

# **FV100 Series**

## **FV103-71 Fill Valve Vent**

### **Line Replacement**

### **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 products must be installed, operated and maintained by trained and competent personnel in accordance with all applicable local codes, rules and regulations in addition to the Oasis Instructions.

Oasis Engineering Ltd. will not be held liable in such circumstances where installation, operation and maintenance procedures were performed by incompetent personnel resulting in improper assembly, unsafe operation, equipment damage or personal injury.

Oasis recommends that all service technicians should watch the Product Servicing Video before attempting to service this part.

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)



## Warning!

**High pressure gas and gas equipment can cause serious harm to both infrastructure and personnel if safety precautions are not followed.**

**Oasis recommends considering the use of the following PPE when working with high pressure along with any other site specific health and safety requirements:**



**Foot Protection**



**Hearing Protection**



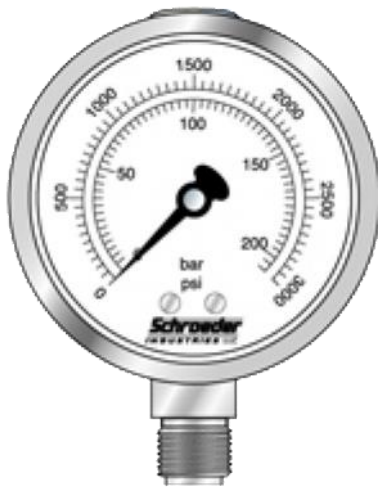
**Safety Helmets**



**Hand Protection**

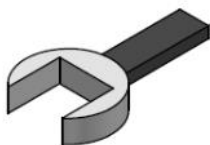


**Safety Glasses**



**Ensure the system is clean of debris, vented and isolated before any installation or servicing work is carried out.**

## Tools Required For Valve Installation



**Spanner  
(Wrenches)**



**Thread Tape  
(if using NPT  
or BSPT  
fittings)**



**Anti Seize Grease**  
- Swagelok Silver Goop  
- Omega 99  
- or similar



**Spray bottle  
(Snoop or soapy water)**



**Thread locker  
243 Loctite or  
similar**

## Service Kit Parts



1 x 1/4" Vent Tube  
Assembly



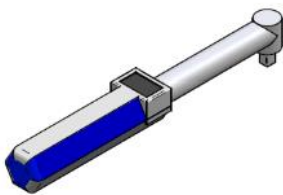
1 x Vent End Cap  
with O-ring



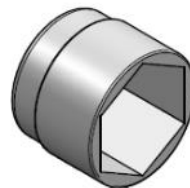
1 x Two Piece Handle Sleeve  
with Screws and Nuts

**The Complete Oasis Seal Kit must be used**

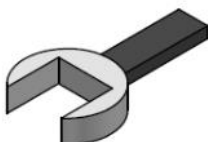
## Tools Required For Servicing



Torque Wrench



Sockets  
21mm

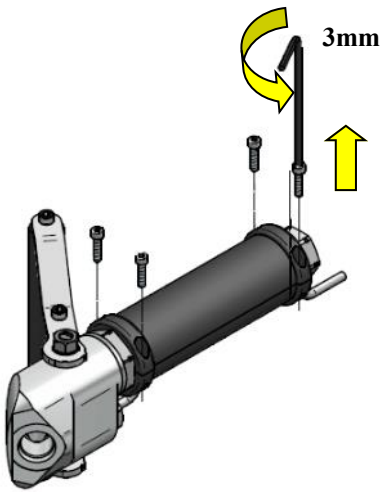


Spanner  
(Wrenches)  
19mm  
21mm

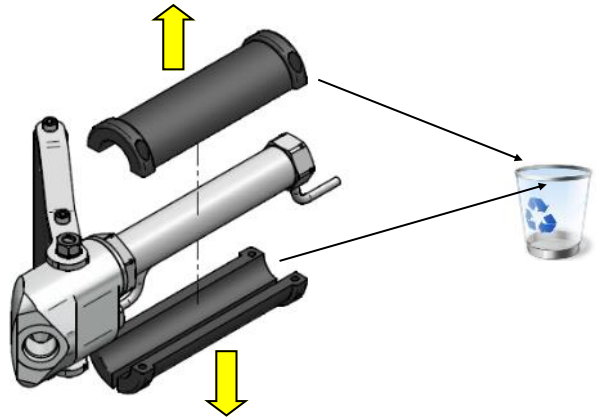


Allen Key  
3mm

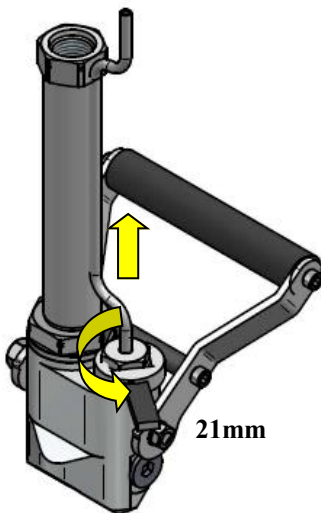
1. Remove sleeve screws.



