

## INSTALLATION & REMOVAL INSTRUCTIONS FOR CLIMAX SERIES C600 KEYLESS RIGID COUPLINGS

### \*\*IMPORTANT NOTICE\*\*

When installing or removing any CLIMAX Keyless Locking Device (KLD), please follow these important safety standards:

1. Check to ensure that power switches are off & locked out.
2. Always wear safety glasses & appropriate protective clothing.

### INSTALLATION

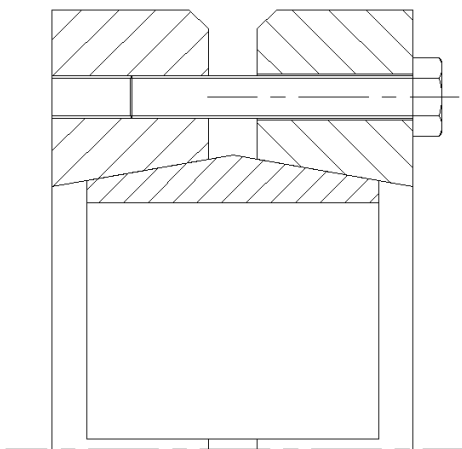


Figure 1

CLIMAX Series C600 Series Keyless Rigid Couplings are supplied with mating tapers, locking screw threads and locking screw head contact areas lubricated with Dow Corning® Molykote® G-n Metal Assembly Paste or equivalent. This lubricant contains Molybdenum Disulfide and must not be removed.

1. CLIMAX calculates and publishes rated torque capacities for C600 Series Keyless Rigid Couplings assuming a CLEAN & DRY interface between shafts and coupling bore to achieve a coefficient of friction of 0.15. Therefore it is important to thoroughly solvent clean and dry these surfaces prior to commencing this installation procedure.
2. Center the coupling over the ends of the two shafts to be joined (Note: any gap between shaft ends should not exceed 5% of largest shaft diameter). Hand-tighten locking screws while checking to ensure that outer thrust collars remain parallel (see Figure 1).
3. Use a properly calibrated torque wrench (we recommend the CCM Series from Sturtevant Richmond) and set it approximately 5% higher than our specified tightening torque  $M_a$ . Starting with a locking screw adjacent to the slit. Moving in the direction away from the slit, tighten the screws in a circular pattern using quarter turns for each screw, several times around until quarter turns can no longer be achieved. At this point, apply the 5% overtorque for 2 more complete times around.
4. Reset the torque wrench to the specified tightening torque  $M_a$ . Check to ensure that none of the locking screws turn at this torque value, otherwise reset the wrench to the 5% higher value and repeat Step 3 for one or two more complete passes.

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### REMOVAL

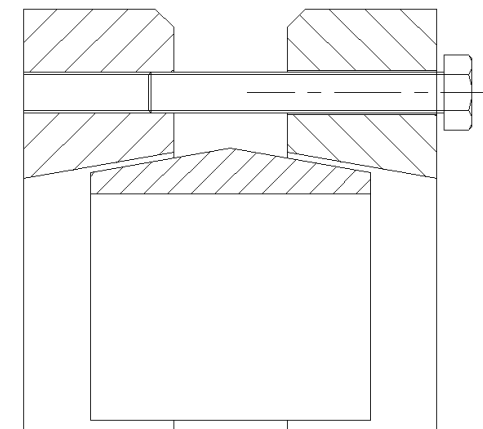


Figure 2

1. Ensure that axial movement of both outer thrust collars is not restricted, as this is necessary for proper removal.
2. Loosen – BUT DO NOT REMOVE – all locking screws gradually and sequentially in a circular pattern using quarter turns for each screw (see Figure 2). The outer thrust collars will back off the tapers and the C600 will return to its original clearance fit dimensions, thereby relaxing the coupling connection on the shafts.

### ⚠ WARNING ⚠

DO NOT completely remove locking screws during the removal procedure until it can be verified that thrust collars are fully disengaged from tapers. Doing so could result in serious permanent injury or death.

### Locking Screw Tightening Torque $M_a$

Screw Size	M5	M6	M8	M10	M12	M16
Tightening Torque $M_a$ (ft-lb)	3	9	22	44	74	184