Piping and Pipeline Standards

An International Piping Code

ASME B31 Standards on Piping and Pipelines

These standards prescribe requirements for the design, materials, fabrication, construction, testing, inspection, operation and maintenance of piping systems found across a wide range of industries including electric power generation; petrochemical; distribution and transportation pipelines; industrial and cryogenics; building services piping; and refrigeration, among others. Our standards enable users to:

- Comply with important regulations within their jurisdictions
- Follow industry best-practices
- Achieve operational, cost and safety benefits

Intended for: anyone involved in engineering or technical aspects of pipelines, including designers, engineers, inspectors, compliance managers and pipeline safety regulators.

ASME B31 includes the following Standards:

- ASME B31.1 Power Piping
- ASME B31.3 Process Piping
- ASME B31.4 Pipeline Transportation Systems for Liquids and Slurries
- ASME B31.5 Refrigeration Piping and Heat Transfer Components
- ASME B31.8 Gas Transmission and Distribution Piping Systems
- ASME B31.8S Managing System Integrity of Gas Pipelines
- ASME B31.9 Building Services Piping
- ASME B31.12 Hydrogen Piping and Pipelines
- ASME B31E Standard for the Seismic Design and Retrofit of Above-Ground Piping Systems
- ASME B31G Manual for Determining the Remaining Strength of Corroded Pipelines
- ASME B31J Standard Test Method for Determining Stress Intensification Factors (I-Factors) for Metallic Piping Components
- ASME B31P Standard Heat Treatment for Fabrication Processes
- ASME B31Q Pipeline Personnel Qualification
- ASME B31T Standard Toughness Requirements for Piping

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ASME Codes and Standards:

ASME is the leading international developer of codes and standards associated with the art, science and practice of mechanical engineering. Starting with the first issuance of its legendary Boiler & Pressure Vessel Code in 1911, ASME's codes and standards have grown to nearly 600 offerings currently in print.