equipment damage or personal injury. Use competent personnel when installing, operating and maintaining the NC104-200 fuelling nozzle.



Servicing Video

Oasis Engineering Ltd  
129 Birch Avenue, Tauranga, New Zealand.  
T: +64 7 928 3808  
E: [info@oasisNGV.com](mailto:info@oasisNGV.com)  
W: [www.OasisNGV.com](http://www.OasisNGV.com)



Instruction Manual

## Specifications

Product	Recommended cycles before servicing	Nozzle connection thread	Receptacle type	Service kit
NC104-200	100,000	7/8-14" SAE Female	C200 receptacle conforming to ISO 14469-2	NC104-SK200-1

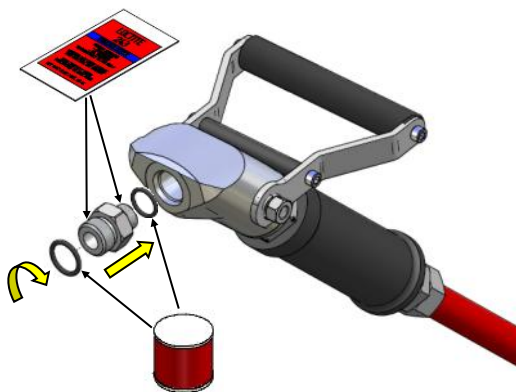
For more product information consult the NC104 bus and truck nozzle specification sheet or contact Oasis engineering.

## Installation

### Equipment Required

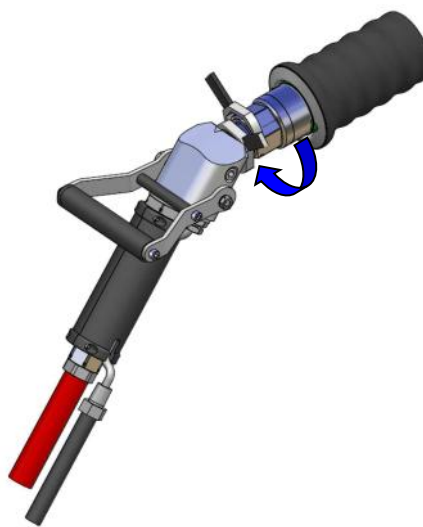


**1. Ensure O rings are installed on both sides of the adapter. Apply thread locker to both threads on the adaptor and screw into fill valve. Oasis recommends the FV103 fill valve**



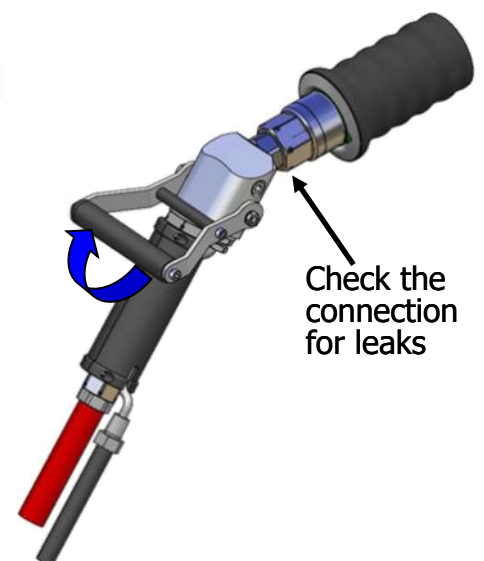
Torque to 70 Nm

**2. Tighten the nozzle to the three way valve Device**



Torque to 90 Nm

**3. Slowly turn on the handle and test the fitting for leaks**

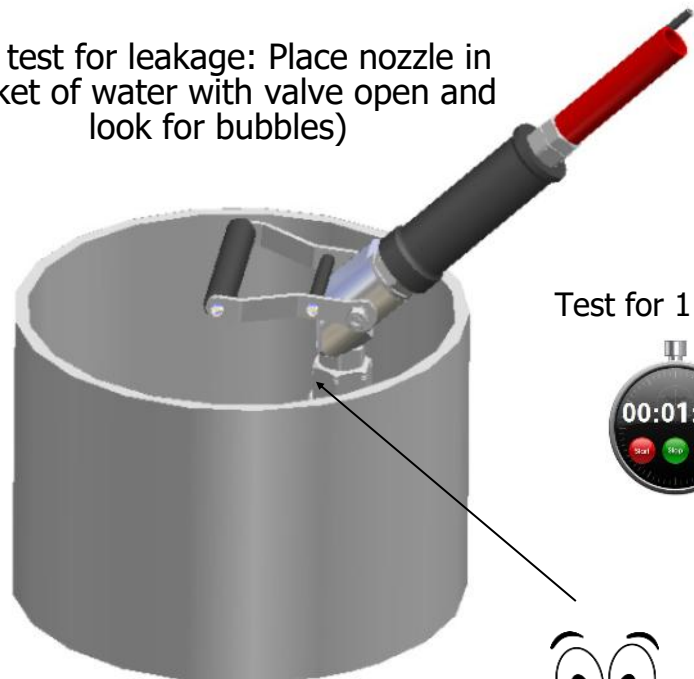




**⚠ CAUTION**

When testing the valve, ensure the valve is held securely and opened slowly for the first time after servicing. If any leakage occurs then stop test and do not use nozzle. Contact Oasis for help.

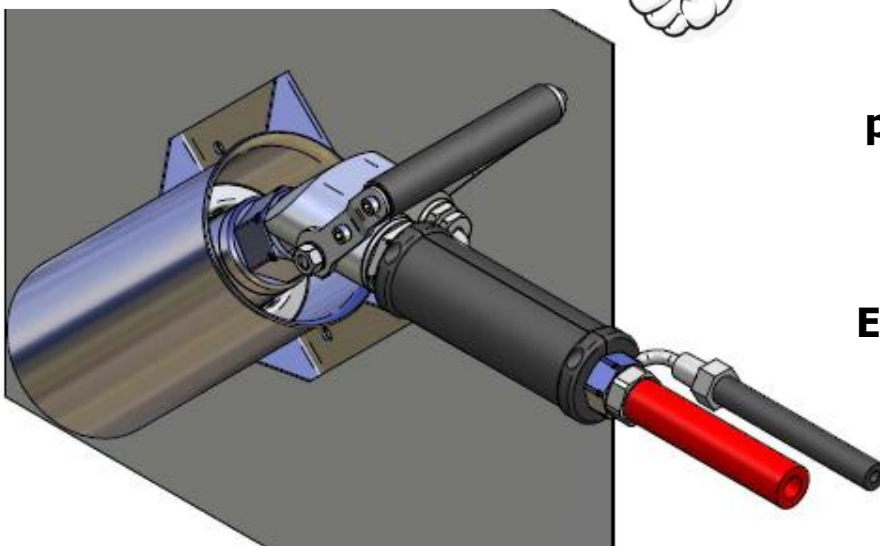
(To test for leakage: Place nozzle in bucket of water with valve open and look for bubbles)



