Tech Sheet #109
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Corrosion Allowance in Deaerator Design

In pressure vessel design, metal thickness that is provided beyond that required for internal or external pressure design is referred to as the "corrosion allowance". In the case of deaerators, corrosion appears in the form of pits, which may become the source of cracking resulting from corrosion fatigue. A minimum corrosion allowance equal to the pit depth is recommended to reinforce sections subject to pitting. In deaerator design, a corrosion allowance of 1/8" on carbon steel vessels is recommended to account for metal loss.

This Tech Sheet was developed by the members of the Heat Exchange Institute's (HEI) Deaerator Section. HEI is a trade association comprising the leading manufacturers of heat exchange and vacuum equipment. HEI Tech Sheets are information tools and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific instructions regarding their equipment.