



**INNOVATIVE
PRODUCTS**
Oklahoma City, Oklahoma USA

INSTALLATION GUIDE



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ROTARY TO LINEAR TRANSLATOR

R2L

PATENT PENDING

R2L INSTALLATION PROCEDURE

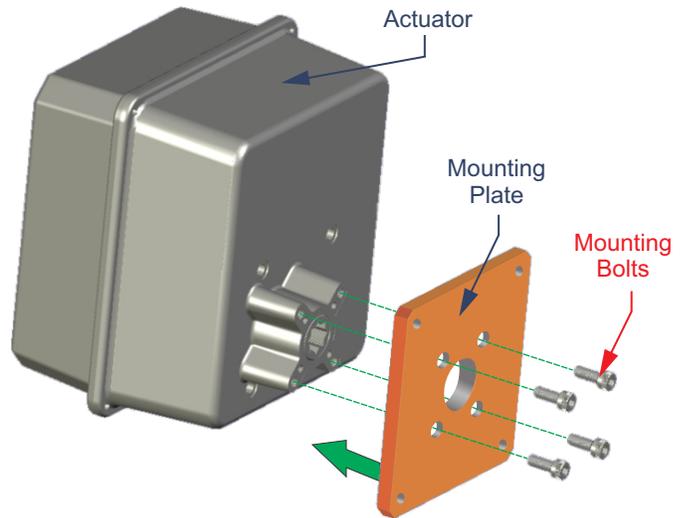
R2L Actuator Installation – Quick Checklist

Electrical & Prep Steps

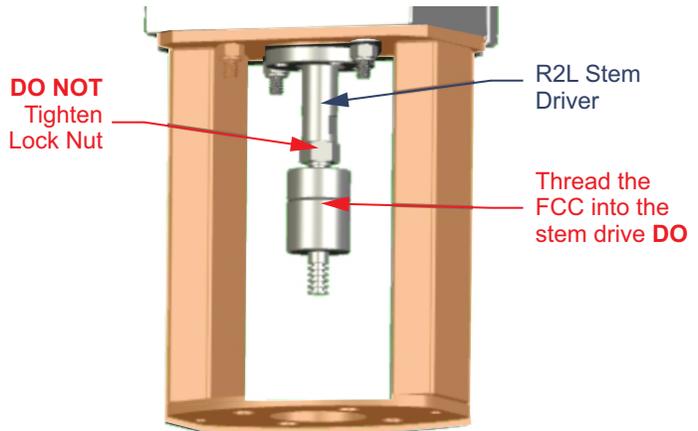
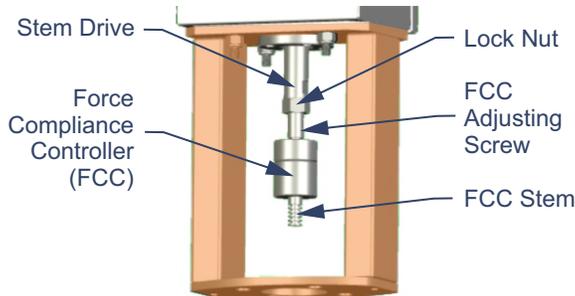
1. Connect actuator wiring
2. Confirm actuator is fully closed (0.0% open)

Mechanical Setup

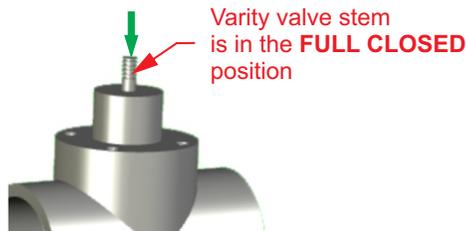
3. Mount Actuator Mounting Plate on the Actuator by securing it with the bolts provided.



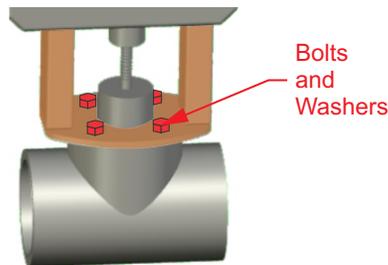
4. Loosen Lock Nut and thread Force Compliance Controller (FCC) all the way into the R2L Stem Drive.



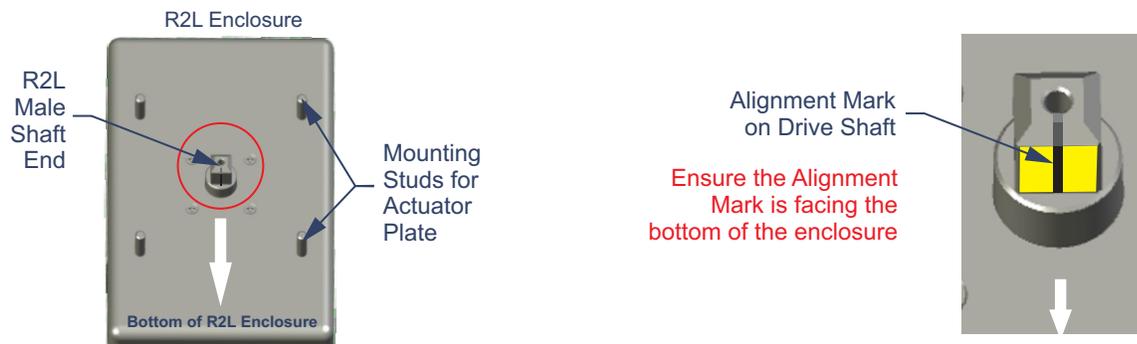
5. Confirm the stem on the valve is fully closed.



