



# Process Piping

Standards for Engineers Worldwide

## ASME B31.3-2012

ASME has been defining piping safety since 1922.

ASME B31.3 contains requirements for piping typically found in petroleum refineries; chemical, pharmaceutical, textile, paper, semiconductor, and cryogenic plants; and related processing plants and terminals. It covers materials and components, design, fabrication, assembly, erection, examination, inspection, and testing of piping.

This code applies to piping for all fluids including: (1) raw, intermediate, and finished chemicals; (2) petroleum products; (3) gas, steam, air and water; (4) fluidized solids; (5) refrigerants; and (6) cryogenic fluids. Also included is piping which interconnects pieces or stages within a packaged equipment assembly.

Key changes to this revision include updating Table A-1 Basic Allowable Stresses in Tension for Metals in its entirety, adding Table A-1M Basic Allowable Stresses in Tension for Metals in metric units, adding Table A-2M Design Stress Values for Bolting Materials in metric units, adding metric units to Appendix H Sample Calculations for Branch Reinforcement, and adding a new Appendix N on Application of ASME B31.3 Internationally.

B31.3 is one of ASME's most popular codes, widely adopted by jurisdictions worldwide. It 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 professionally 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** manufacturers, users, constructors, designers, and others concerned with the design, fabrication, assembly, erection, examination, inspection, and testing of piping, plus all potential governing entities.

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### ASME B31.3-2012 Code on Process Piping

ISBN: 9780791834213  
 No. pages: 540  
 Digital Download (PDF) / Order No. A0371T  
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