Test for 1 minute



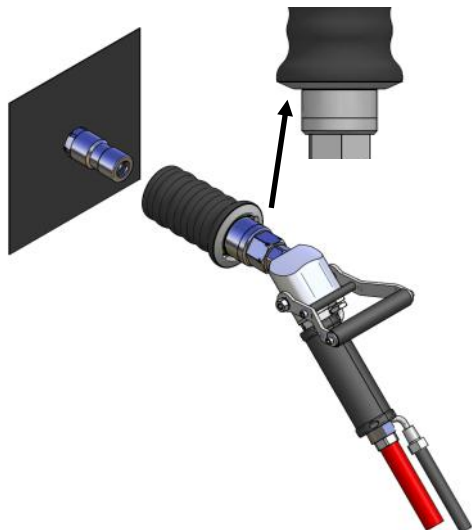
**4. Hang the Nozzle up and ensure it is not left on the ground**



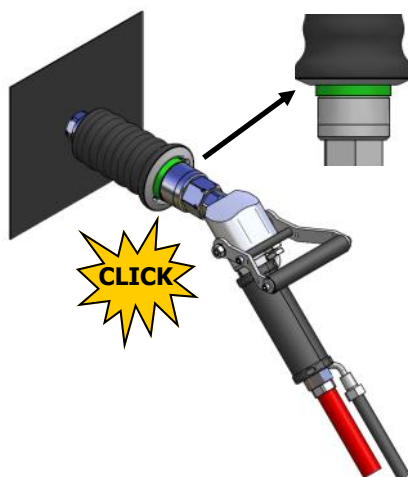
**A three way venting device must be used with this product to ensure it operates correctly. Oasis recommends the FV103 fill valve.**

**Ensure the product is hung up and remains free from damage**

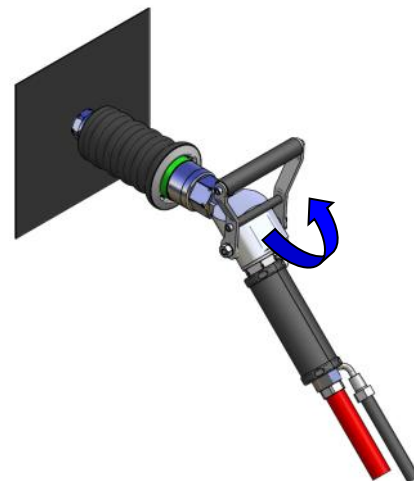
**1. Push the nozzle onto the receptacle**



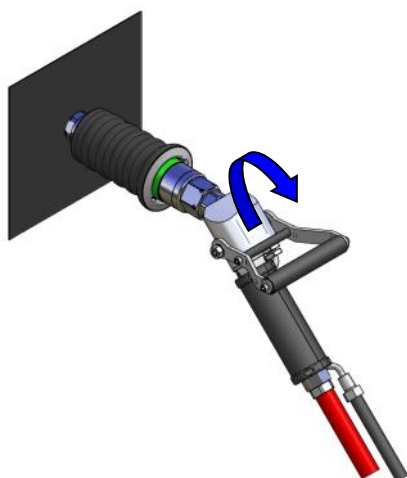
**2. When coupled the nozzle will click into position and the green indication sleeve is visible**



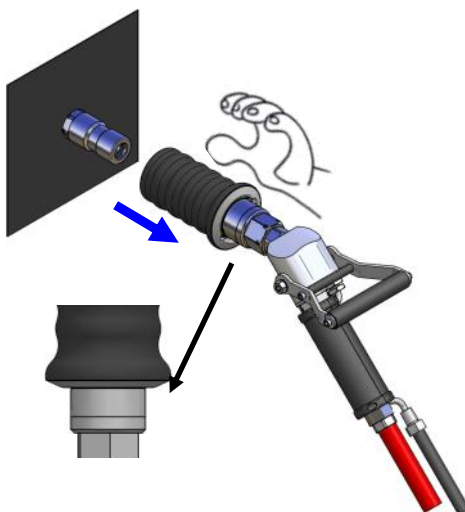
**3. Open the handle on the fill valve to begin filling**



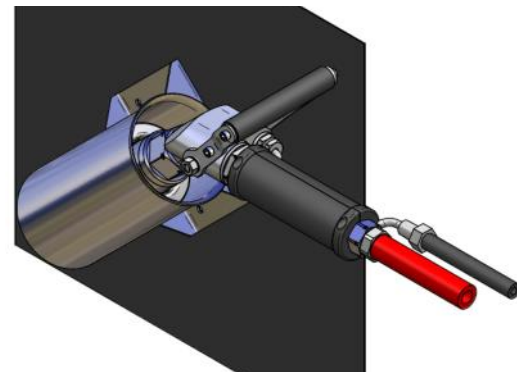
**4. Close the handle when filling is complete to vent the nozzle**



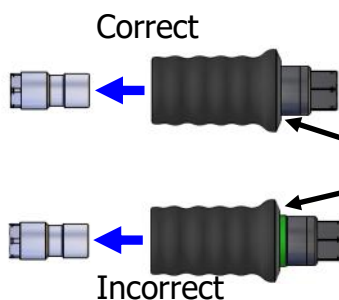
**5. Pull back on the black sleeve to disconnect the nozzle from the receptacle**