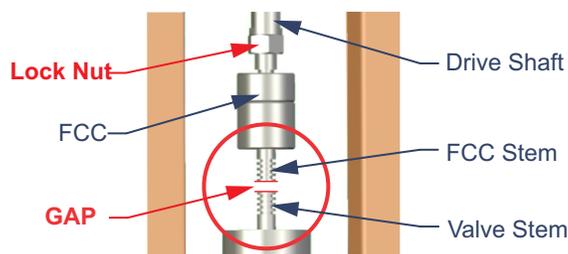
6. Install R2L ASSEMBLY on valve Body with the four bolts and washer provided



7. Locate the R2L Male shaft end on the backside of the assembly, it will be centered between the four mounting studs.

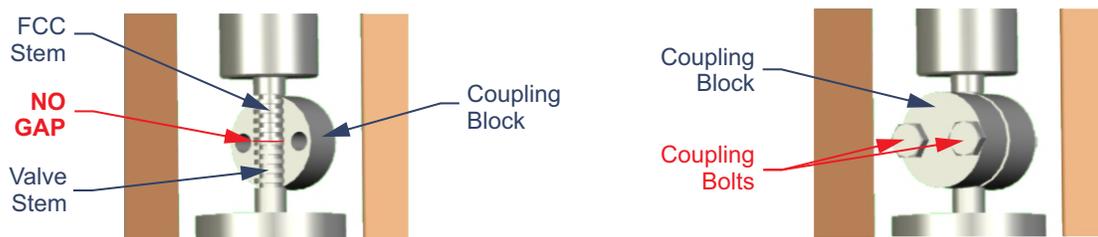


8. Adjust the FCC downward by threading it out of the R2L Stem Driver. The correct position is just touching the top of the valve stem with **NO GAP** between FCC and valve stem. **DO NOT TIGHTEN THE LOCK NUT** on the FCC



NOTE: After adjusting FCC verify the alignment mark is properly aligned as indicated in step 7

9. Install Coupling Block, **HAND-TIGHTEN** bolts.

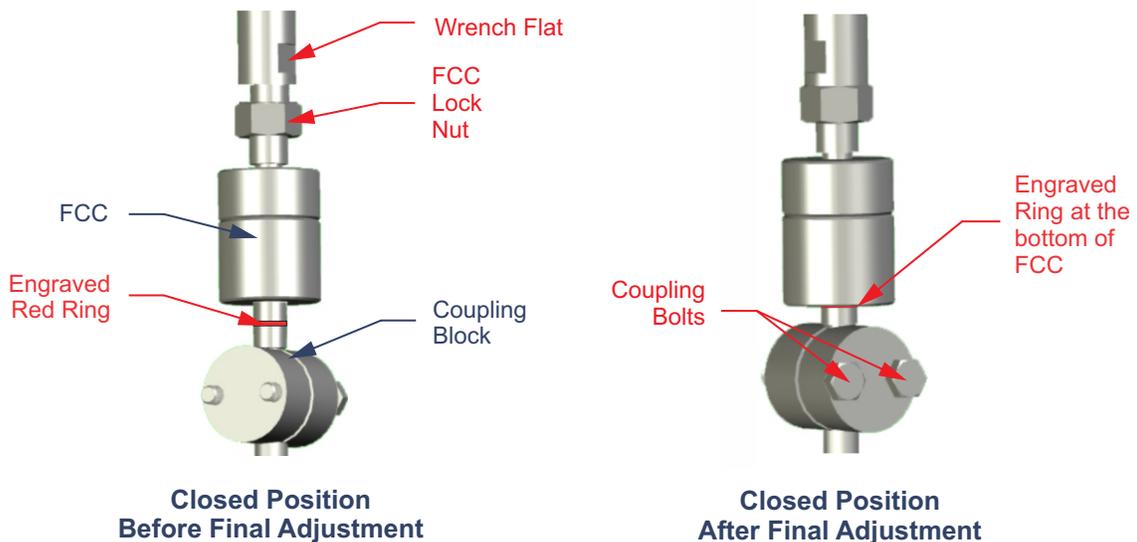


Final Assembly & Calibration

10. Attach actuator mounting plate to the R2L assembly, it should slid directly on, there should be NO valve stem movement, secure with washer and 4 ea Nyloc nuts provided with the unit.
 NOTE: The actuator needs to be in fully closed position



11. Hold R2L shaft on **Wrench Flats** and turn the FCC clockwise until engraved **Red Ring** on the stem coincides with the bottom of the FCC. This step sets a predetermine force applied to the valve seat preventing damage and leakage.
 12. Tighten FCC lock nut.
 13. Tighten Coupling Block bolts



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 not be visible when the valve is closed.
 15. **Assembly complete — calibrated and ready to go. Nice work!**