



Refrigeration Piping and Heat Transfer Components

Standards for Engineers Worldwide

ASME B31.5 – 2010

ASME has been defining piping safety since 1922.

ASME B31.5 covers refrigerant, heat transfer components, and secondary coolant piping for temperatures as low as -320°F (-196°C), whether erected on the premises or factory assembled. Users are advised that other piping Code Sections may provide requirements for refrigeration piping in their respective jurisdictions.

This Code does not apply to any self-contained or unit systems subject to the requirements of Underwriters Laboratories or other nationally recognized testing laboratory. It also does not apply to water piping; piping designed for external or internal gage pressure not exceeding 15 psi (105 kPa) regardless of size; or pressure vessels, compressors, or pumps. However, B31.5 does include all connecting refrigerant and secondary coolant piping starting at the first joint adjacent to such apparatus.

Key changes to this revision include standardizing nomenclature within the document, plus the addition of an appendix on nomenclature.

B31.5 prescribes comprehensive solutions for materials, design, fabrication, assembly, erection, testing and inspection. It also serves as a companion to ASME's B31.1 Code on Power Piping as well as to the other codes in ASME's B31 series. Together, they remain essential references for anyone engaged with piping.

Careful application of these B31 codes will help users to comply with applicable regulations within their jurisdictions, while achieving the operational, cost and safety benefits to be gained from the many industry best-practices detailed within these volumes.

Intended for designers, owners, regulators, inspectors, and manufacturers of refrigeration piping and heat transfer components.

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