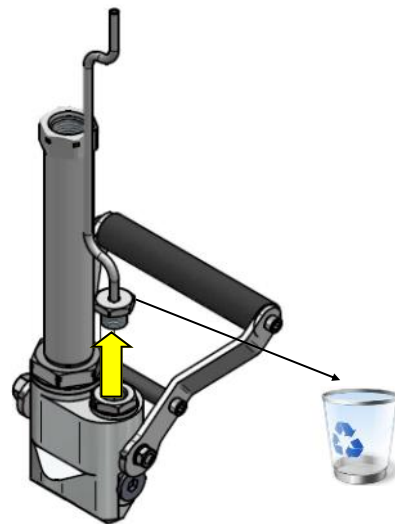
2. Remove and discard the two piece handle sleeve.



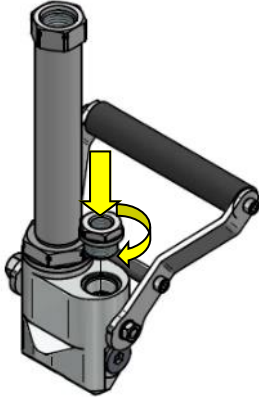
3. Remove complete vent line from the vent end cap.



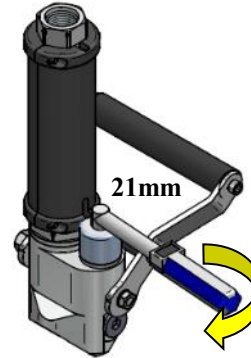
4. Discard complete vent assembly.



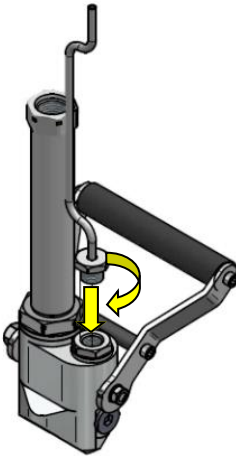
1. Insert new vent end cap.



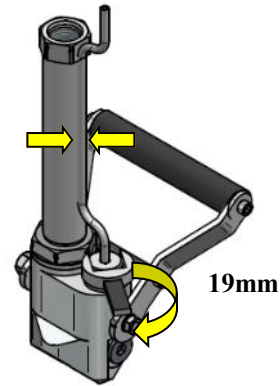
2. Torque vent end cap to 35 Nm.



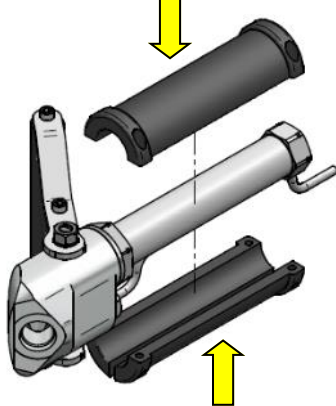
3. Insert vent tube assembly.



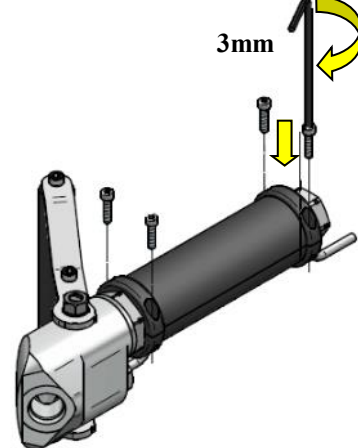
4. Tighten up keeping vent tube aligned with handle.



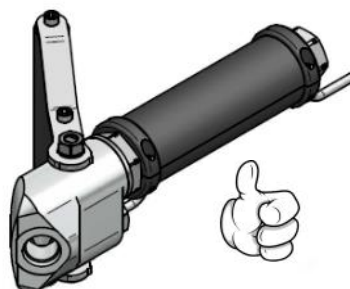
5. Place two piece sleeve.



