

Gain Insight into the Latest Hydrogen Storage and Distribution Requirements

Discover Essential Resources for Hydrogen Storage and Distribution

Hydrogen is one of the smallest, lightest, and cleanest elements used for fuel, which means it can play a significant role in reducing greenhouse gas emissions. But hydrogen is also one of the most complex elements to produce, store, transport, and use as an energy source. ASME has invested in research and the development of standards that guide companies across the design, manufacturing, fabrication, construction, installation, operation, examination, inspection, testing, and maintenance of products and systems used to store and distribute hydrogen.



Explore ASME's Hydrogen Piping and Pipeline Standards

- Discover piping design solutions that can help you across the most challenging applications
- Learn about new piping materials, products, & technological innovations, that help you stay ahead
- Access piping material specs, data, and guidance you can custom tailor to your application
- Invest in essential tools and best practices that can help you achieve cost and time efficiencies



Access Essential Requirements for Hydrogen Storage

- Learn about the latest tools and technologies being used for storing hydrogen
- Identify which materials are needed for high-pressure hydrogen tanks
- Access research on composite tanks for hydrogen infrastructure applications
- Discover solutions that can help you reduce costs, enhance safety, and shorten project timelines



Identify Design and Material Solutions for Hydrogen Applications

- Explore the different material property requirements needed for various hydrogen applications
- Learn about high-pressure hydrogen's affect on metallic and non-metallic materials
- Gain insight into the latest design factors for high-pressure composite hydrogen tanks
- Access the most up-to-date design guidelines for your different hydrogen projects



Find the Latest Information on Testing, Inspection, and Analysis

- Discover nondestructive evaluation methods for hydrogen composite tanks
- Access guidelines for in-service inspection of hydrogen composite pressure vessels
- Learn about special requirements for hydrogen service vessels and how to evaluate fatigue
- Stay up-to-date on the latest testing and inspection techniques across your hydrogen applications

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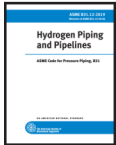
Explore ASME's Hydrogen Standards



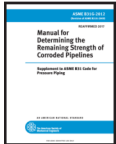
Invest in the Latest Industry Tools and Resources



ASME B31.3–2022
Process Piping



ASME B31.12–2019
Hydrogen Piping And
Pipelines



ASME B31G–2012 (R2017)
Manual for Determining the
Remaining Strength of
Corroded Pipelines



ASME BPVC Section II–2023
Materials-Part A-Ferrous Material
Specifications



ASME BPVC Section II–2023
Materials-Part B-Nonferrous
Material Specifications



ASME BPVC Section II–2023
Materials-Part DC-Properties
(Customary)



ASME BPVC Section II–2023
Materials-Part DM-Properties
(Metric)



ASME BPVC Section V–2023
Nondestructive Examination



ASME BPVC Section VIII.1–2023
Rules for Construction of
Pressure Vessels, Division 1



ASME BPVC Section VIII.2–2023
Rules for Construction of
Pressure Vessels, Division 2-
Alternative Rules



ASME BPVC Section VIII.3–2023
Rules for Construction of Pressure
Vessels, Division 3-Alternative
Rules for Construction of High
Pressure Vessels



ASME BPVC Section IX–2023
Welding, Brazing, and Fusing
Qualifications



ASME BPVC Section X–2023
Fiber-Reinforced Plastic
Pressure Vessels



ASME BPVC Section XII–2023
Rules for Construction and
Continued Service of Transport
Tanks



ASME BPVC Section XIII–2023
Rules for Overpressure
Protection



ASME BPVC BPV–2023
Code Cases-Boilers and
Pressure Vessels



ASME CA-1–2022
Conformity Assessment
Requirements



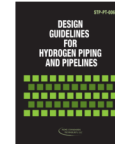
ASME PTC 19.10–1981
Flue and Exhaust Gas Analyses-
Part 10



ASME STP-PT-003–2005
Hydrogen Standardization
Interim Report for Tanks,
Piping, and Pipelines



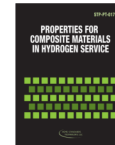
ASME STP-PT-005–2006
Design Factor Guidelines for
High-Pressure Composite
Hydrogen Tanks



ASME STP-PT-006–2007
Design Guidelines for
Hydrogen Piping and
Pipelines



ASME STP-PT-014–2008
Data Supporting Composite
Tank Standards
Development for Hydrogen
Infrastructure Applications



ASME STP-PT-017–2008
Properties for Composite
Materials in Hydrogen
Science



ASME STP-PT-021–2008
Nondestructive Testing
and Evaluation Methods for
Composite Hydrogen Tanks



ASME STP-PT-023–2009
Guidelines for In-Service
Inspection of Composite
Pressure Vessels



ASME STP-PT-043–2010
Flawed Cylinder Testing



ASME STP-PT-064–2013
Evaluation of Fracture
Properties Test Methods
for Hydrogen Service

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