

Procedure 1000: Boss Clamp Selection

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Preparation

- Refer to Procedure 1101: How to Use a Dixon Diameter Tape.

Note

- Using the wrong size Boss clamp or installing a Boss clamp with a hose having an O.D. (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 I.D. (Inside Diameter).
- 2. Measure the hose "free" O.D. with a Dixon diameter tape. "Free" O.D. is measured before the stem is inserted. Refer to Procedure 1101:How to Use a Dixon Diameter Tape.
- 3. On the Boss Clamp page in the Boss Couplings section of the current DPL (Dixon Price List) locate the "Hose I.D." column.
- 4. Locate the section in that column that corresponds with the hose I.D.
- 5. From that section, select the clamp with a hose O.D. range (Hose O.D. From/To columns) that best fits the hose O.D. just measured.
 - a. *For steam hose*, select the clamp that has a maximum range ("To" column) as close to the measured hose O.D. 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 O.D. 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 O.D. 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.