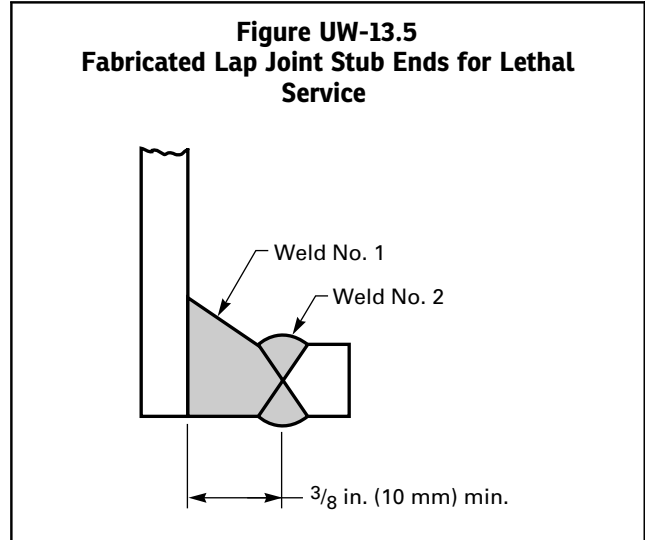


parallel to the axis of the vessel. Proof of this shall be furnished by a tension test specimen (subsize if necessary) taken in this direction and as close to the hub as practical.⁶⁸

(2) When the hub is machined from plate, the requirements of **Mandatory Appendix 20** shall be met.

(g) When the hub of a lap joint stub end is machined from plate with the hub length in the through thickness direction of the plate, the requirements of **Mandatory Appendix 20** shall be met.

(h) In the case of nozzle necks which attach to piping [see **U-1(e)(1)(-a)**] of a lesser wall thickness, a tapered transition from the weld end of the nozzle may be provided to match the piping thickness although that thickness is less than otherwise required by the rules of this Division. This tapered transition shall meet the limitations as shown in **Figure UW-13.4**.



UW-14 OPENINGS IN OR ADJACENT TO WELDS

(a) Any type of opening that meets the requirements for reinforcement given in **UG-37** or **UG-39** may be located in a welded joint.

(b) Single openings meeting the requirements given in **UG-36(c)(3)** may be located in head-to-shell or Category B or C butt welded joints, provided the weld meets the radiographic requirements in **UW-51** for a length equal to three times the diameter of the opening with the center of the hole at midlength. Defects that are completely removed in cutting the hole shall not be considered in judging the acceptability of the weld.

(c) In addition to meeting the radiographic requirements of (b) above, when multiple openings meeting the requirements given in **UG-36(c)(3)** are in line in a head-to-shell or Category B or C butt welded joint, the requirements of **UG-53** shall be met or the openings shall be reinforced in accordance with **UG-37** through **UG-42**.

(d) Except when the adjacent butt weld satisfies the requirement for radiography in (b) above, the edge of openings in solid plate meeting the requirements of

