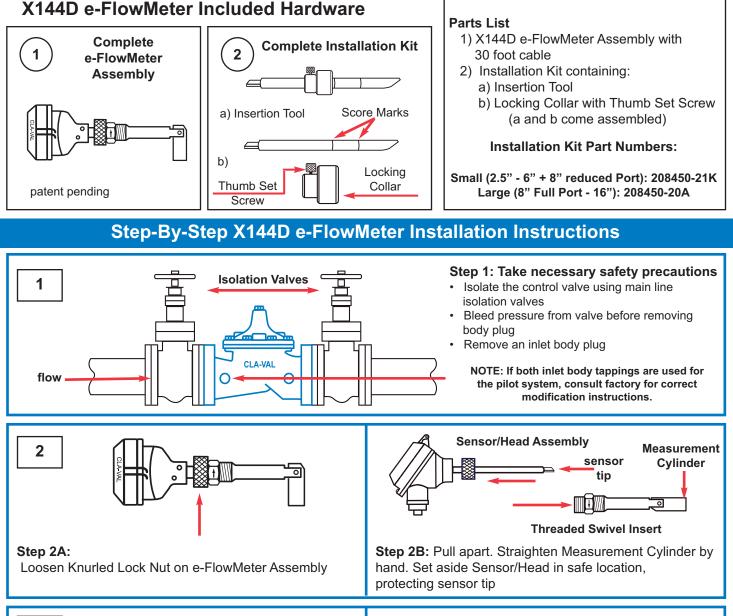
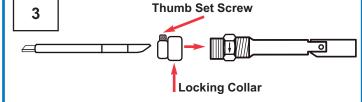
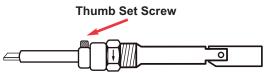
X144D e-FlowMeter **Quick Start Installation & Removal Instructions**

X144D e-FlowMeter Included Hardware



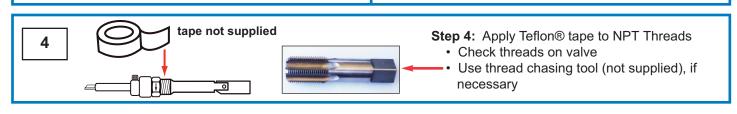


Step 3A: Screw Locking Collar on straight threads. Insert



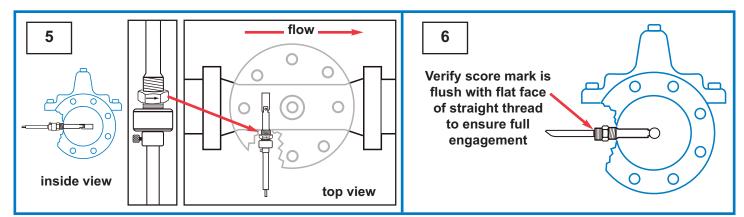
Step 3B: Tighten Thumb Set Screw

angled end of provided tool as shown, until it stops

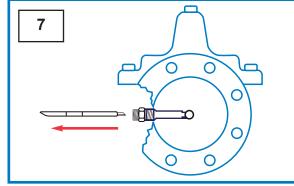


CLA-VAL Quick Start Installation & Removal Instructions

Step-By-Step X144D e-FlowMeter Installation Instructions (continued)

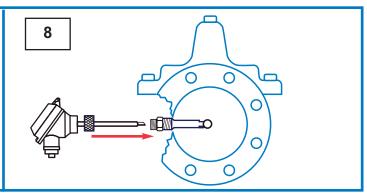


Step 5: Insert straightened Swivel Insert/Measurement Cylinder Assembly into valve, orient arrow on wrench flat to point downstream

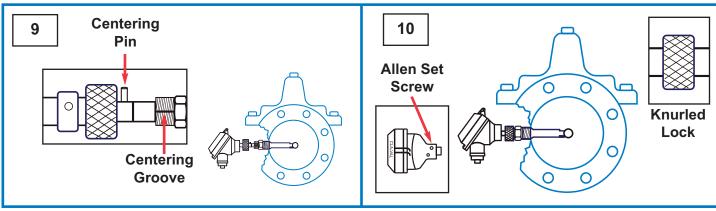


Step 7: Remove tool from Threaded Swivel Insert

Step 6: Loosen Thumb Set Screw. Remove Locking Collar from tool. Remove tool and re-insert opposite end into Swivel Assembly. Engage the tool and push firmly to orient Measurement Cylinder 90° into flow path



Step 8: Insert tip of e-FlowMeter Sensor/Head Assembly into Threaded Swivel Insert

