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Process Piping: The Complete Guide to ASME B31.3 - AWWA

Process piping design is used in many industries around the world, including the chemical, pharmaceutical, food, paper, semiconductor, and cryogenic plants. It is a complex system that requires a thorough understanding of the requirements and limitations. The ASME B31.3 Code provides a comprehensive guide to the design, fabrication, installation, examination, and testing of process piping systems.

Design considerations for process piping typically include:

- Material selection
- Pressure and temperature ratings
- Fluid compatibility
- Corrosion resistance
- Strength and stability
- Mechanical integrity

These factors are critical to ensuring the safe and efficient operation of a process piping system. The ASME B31.3 Code is widely recognized as the de facto standard for process piping design and is used in many industries around the world.

Introduction

The new edition for ASME B31.1, Process Piping, has been issued (December 2020). As usual, there are many changes and improvements compared to the previous edition. Some of the changes are critical to the safe and efficient operation of a process piping system.

New Edition Features

- Updated material requirements
- New temperature and pressure ratings
- Additional requirements for containment and isolation
- More detailed guidance on the selection of materials
- Improved guidance on the selection of equipment
- Expanded guidance on the selection of piping systems

The new edition of ASME B31.1 will be issued in 2021 and will be available for purchase in early 2021.

Conclusion

The ASME B31.1, Process Piping, is a comprehensive guide to the design, fabrication, installation, examination, and testing of process piping systems. It is an essential resource for engineers and designers working in the process industry. The new edition features many improvements and updates to the previous edition, making it an even more valuable resource for designers and engineers.