**6. Return the nozzle to the holder and ensure it is not left on the ground.**



**7. Do not attempt to use the nozzle if the green sleeve is visible prior to connection.**

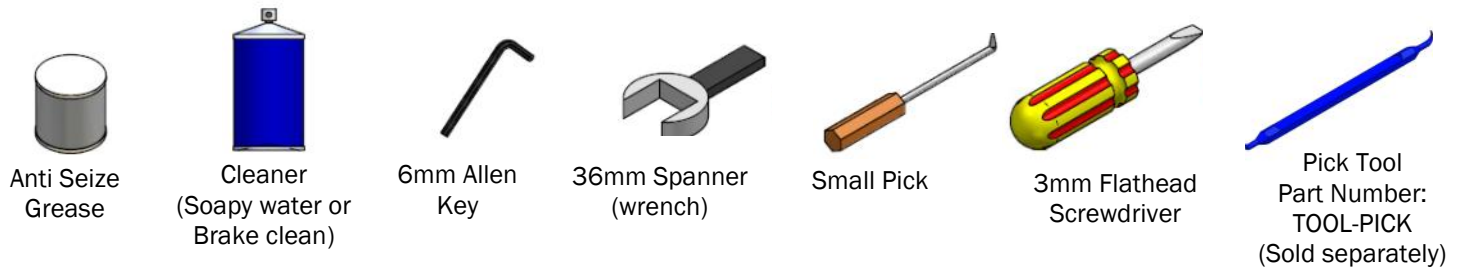


**CAUTION**

Do not use the device if the green sleeve is visible when not connected to a receptacle. Contact Oasis Engineering if this happens. Failure to comply could result in property damage and/or personal injury



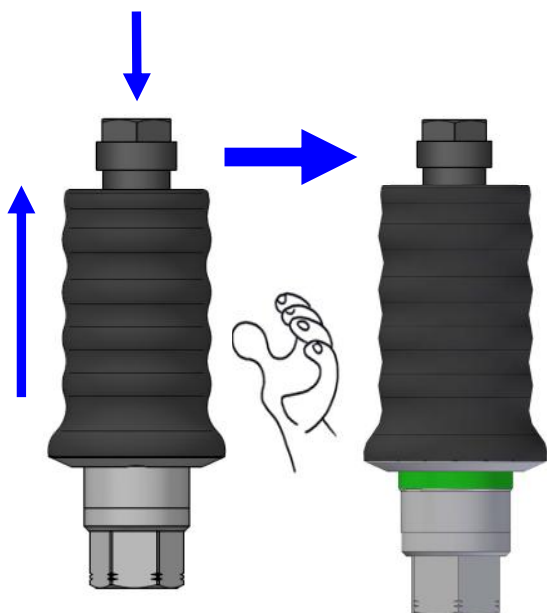
## Equipment Required



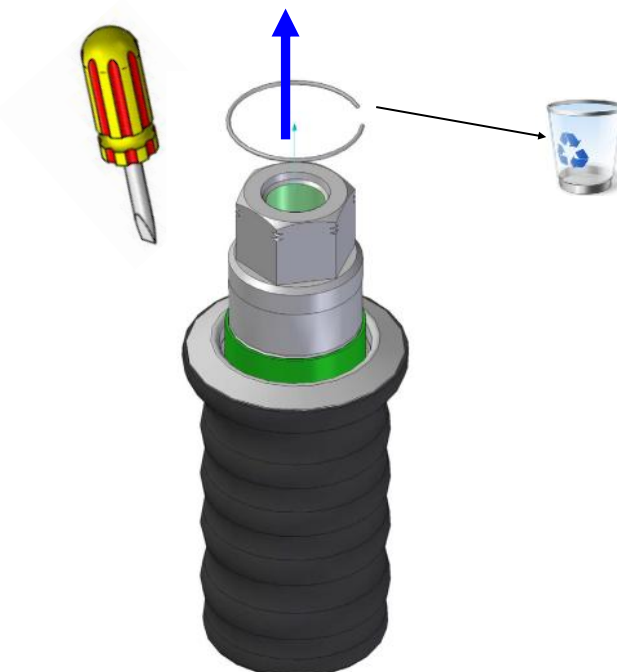
## Components In Service Kit



**1. Push the NC104 tool into the front and pull the sleeve into the coupled position.**



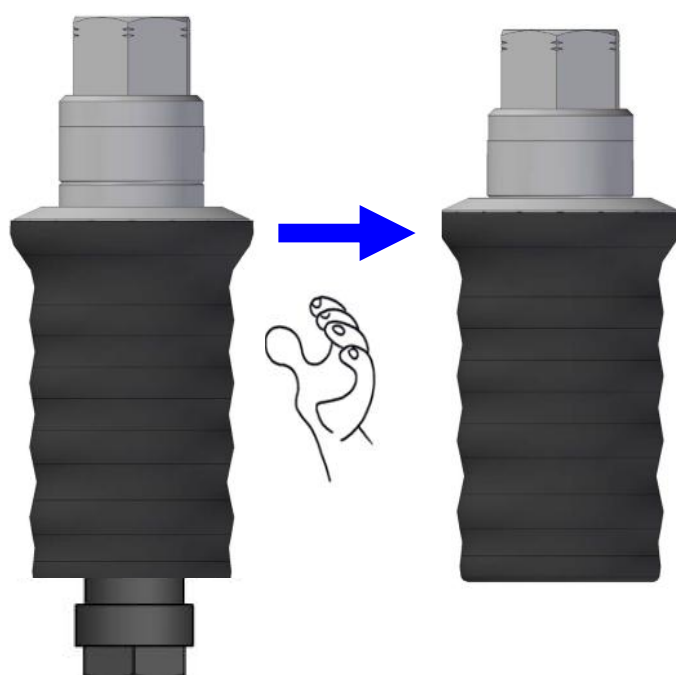
**2. Remove green sleeve retaining ring and discard.**