6. Insert and tighten screws.

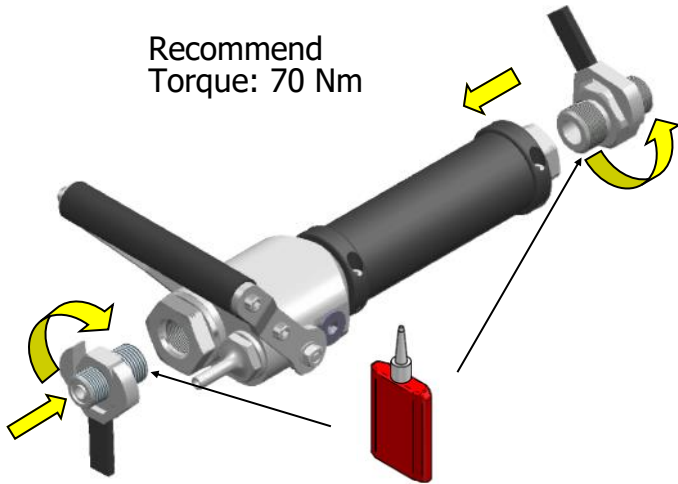


7. DONE!

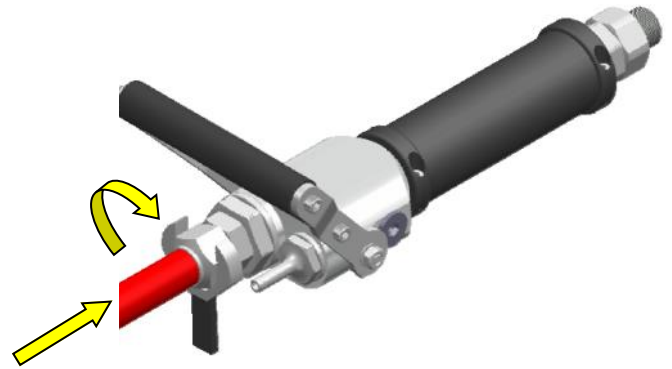




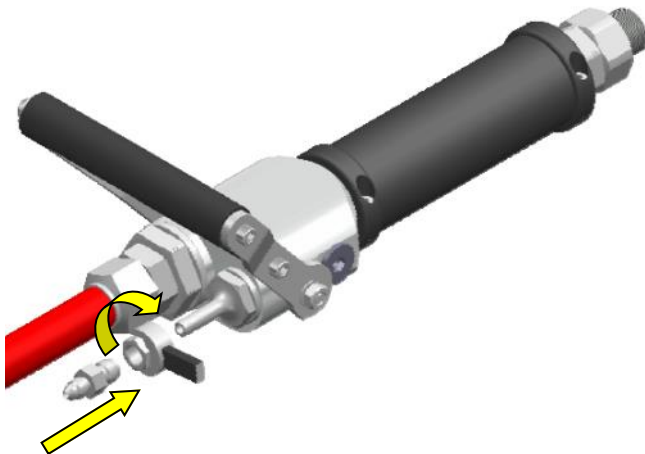
1. Apply thread locker to hose fittings and torque to 70 Nm.



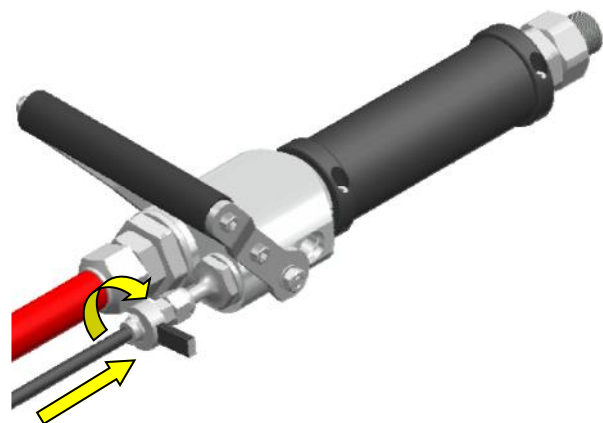
2. Attach main hose, tighten the connection to the hose manufacturers instructions.



