

## INSTALLATION & REMOVAL INSTRUCTIONS FOR CLIMAX SERIES C200

### \*\*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

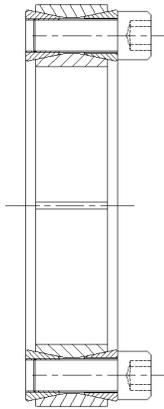


Figure 1

CLIMAX Series C200 Keyless Locking Devices are supplied with a thin coating of machine oil to achieve a coefficient of friction of 0.12 and are shipped ready for installation. As published contact pressures and torque capacities are based on this coefficient, DO NOT use Molybdenum Disulfide (e.g., Molykote, Never-Seez or similar lubricants), or synthetic lubricants with this CLIMAX KLD.

1. Check to ensure that locking screw, taper, shaft and bore contact areas are clean and thoroughly lubricated with a coating of light machine oil.
2. Insert CLIMAX Series C200 into component counter-bore.
3. Insert shaft into bore of Climax KLD Series C200.
4. After confirming correct position of the mounted component, tighten three or four equally spaced screws by hand until initial fit clearance is eliminated and positive contact with shaft and hub bore is achieved.
5. 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 and, 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 two more complete times around.
6. Reset the torque wrench to our 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 5 for one or two more complete passes.

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### REMOVAL

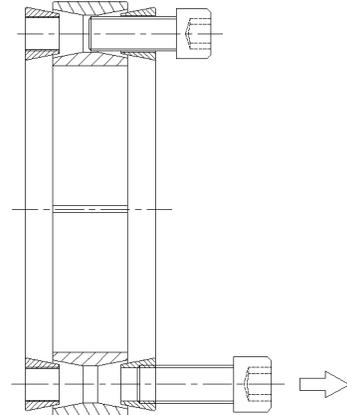


Figure 2

1. Evenly and gradually loosen all locking screws in several passes following a circular pattern.
2. The CLIMAX Series C200 is self-releasing, so the unit should relax and all clamp forces should release during Step 1. In some cases, particularly in corrosive operating environments, it may be necessary to hammer lightly on the heads of three equally spaced, pre-loosened locking screws in order to release the connection.
3. Note that removal of a CLIMAX Series C200 from a deep counter-bore is accomplished using the removal threads located under the two or three cadmium plated locking screws. These threads accommodate removal screws or threaded rods (supplied by others) one size larger than the locking screws (see dB below for removal screw sizes).

Locking Screw Tightening Torque $M_a$									
Screw Size	M6	M8	M10	M12	M14	M16	M18	M20	M22
Tightening Torque $M_a$ (ft-lbs)	10	26	51	89	140	218	299	428	575
Removal Thread Size dB	M8	M10	M12	M14	M16	M20	M22	M24	M27



Scan this QR Code to watch a short installation video for this Keyless Locking Device.