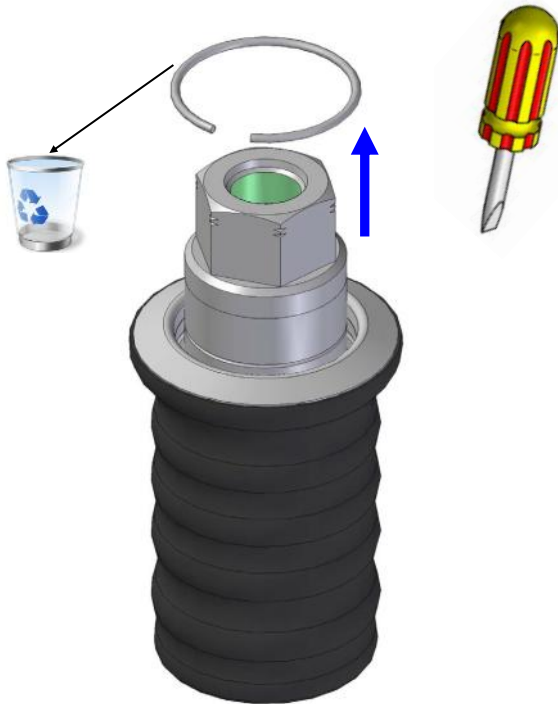
**3. Remove green sleeve.**



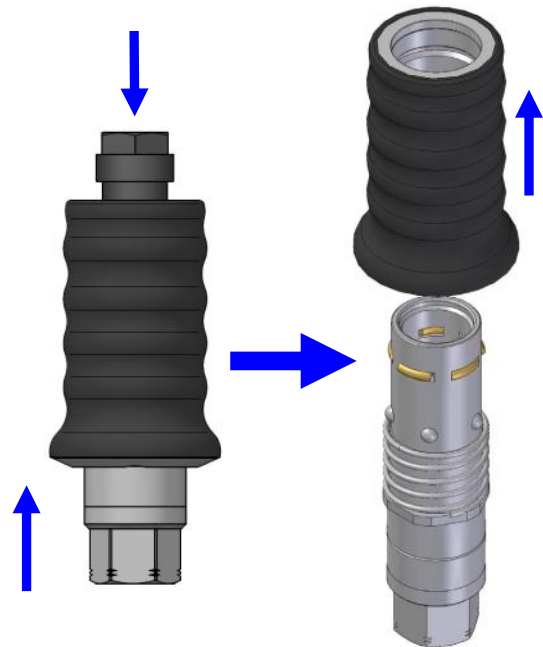
**4. Push sleeve down into the uncoupled position.**



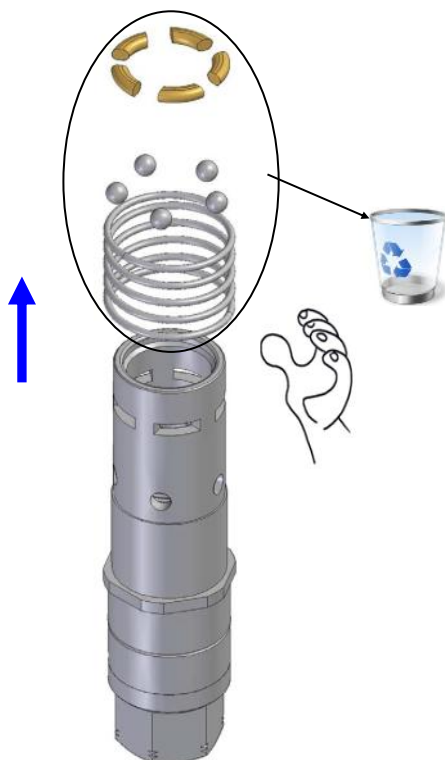
**5. Remove main retaining ring and discard.**



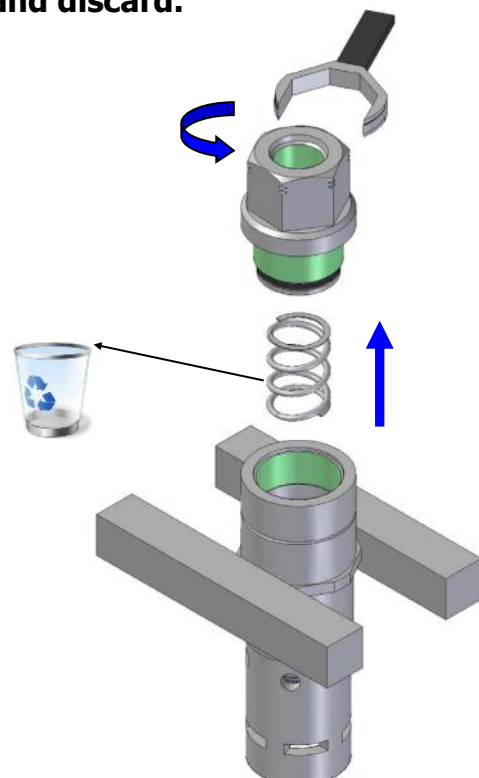
**6. Push down poppet with NC104-tool to remove outer sleeve.**



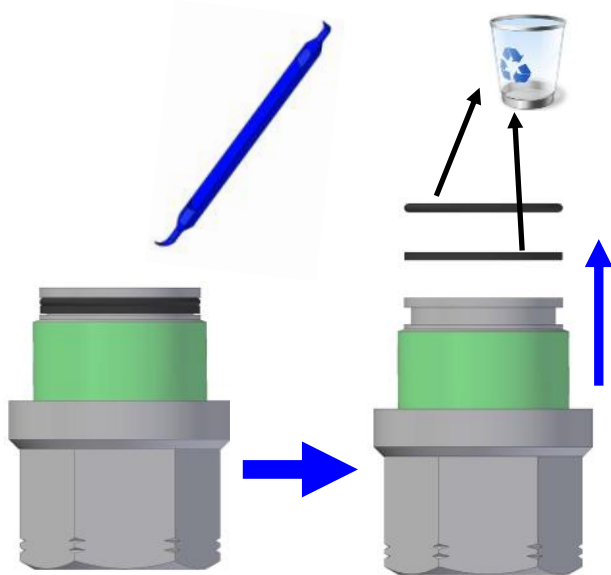
**7. Remove segments, bearings and spring and discard.**