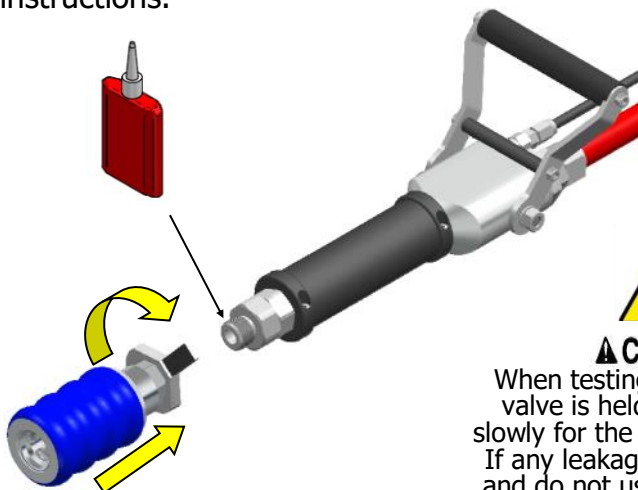
3. Attach vent fitting and tighten to manufacturers instructions.



4. Tighten vent hose to the hose manufacturers instructions.



5. Attach nozzle as per manufacturers instructions.

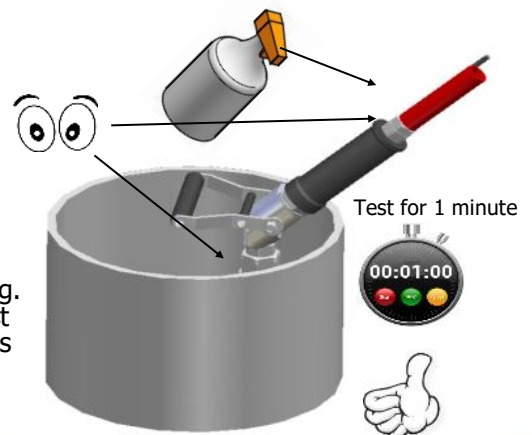


6. Test for leaks before use, place fill valve and nozzle in bucket of water with valve open and look for bubbles. Use snoop or soapy water for unsubmerged connections. Wait 24h before leak test to allow Loctite to dry.

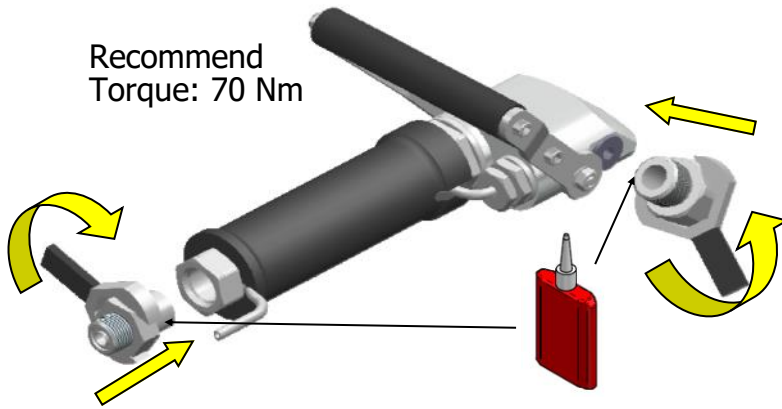


**CAUTION**

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.

