

Procedure 3001: Bolt Clamp Inspection

effective 02/08

Notes

- 1. Failure to correctly install clamps and inspect them on a regular basis could lead to 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 that the assembly is safe.
- 3. If questions arise, contact Dixon at 800-355-1991.

All Bolt Clamps

- 1. Prior to initial use, check to ensure that the clamp is appropriate for the hose and application.
- 2. Prior to initial use and at scheduled subsequent inspections, ensure that each clamp has its full complement of nuts and bolts. If any are missing, call an authorized Dixon distributor or Dixon at 800-355-1991. Replacing clamp nuts and bolts with other than those supplied by Dixon could adversely affect the function of the clamp.
- 3. Prior to use after storage, tighten all bolts to their recommended torque rating. For torque ratings, reference the product page in the current DPL (Dixon Price List). Use the tightening sequence recommended in the appropriate Dixon Procedure. Over tightening nuts can damage the bolt and/or clamp and affect its function.
- 4. For assemblies that are in constant service (connected whether product is being conveyed or not), retighten all bolts to their recommended torque rating every month.
Note: Do not tighten bolts while assembly is pressurized.
- 5. Prior to initial use of the assembly, spray paint the junction of the hose and coupling.
Note: Use a paint color that contrasts with the color of the coupling and the hose cover. Do not use silver paint.
- 6. Look for slippage between the hose and coupling prior to each use, during use and at each scheduled inspection. If 1/16" or more slippage has occurred or occurs, repair the assembly.
Note: If slippage has occurred, inspect the hose to determine suitability for returning it to service. Follow hose manufacturer's recommendations for determining hose serviceability.
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 removed from service for repair or replacement.

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Bolt Clamps without Gripping Fingers

- 1. Prior to each use or at each inspection interval, inspect:
 - a. Bolt lugs for cracks.
 - b. Bolt lugs for excessive wear (worn down to bolt hole).
 - c. Clamp bodies for cracks.
 - d. Clamp bodies for excessive wear. (Example: Lettering detail "DIXON" worn off.)
 - e. For inadequate spacing between clamp halves (on clamps without saddles).
 - f. For inadequate spacing between clamp halves and the saddle loop (on clamps with saddles).

- 2. If any of the above conditions exist, do not place assembly in service or remove assembly from service.

Bolt Clamps with Gripping Fingers

- 1. Prior to each use or at each inspection interval, inspect:
 - a. Bolt lugs for cracks.
 - b. Bolt lugs for excessive wear (worn down to bolt hole).
 - c. Junction of bolt lugs and clamp body for cracks.
 - d. Clamp body for cracks.
 - e. Clamp body for excessive wear. (Example: Lettering detail "DIXON" worn off.)
 - f. Gripping fingers for cracks.
 - g. Missing gripping fingers.
 - h. For adequate spacing between clamp halves.
 - i. For adequate spacing between the end of gripping fingers and the stem in the groove behind the collar.

- 2. If any of the above conditions exist, do not place assembly in service or remove assembly from service.