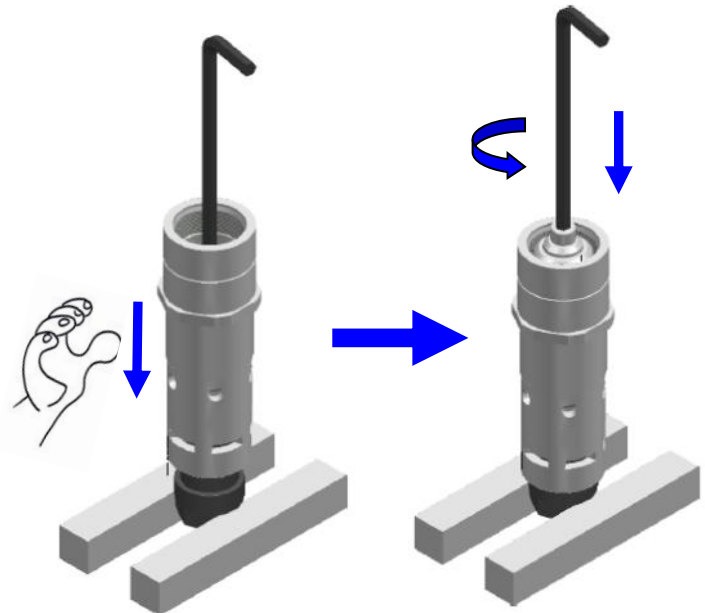
**8. Remove end-cap spring and discard.**



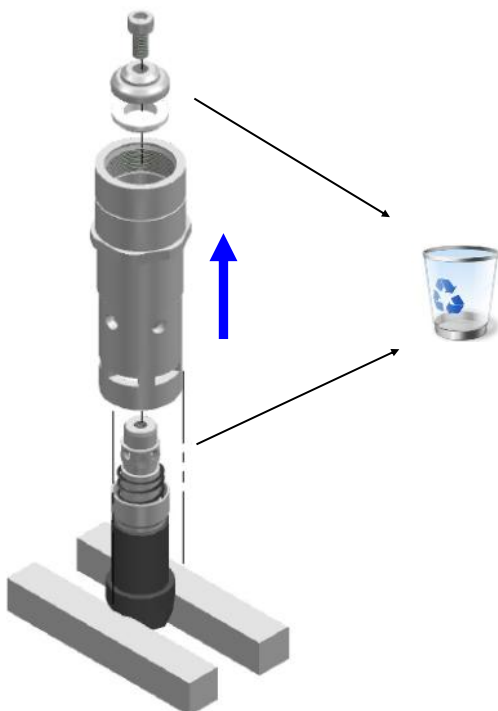
## 9. Remove end-cap O-rings.



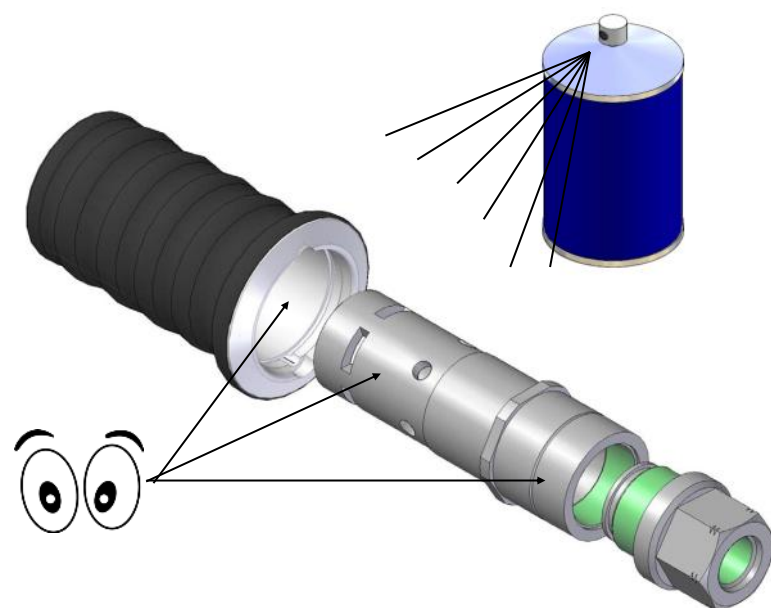
## 10. Clamp tool in a vice and push down on body, use allen key to undo poppet cap-screw.



