



Hydrogen Piping and Pipelines

Standards for Engineers Worldwide

ASME B31.12 – 2014

ASME has been defining piping safety since 1922.

ASME B31.12 Hydrogen Piping and Pipelines contains requirements for piping in gaseous and liquid hydrogen service and pipelines in gaseous hydrogen service. The general requirements section covers materials, brazing, welding, heat treating, forming, testing, inspection, examination, operating, and maintenance. The industrial piping section covers requirements for components, design, fabrication, assembly, erection, inspection, examination, and testing of piping.

Key changes to this revision include:

- New Section GR-6.3 for Quality System Functions
- New table for Required Nondestructive Examinations added to Chapter IP-10
- New paragraphs for Quality Control Examinations, Extent of Required NDE Examinations, Acceptance Criteria, Procedures, and Types of Examination added to Chapter IP-10
- Updated references throughout
- Equations for thickness of permanent blanks and of straight pipe have been updated

B31.12 serves as a companion to the other codes in ASME's B31 series. Together, they remain essential references for anyone engaged with piping.

Careful application of these ASME 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, designers, operators, owners and inspectors of hydrogen piping and pipelines, plus all potential governing entities.

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