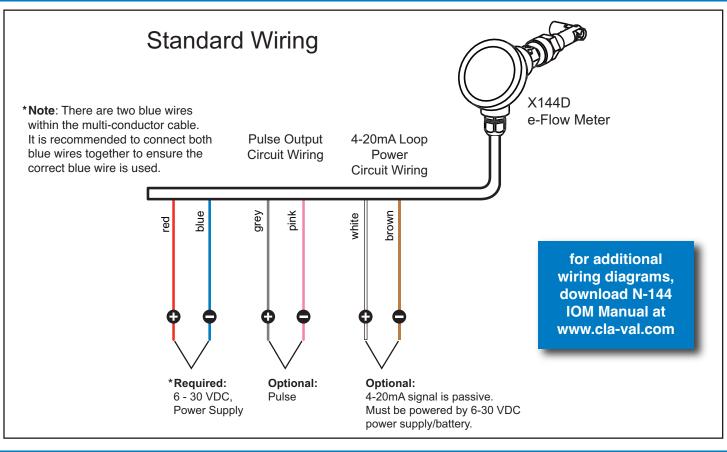




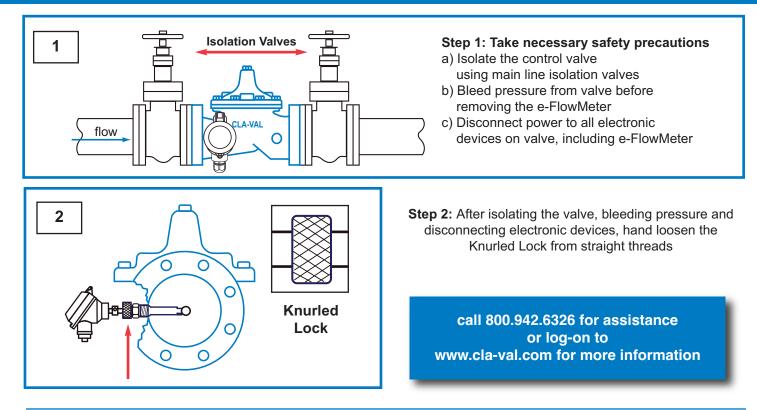
Step 10: HAND TIGHTEN Knurled Lock onto straight threads. Tighten Allen Set Screw with M3 Allen Wrench to lock Sensor Head Assembly.

Proceed in accordance with Wiring Diagram

CLA-VAL Quick Start Installation & Removal Instructions

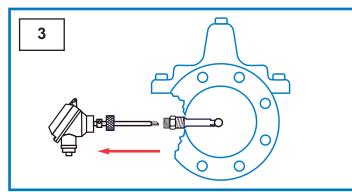


Step-By-Step X144D e-FlowMeter Removal Instructions



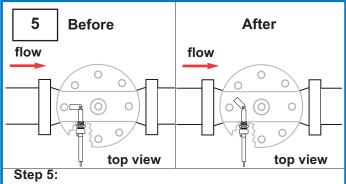
CLA-VAL X144D e-FlowMeter Quick Start Installation & Removal Instructions

Step-By-Step X144D e-FlowMeter Removal Instructions (continued)

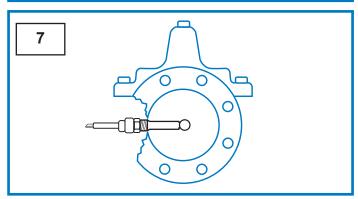


Step 3:

- Remove the e-FlowMeter Sensor/Head Assembly by pulling straight outward, being careful not to hit the sensor tip on the Threaded Swivel Insert tube
- Set Sensor/Head Assembly aside, taking care to protect the sensor tip

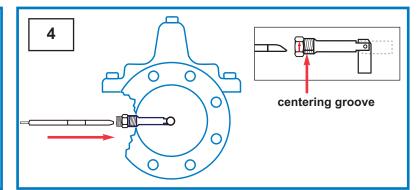


 Once inserted into the Threaded Swivel Insert tube, the Installation Tool will engage the top face of the Measurement Cylinder and force it to the 45° position, as shown above



Step 7:

• Once engaged, use light force to straighten the measurement cylinder, and then secure the Installation Tool in place with Locking Collar in locked position



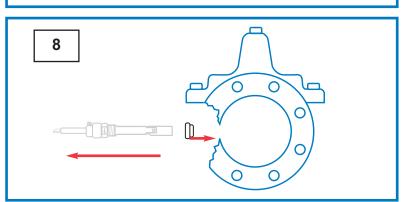
Step 4:

• Orient the Installation Tool so that the bevel is facing downstream, away from the centering groove as shown in detail drawing, and insert into the Threaded Swivel Insert



Step 6:

- Slide Installation Tool straight out, then rotate 180° so that the bevel is facing upstream of the valve, which is now facing the same direction of the centering groove, see above
- The lip of the Installation Tool will engage the inside of the Measurement Cylinder as shown in photo



Step 8:

- Remove Threaded Swivel Insert from the valve tapping with the Measurement Cylinder straightened
- · Insert body plug into tapping while servicing the e-FlowMeter