## 11. Remove poppet assembly and discard.

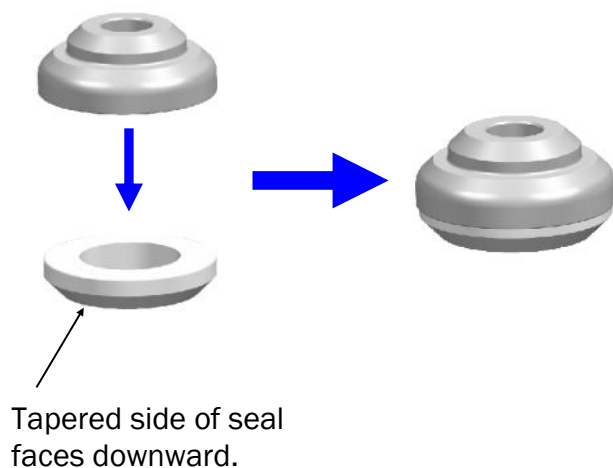


## 12. Clean and check components for excessive wear.

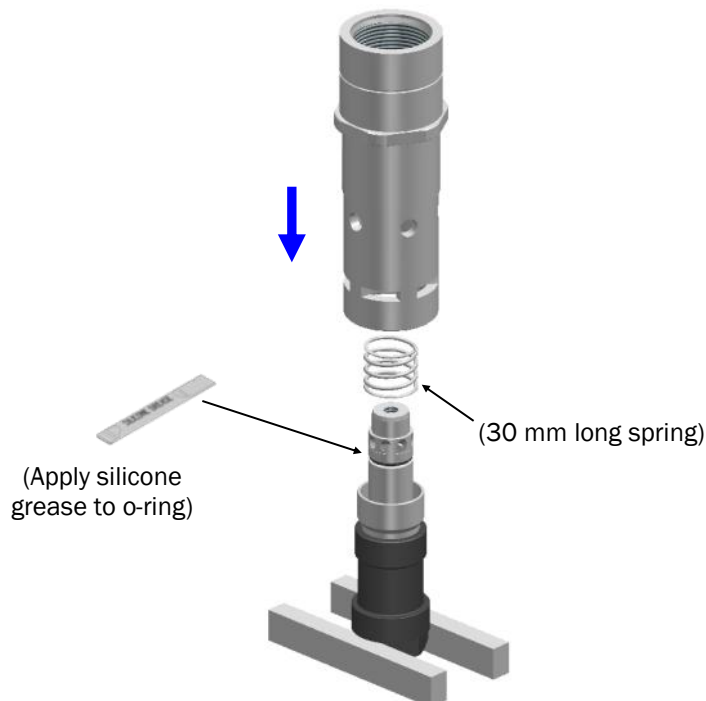




## 1. Assemble poppet seal and seal retainer.



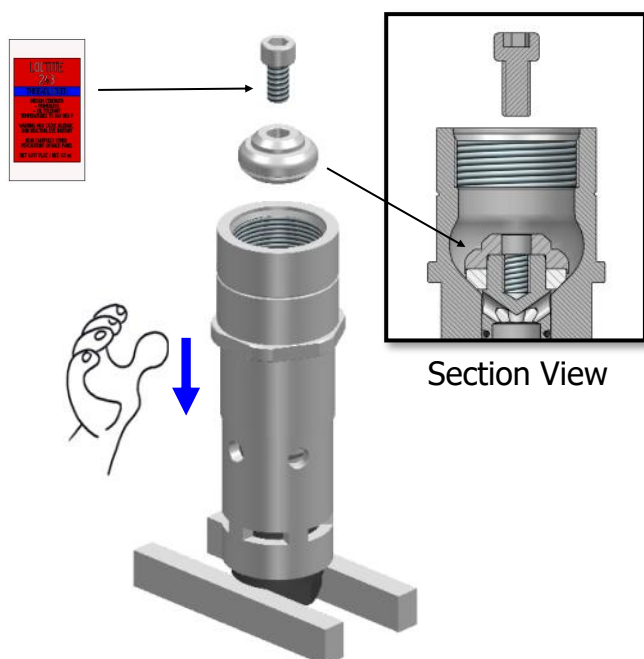
## 2. Clamp tool in vice. Place poppet in tool. Place poppet spring on poppet. Place body over poppet.



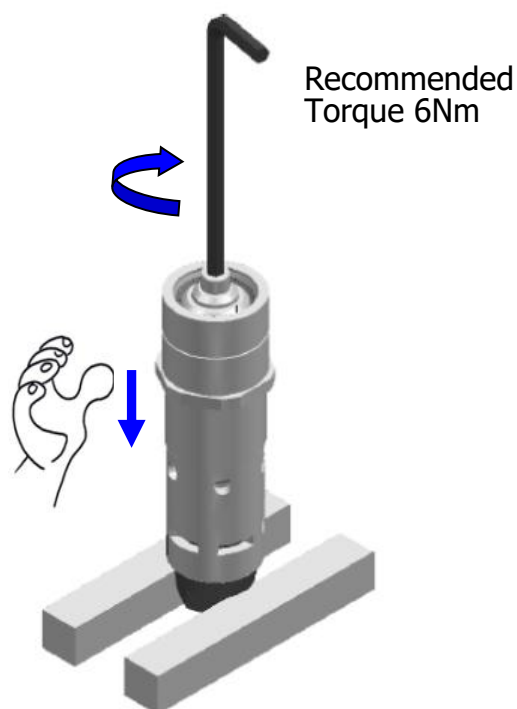
## 3. While holding body down, install poppet seal and seal retainer.



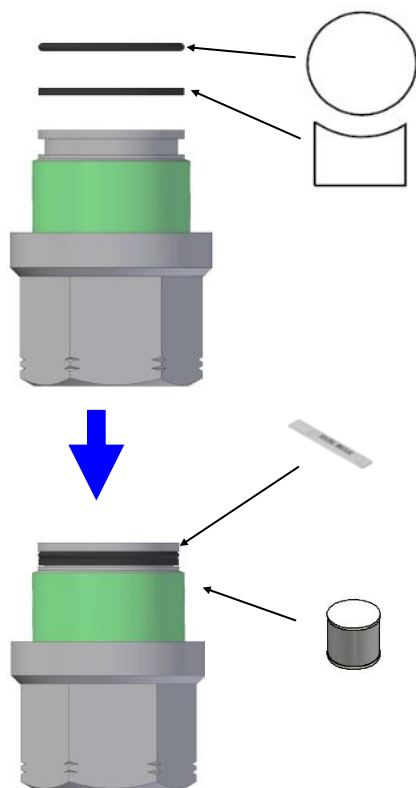
- Ensure seal faces downwards.
- Ensure seal and retainer are concentrically aligned with poppet.



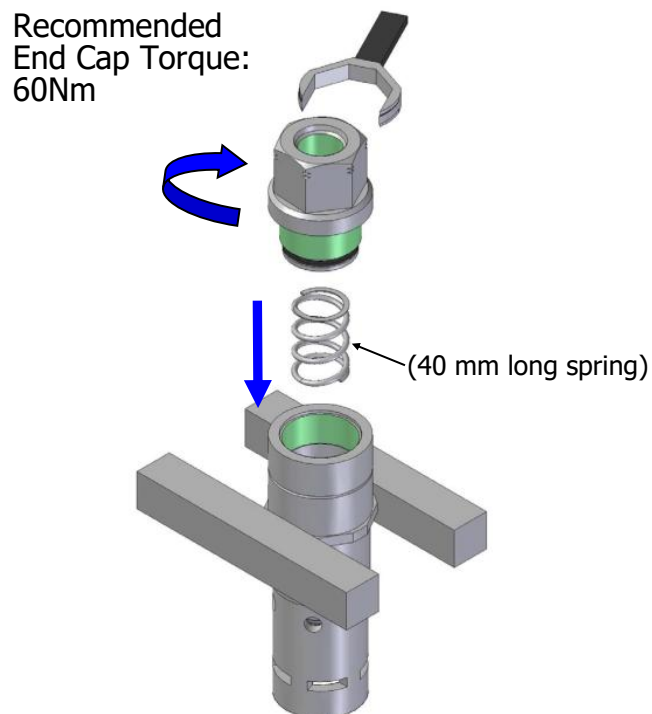
## 4. Continue holding body down. Tighten poppet cap-screw.



