



**INNOVATIVE
PRODUCTS**
Oklahoma City, Oklahoma USA



THE QUAD "0" EMISSIONS SOLUTION
FOR DIAPHRAGM OPERATED VALVES

ROTARY TO LINEAR TRANSLATOR

INSTALLATION GUIDE

R2L

PATENT PENDING

R2L INSTALLATION PROCEDURE

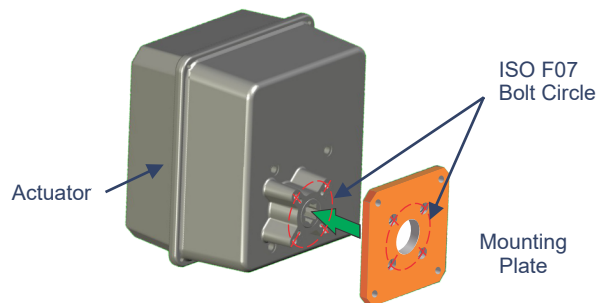
R2L Actuator Installation – Quick Checklist

Electrical & Prep Steps

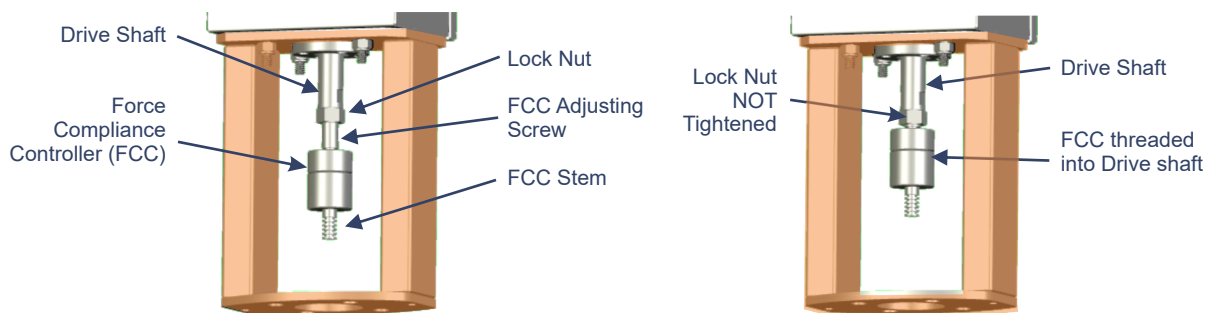
1. ☐ Connect actuator wiring.
2. ☐ Confirm actuator is fully closed (0.0% open).

Mechanical Setup

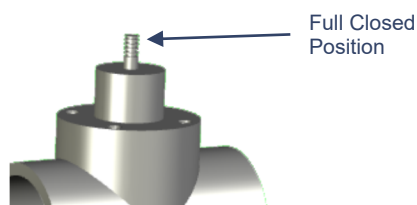
3. ☐ Mount Actuator Mounting Plate on the Actuator and secure with the screws (4 ea M8 x 1.25 x 20mm) provided.



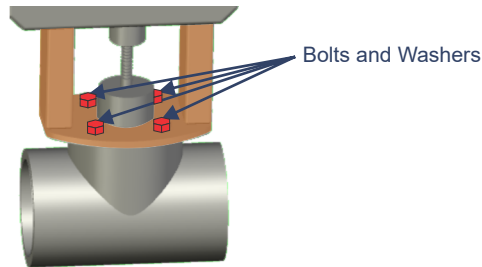
4. ☐ Loosen Lock Nut and thread Force Compliance Controller (FCC) all the way into the R2L Drive Shaft.



5. ☐ Confirm the stem on the valve is fully closed.

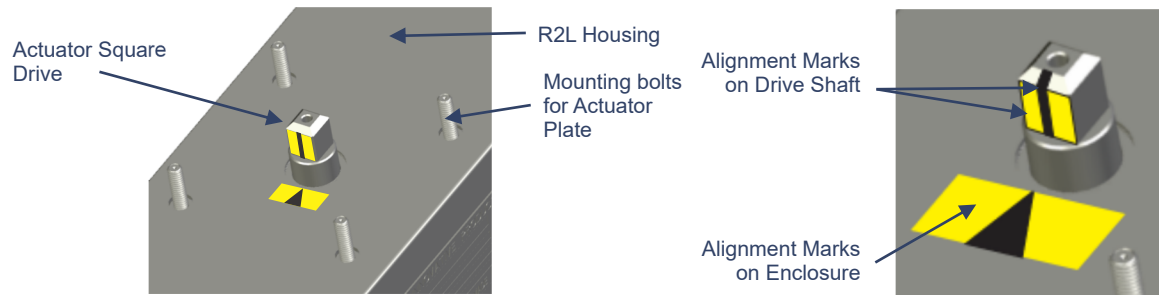


6. [] Install R2L ASSEMBLY on valve Body (4X Bolts + Washers).



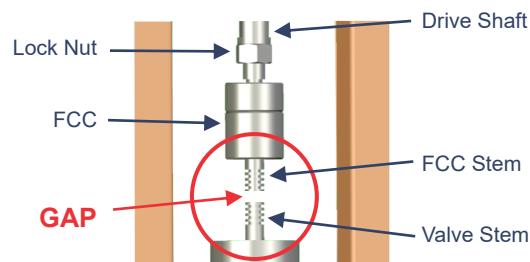
Alignment & Pre-Engagement

7. [] Rotate actuator square drive indicator mark to align with closed mark on housing.

