# Hub Installation Instructions

# The Luneta Hub

INSTALLATION INSTRUCTIONS

## Warnings & Disclaimers:

- For use with mineral and synthetic oils that are compatible with fluorocarbon elastomers *(Viton™)*, epoxy powder coated aluminum, stainless and zinc-plated steel
- Do not use cleaning solvents that are incompatible with fluorocarbo n elastomers *(Viton™)*, epoxy powder-coated aluminum, stainless and zinc-plated steel.
- Install the Hub on machine port locations that are a safe distance from moving machine parts and vehicles.
- Luneta LLC is not responsible for damages associated with incorrectly installing the Hub or for improper use as outlined in this manual or at luneta.com.

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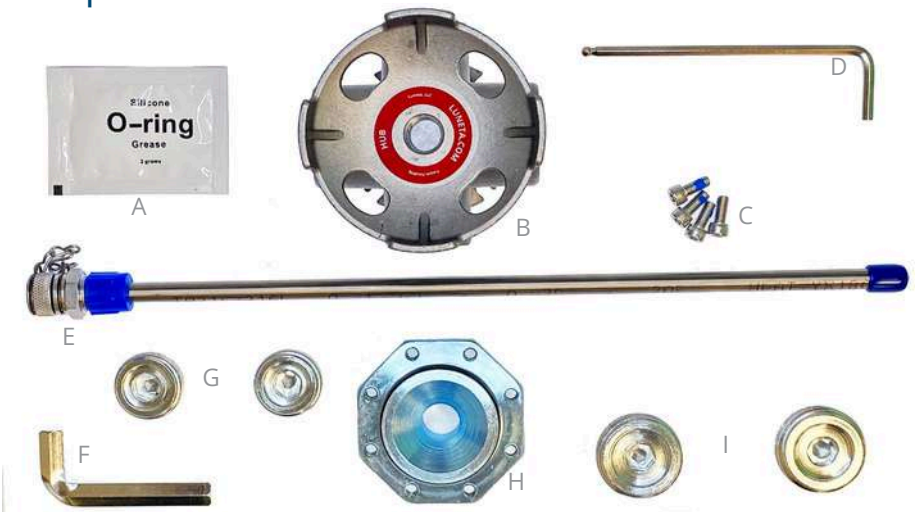
## Components:




A - *(1)* O-ring Lubricant
B - *(1)* Hub Body
C - *(4)* Bolts
D - *(1)* 5/32" Hex Key
F - *(1)* 3/8" Hex Key
G - *(2)* 3/4" NPT Plugs with Pilot Tube
E - *(1)* Sample Valve
H - *(1)* Connector
I - *(2)* 1" NPT Plugs

