

Procedure 1000: Boss™ Clamp Selection

effective 02/08

Preparation

- Refer to Procedure 1101: How to Use a Dixon® Diameter Tape (page 11).

Note

- Using the wrong size Boss™ clamp or installing a Boss™ clamp with a hose having an OD (Outside Diameter) that is outside its "From/To" range can result in damage to property and serious injury to personnel.



Process

- 1. Determine the hose ID (Inside Diameter).
- 2. Measure the hose "free" OD with a Dixon® diameter tape. "Free" OD is measured before the stem is inserted. Refer to Procedure 1101: How to Use a Dixon® Diameter Tape (page 11).
- 3. On the Boss™ Clamp page in the Boss™ Couplings section of the current DPL (Dixon® Product List) locate the "Hose ID" column.
- 4. Locate the section in that column that corresponds with the hose ID.
- 5. From that section, select the clamp with a hose OD range (Hose OD From/To columns) that best fits the hose OD just measured.
 - a. *For steam hose*, select the clamp that has a maximum range ("To" column) as close to the measured hose OD as possible. This will allow the clamp to be re-tightened many times to adjust for "cold-flow," which speeds up with increased temperature and/or hot/cold cycles.
 - b. *For hard wall constructed hose* (wire present) with an OD at or near the clamp's maximum range ("To" column), use of the next largest clamp may be required.
 - c. *For soft wall constructed hose* (no wire present) having an OD at or near the clamp's minimum range ("From" column), use of the next smallest clamp may be required. Select the proper clamp based on material requirements.
- 6. Select the proper clamp material based on the environmental compatibility requirements.

Tip: Make note of the Bolt Torque for the clamp selected, required for proper assembly.