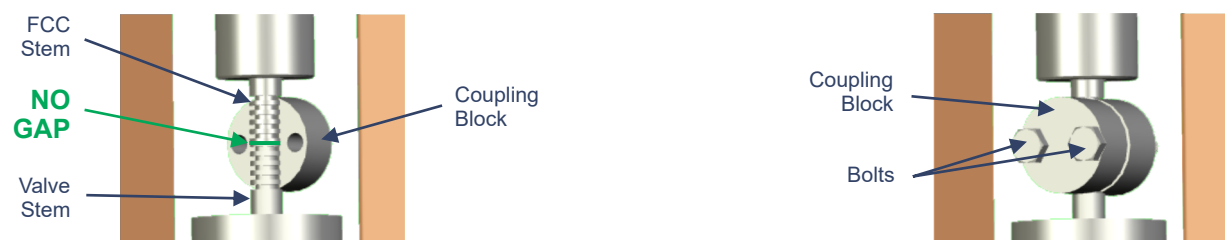


NOTE: AFTER ADJUSTING FCC VERIFY THE ALIGNMENT MARKS ARE PROPERLY ALIGNED

8. [] If there's a gap between FCC and valve stem, thread FCC out until it touches valve stem
DO NOT TIGHTEN THE LOCK NUT

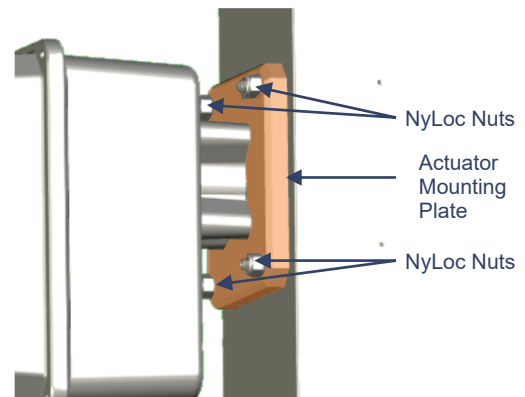
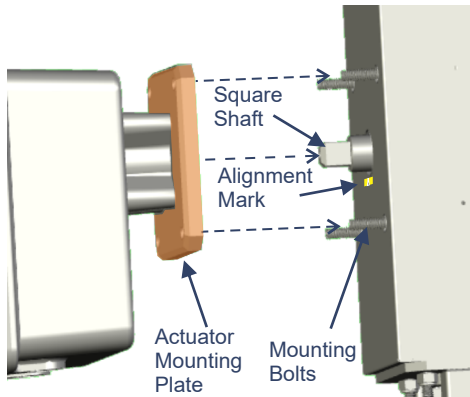


9. [] Install Coupling Block, HAND-TIGHTEN bolts.



Final Assembly & Calibration

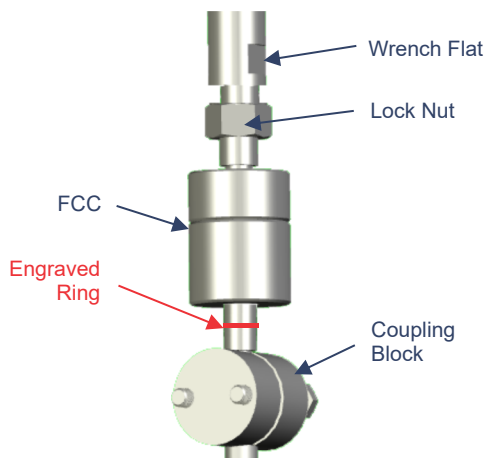
10. [] Attach actuator to R2L, it should slid on, there should be NO valve stem movement, secure with washer and 4 ea 5/16-18 Nyloc nuts provided in install kit.



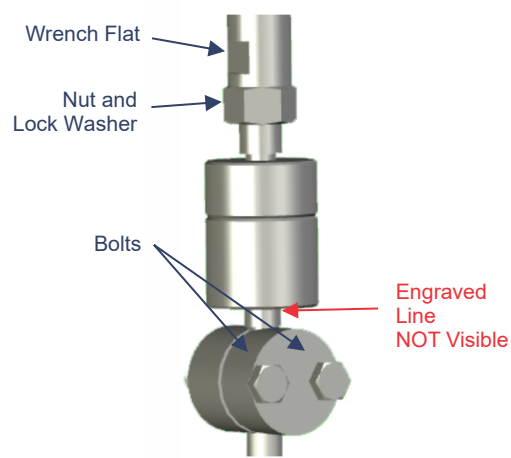
11. [] Hold R2L shaft on wrench flats and turn FCC until engraved ring on the stem coincides with the bottom of the FCC. This step sets a predetermine force applied slowly to the valve seat preventing damage and fluid leakage.

12. [] Tighten FCC lock nut.

13. [] Tighten Coupling Block bolts



Closed Position
Before Final Adjustment



Closed Position
After Final Adjustment

Final Check

14. [] Power the system and verify full open and full closed movement. The engraved ring on FCC stem is visible when the valve is opening. The ring will disappear when the valve is closed.

15. [] **Assembly complete — calibrated and ready to go. Nice work!**



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