

INSTALLATION AND REMOVAL INSTRUCTIONS FOR CANTO-LOCK RIGID COUPLING SERIES C - 3011

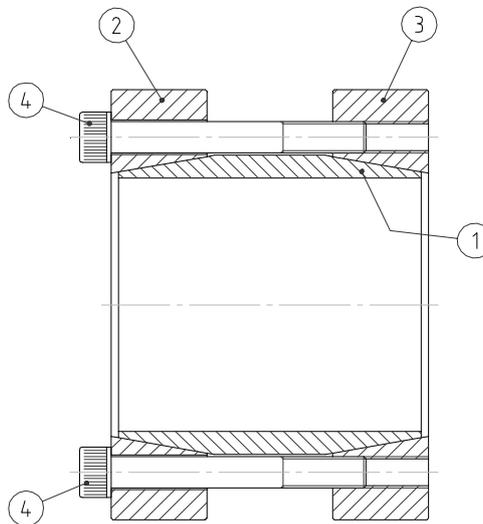
CANTO-LOCK C-3011 Rigid Couplings are supplied ready for installation. The torque capacity of these devices is based on a coefficient of friction of $\mu=0.12$ for lightly oiled screws, rings and shaft contact areas.

The clearances between the two shafts and inner ring [1] should be similar.

INSTALLATION

NOTE : Never tighten locking screws before shaft installation, as CANTO-LOCK C-3011 Coupling inner ring can be permanently deformed even at relatively low tightening torques.

- Carefully clean and lightly lubricate with ordinary machine oil shafts and inner ring bore. **It is important NOT to use Molybdenum Disulfide (e.g., Molykote, Never Seeze or similar lubricants) for shafts lubrication, since it will greatly reduce the torque capacity of the connection.**
- Once coupling is centered over shaft ends, hand-tighten three (3) or four (4) equally spaced locking screws and make sure that outer collars [2] & [3] are parallel. Hand-tighten remaining locking screws. **Important :** shaft engagement equal for both ends with gap not exceeding 5% of shaft diameter.
- Use torque wrench and set it approximately 5% higher than specified locking screw tightening torque (T_s). Tighten locking screws in either a clockwise sequence, using approx. $\frac{1}{4}$ (i.e., 90°) turns (even if initially some locking screws require a very low tightening torque to achieve $\frac{1}{4}$ turns) for several passes until $\frac{1}{4}$ turns can no longer be achieved.
- Continue to apply overtorque for 1-2 more passes. This is required to compensate for a system-related relaxation of locking screws since tightening of a given screw will always relax adjacent screws. Without overtorquing an infinite number of passes would be needed to reach specified tightening torque.
- Reset torque wrench to specified torque (T_s) and check all locking screws. No screw should turn at this point, otherwise repeat step 4 for 1 or 2 more passes. It is not necessary to re-check tightening torque after equipment has been in operation.



REMOVAL

Note : Prior to initiating the following removal procedure, check to ensure that no torque or thrust loads are acting on the Rigid Coupling, shafts or any mounted components.

- Loosen all locking screws in several stages by using approx. $\frac{1}{2}$ turns, following either a clockwise or counterclockwise sequence, until Rigid Coupling can be moved on shafts. In case, light tapping will help disengagement of outer collars. The Rigid Coupling will return to its original clearance fit.

WARNING

DO NOT completely remove locking screws before outer collars are disengaged. A sudden release of the outer collars involves high separating forces and could result in permanent injury or death. Be certain that outer collars are disengaged before completely removing locking screws.