

## Procedure 3002: Band Clamp Inspection

effective 02/08

### **Notes**

- 1. Failure to correctly install band clamps and inspect them on a regular basis could lead to an assembly failure. Assembly failure can result in damage to equipment and/or serious injury or death to personnel.
- 2. A number of factors can affect the integrity of an assembly. Some of these factors are: hose material (tube and cover), hose reinforcement material, reinforcement method, installation method, characteristics of the stem, clamp type, clamp material, product being conveyed and/or its temperature. Consideration for these factors and others determines the type and frequency of inspections required to ensure the assembly is safe.
- 3. If questions arise, contact Dixon® at 877-963-4966.

### **Process**

- 1. Prior to initial use, check to ensure that the clamp is appropriate for the hose and application.
- 2. Prior to initial use of the assembly, spray paint the junction of the hose and coupling and the clamp buckles.  
*Note:* Use a paint color that contrasts with the color of the coupling and the hose cover. Do not use silver paint.
- 3. Prior to each use, and monthly for assemblies that are in constant service (connected whether product is being conveyed or not), inspect the assembly as follows:
  - a. Inspect for slippage between the hose and coupling. If  $1/16$ " or more slippage between the hose and coupling has occurred, repair the assembly before returning it to service.  
*Note:* Some hoses exhibit 'stretch' while under pressure. This stretch may appear to be slippage. To be certain, relieve the pressure in the assembly. If the 'slippage' indication disappears, 'stretch' has occurred and the assembly can be returned to service. If the 'slippage' indication does not disappear, the assembly should be repaired or replaced.
  - b. Inspect for slippage at each clamp buckle. If  $1/32$ " or more slippage at buckle has occurred, repair or replace the assembly.
  - c. Inspect the circumference (including buckle) of all bands for corrosion (rust). If the surface of any band appears pitted from corrosion, repair or replace the assembly.
  - d. Inspect the circumference (including buckle) of all bands for wear. If the worn area is less than 50% of the thickness of an unworn area, the assembly should be repaired or replaced.