## Prior to Installation:

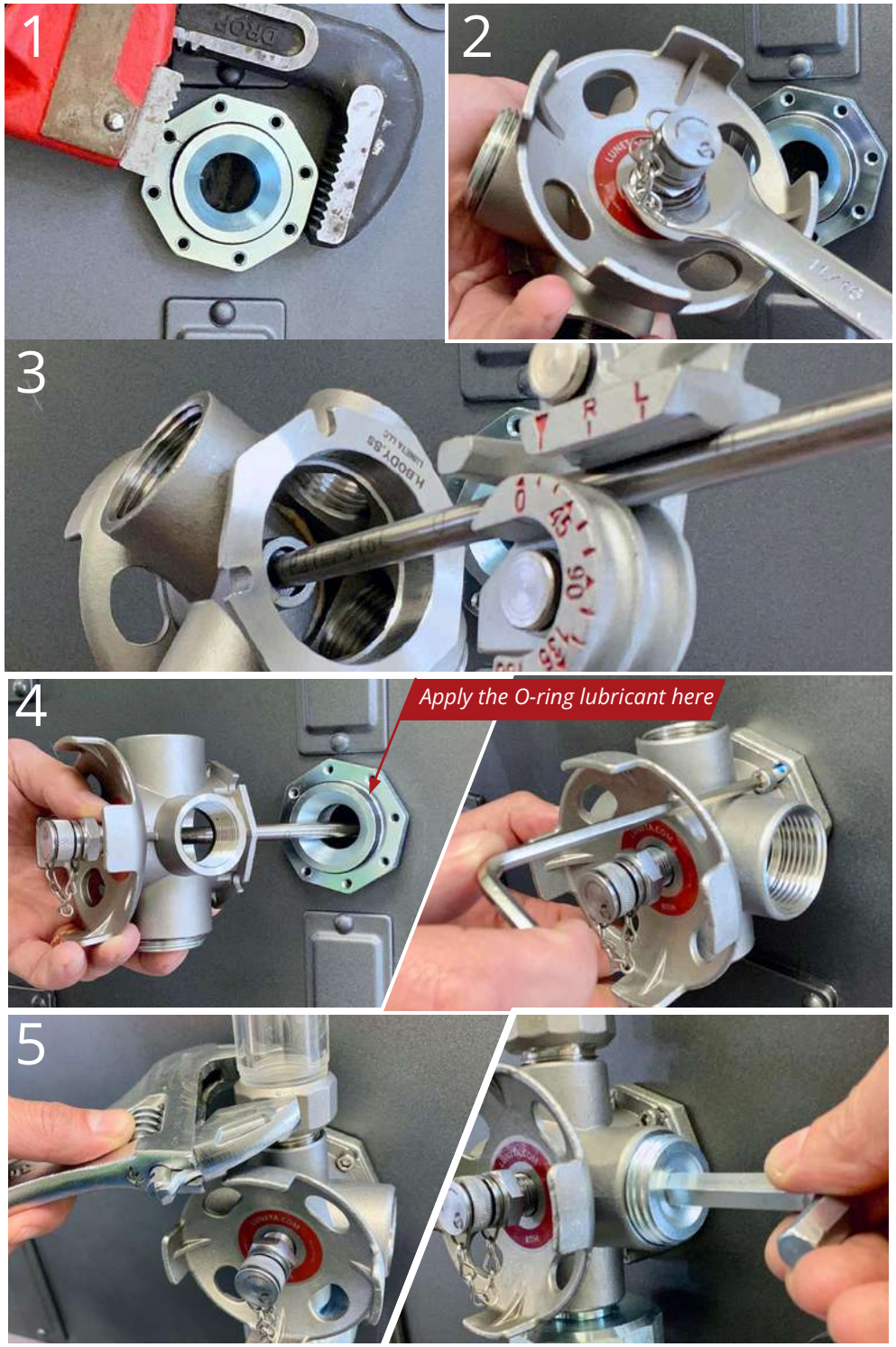
Check inside all components for any debris. If debris is present, use compressed air to remove.

## How to Use:

The Luneta Hub allows for a multitude of devices *(e.g., oil level sight glasses, filter cart quick connects, BS&W bowls, etc)* to be connected to a single drain port. The Hub features two 1-inch NPT ports, two ¾-inch NPT ports and a shielded sample valve with a 12-inch pilot tube for conveniently pulling samples from any "live zone" within your machine.

## Required Tools:

- Tube bender for ¼-inch *(5mm)* diameter tube
- 2.5-inch Wrench
- 11/16-inch Wrench
- Thread-sealing compound to tape
- Oil rags
- Oil pan or bucket for catching oil during installation




## Step 1 – Install Connector

Apply thread sealer, then tightly thread the connector into the port hole of your machine using a 2.5-inch wrench.

## Step 2 – Install Sample Valve

Apply thread sealer, then tightly thread the sample valve with the pilot tube into the front port of the hub body using 11/16-inch wrench. IMPORTANT: *DO NOT BEND THE PILOT TUBE BEFORE YOU INSERT IT INTO THE HUB BODY. Be sure to remove the plastic blue caps on the threads and the pilot tube tip.*

## Step 3 – Bend Pilot Tube

Choose a bend location and angle which place the tip of the pilot tube within your machine for proper sampling. Before bending, identify the best orientation of the Hub body. Note that the Hub body has two 1-inch NPT lateral ports and two ¾-inch NPT lateral ports. Also note that the Hub body can be installed in eight positions around the connector.

## Step 4 – Install Hub Body onto Connector

Apply the supplied O-ring lubricant to the O-rings of the connector. Push the Hub body onto the connector so the connector is fully nested inside the Hub body. Ensure that both O-rings are properly seated. Use the supplied bolts and 5/32-inch hex key to tighten the Hub body onto the connec tor.

## Step 5 – Seal Lateral Ports

Install compatible oil level sight glasses, BS&W bowls, quick connects, etc., to the lateral ports. Be sure to follow manufacturer's suggested instructions to ensure proper installation. Apply thread sealer to the supplied plugs and seal the remaining open lateral ports with the supplied 3/8-inch hex key.

## Step 6 – Final Check

Confirm that all threaded components are tight. Slowly replenish the machine with oil and check for leaks. Retighten and/or reseal threaded components if any leaks occur.