Procedure 2402: Cam and Groove Coupling to Adapter

**Preparation**
- 1. Verify the assembly's intended pressure is within the working pressures as defined in Procedure 4002, Test Pressures & Procedures for Cam & Groove Couplings
- 2. Inspect the fittings for damage per Procedure 3003: Inspecting Dixon Cam & Groove Couplings.

**Notes**
- 1. Cam & Groove Couplings utilize one, two, or four “Cam Arms” to leverage compression of the gasket between the adapter and the coupler.
- 2. When possible, the Cam Arms should be closed simultaneously using hand force only.
- 3. The use of hammers or striking the Cam Arm with other objects can weaken or damage the fitting.
- 4. Couplings are available in several configurations, some with the ability to lock the Cam Arms in a closed position, and some requiring the user to provide additional locking devices.
- 5. If the Cam Arms are not fully closed during assembly, they are at risk of opening unexpectedly while under pressure or during process induced vibration.
- 6. Opening a Cam Arm assembly while under pressure can create a violent release of energy and induce damage to life, limb, and/or property.

**Process**

*To Connect:*
- 1. Open the arms on the Coupler.
- 2. Visually verify the presence of a Gasket within the Coupler.
- 3. Insert the Adapter into the coupler fully until it contacts the Gasket.
- 4. Using hands only, evenly close both Cam Arms fully (make sure the pull ring is not obstructing full closure)
- 5. Close the remaining two Cam Arms (on the 4 Arm models only).
- 6. Visually examine the assembly to assure that all Cam Arms are in the full closed position.
- 7. Install Locking Feature if present.

*To disconnect:*
- 1. Confirm that all pressure has been removed from the assembly. Do not disconnect the coupling while pressure remains in the system.
- 2. Remove any locking device previously installed or lift the release lever of the EZ BOSS Lock style Cam Arms.
- 3. Open one Cam Arm at a time. If any pressure remains in the system, opening only one Cam Arm could provide an audible warning of pressure and allow the operator the opportunity to reclose the arm and take appropriate steps to de-pressurize the system.
- 4. Open the remaining arm(s) and remove the adapter from the coupling.