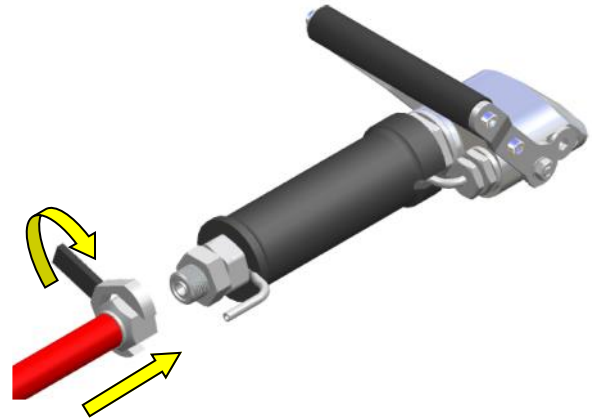


1. Apply thread locker to hose fittings and body fittings. Torque to 70 Nm.

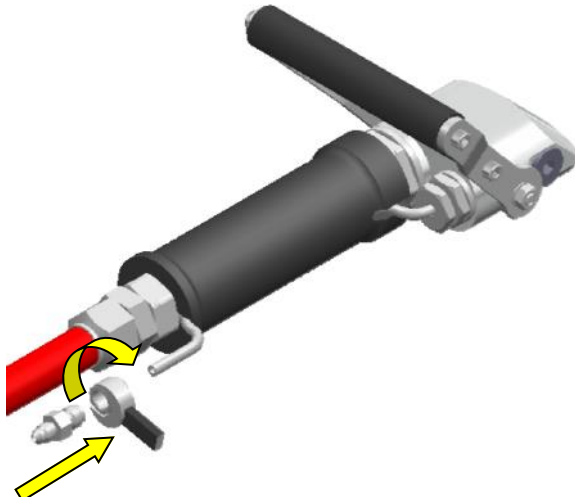


Recommend  
Torque: 70 Nm

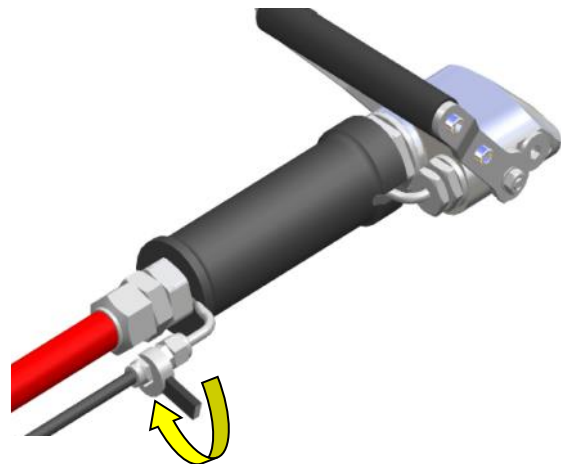
2. Connect fill hose as per manufacturers instructions.



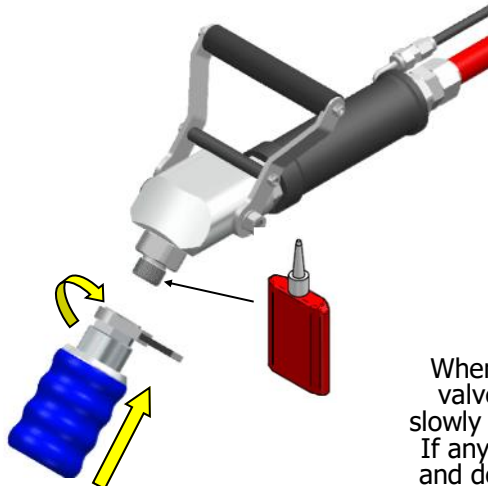
3. Attach vent fitting and tighten to manufacturers instructions.



4. Tighten vent fitting and hose to the manufacturers instructions.



5. Attach nozzle as per manufacturers instructions.

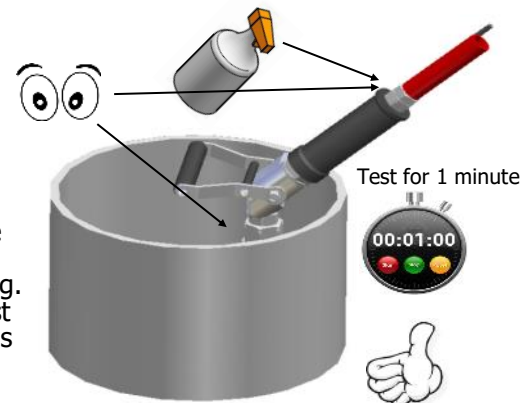


6. Test for leaks before use, place fill valve and nozzle in bucket of water with valve open and look for bubbles. Use snoop or soapy water for unsubmerged connections. Wait 24h before leak test to allow Loctite to dry.



**CAUTION**

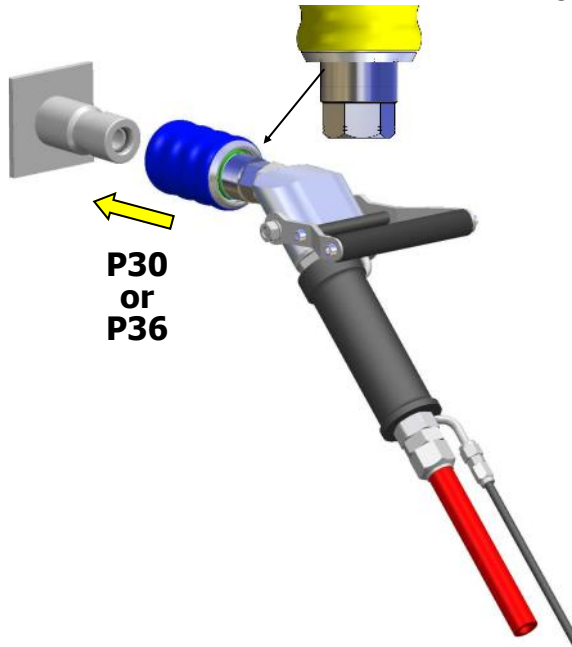
When testing the valve, ensure the valve is held securely and opened slowly for the first time after servicing. If any leakage occurs then stop test and do not use nozzle. Contact Oasis for help.