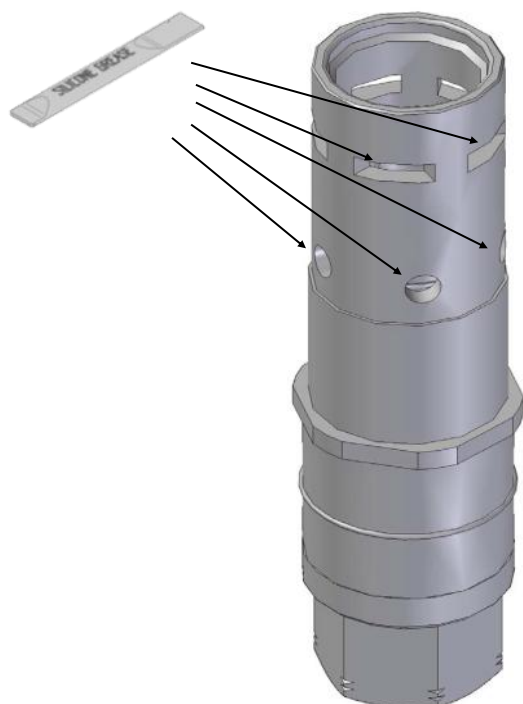
## 5. Fit cap O-ring and backup O-ring.



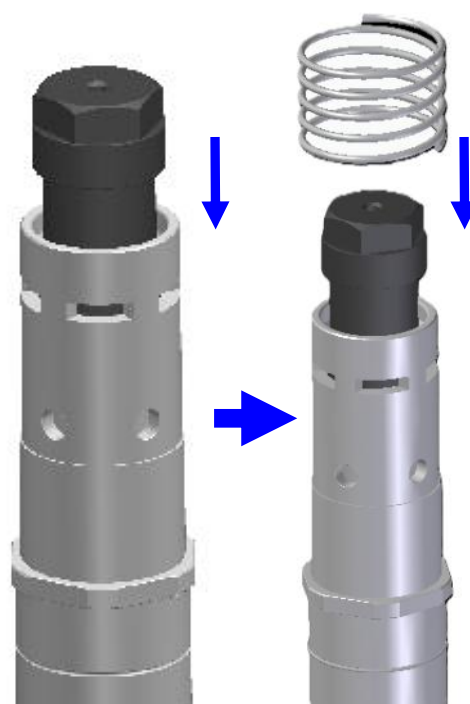
## 6. Insert spring and tighten end-cap.



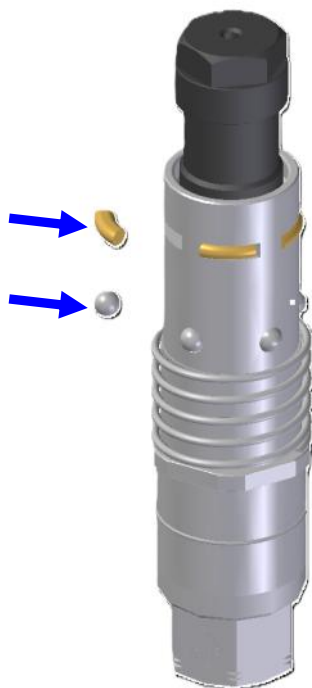
## 7. Apply silicone grease to segment and bearing locations on body.



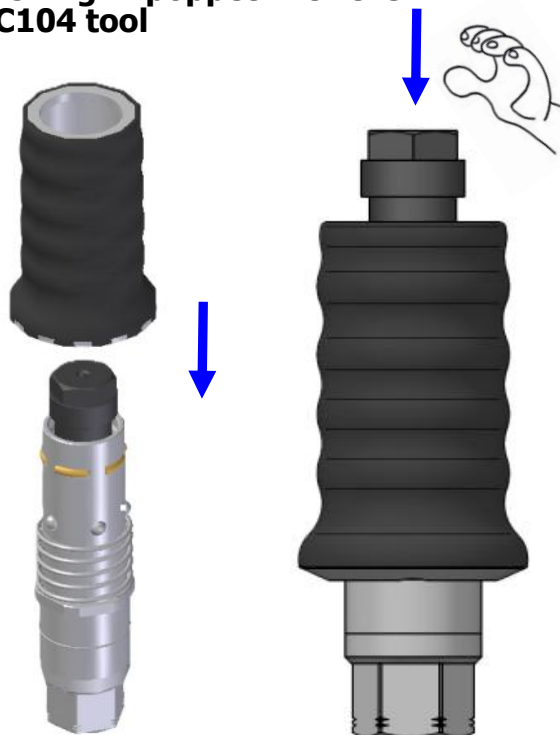
## 8. Insert NC104 tool into the nozzle, and insert sleeve spring.



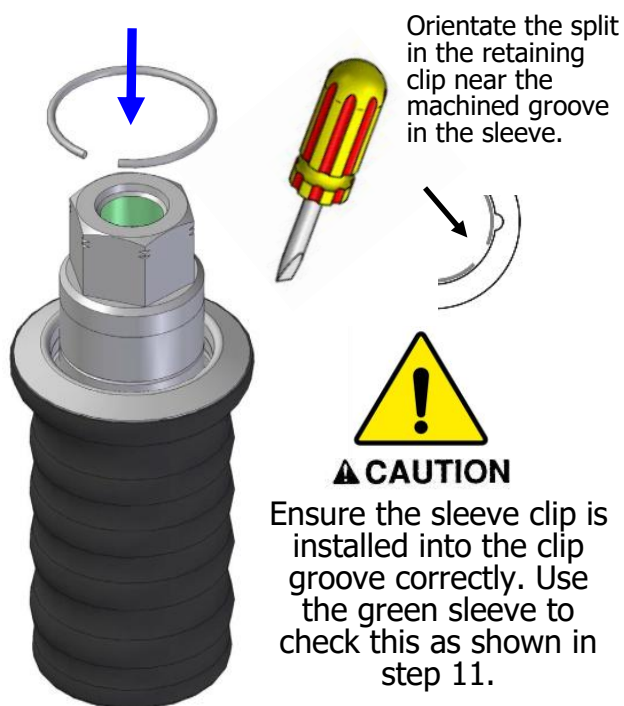
## 9. Insert bearings and segments.



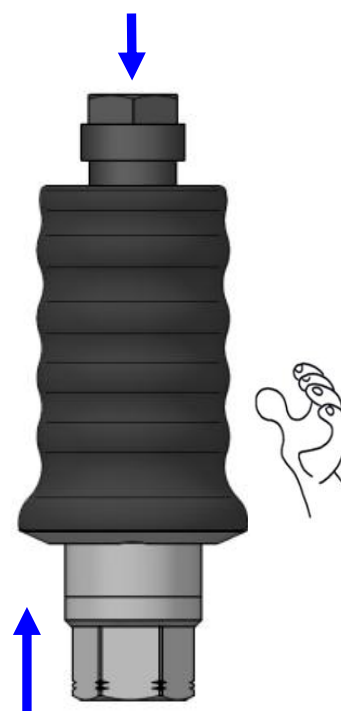
## 10. Insert outer sleeve while pushing in poppet with the NC104 tool



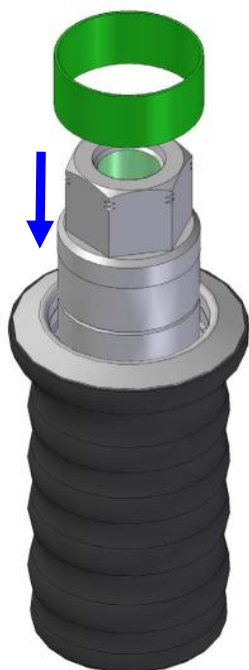
## 11. Insert main retaining ring.



## 12. Push the sleeve down using the NC104 tool



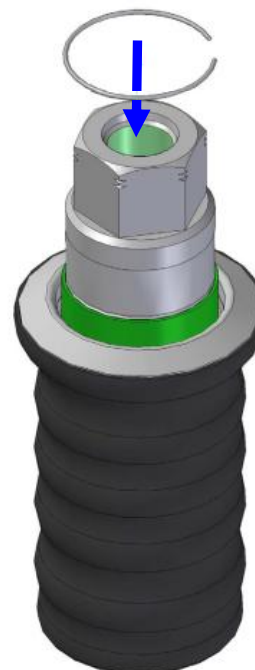
**13. Insert green sleeve. If green sleeve doesn't sit right down, main retaining ring is not seated correctly.**



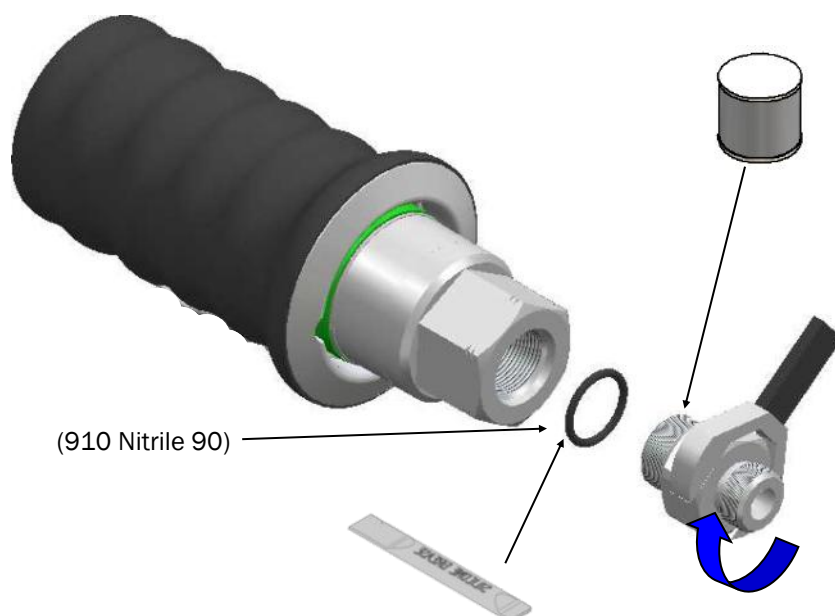
**CAUTION**

If green sleeve doesn't sit right down, the main retaining ring is not seated correctly.

**14. Insert green sleeve retaining ring.**



**15. Install inlet O-ring when fitting nozzle**



(910 Nitrile 90)

Torque the nozzle to 90Nm when tightening



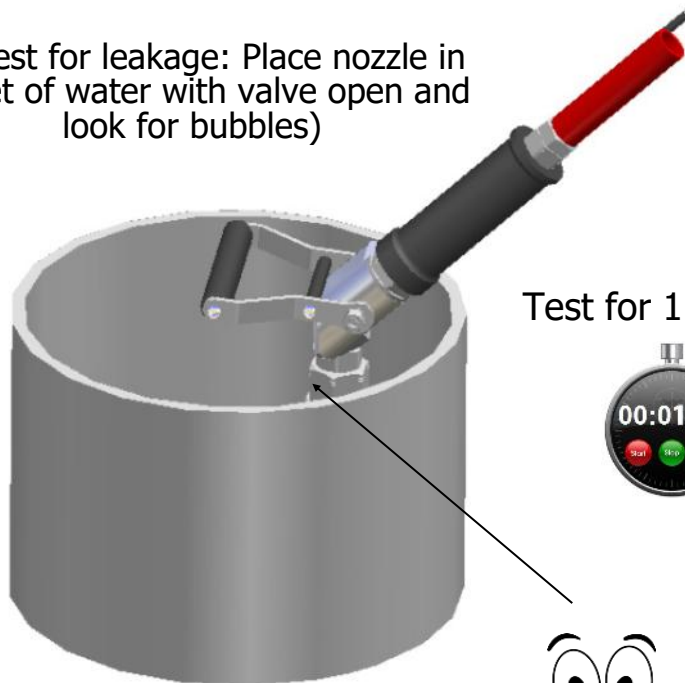
## 16. Complete. Check for leakage before using.



### ⚠ CAUTION

When testing the valve, ensure the valve is held securely and opened slowly for the first time after servicing. If any leakage occurs then stop test and do not use nozzle. Contact Oasis for help.

(To test for leakage: Place nozzle in bucket of water with valve open and look for bubbles)



Test for 1 minute



### ⚠ WARNING

OASIS NOZZLES SHOULD BE TESTED  
BEFORE RETURNING TO OPERATION.  
DO NOT USE IF LEAKAGE OCCURS.