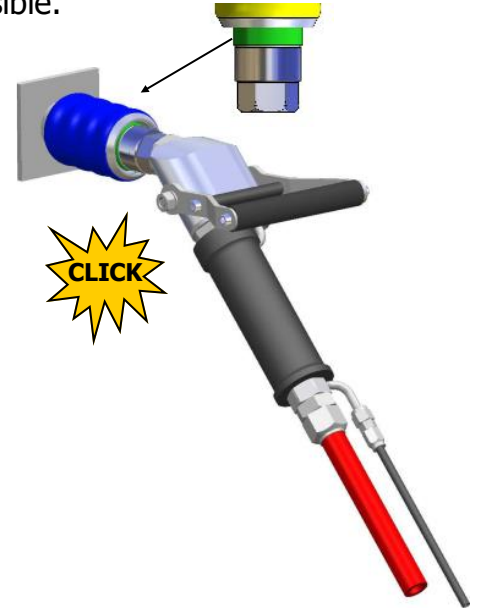
1. Pick up fill valve.



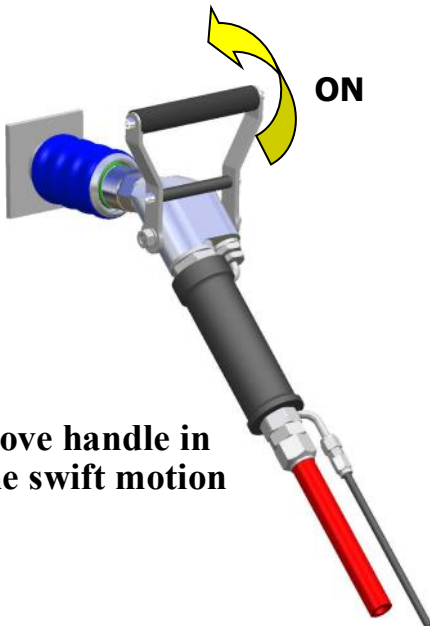
2. Push onto receptacle.



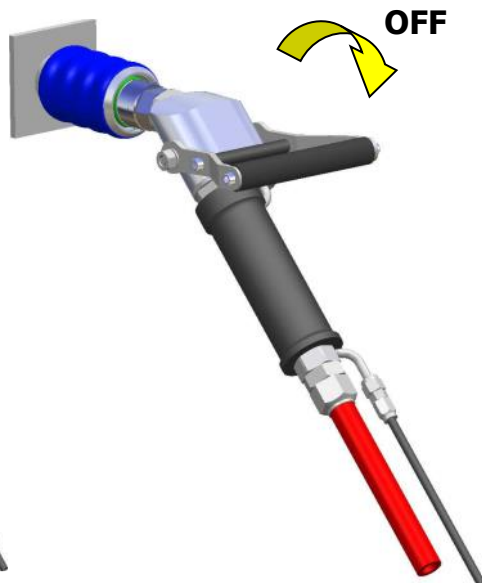
3. The green indication sleeve is visible.



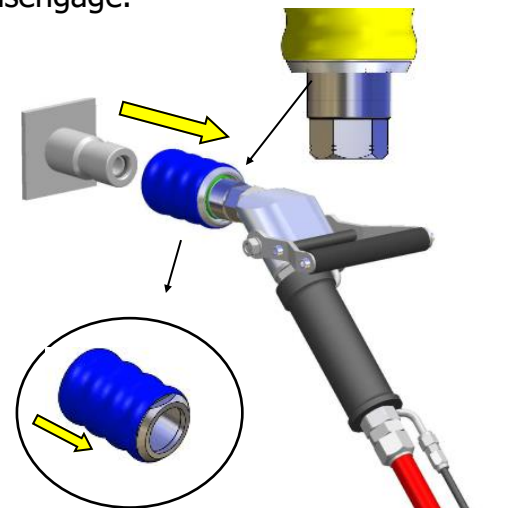
4. Lift up lever.



5. When filling is complete, shut off the lever.



6. Pull nozzle sleeve back to disengage.



**Move handle in  
one swift motion**