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AS/NZS 4645.2:2018

Australian/New Zealand Standard™

Gas distribution networks

Part 2: Steel pipe systems

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The following are represented on Committee AG-008:

Access Canberra
Australian Industry Group
Australian Pipelines and Gas Association
Department of Planning and Environment (Division of Energy, Water and Portfolio Strategy) NSW
Energy Networks Australia
Engineers Australia
Gas Association of New Zealand
Gas Energy Australia
Gas Technical Regulators Committee
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Part 2: Steel pipe systems

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AG-008 Gas Distribution, through its subcommittee AG-008-02, Installation and Maintenance of Steel Pipe Systems for Gas, to supersede AS/NZS 4645.2:2008.

The objective of this Standard is to provide for the protection of the general public, gas distribution network operating personnel and the environment, and to ensure safe and reliable operation of gas distribution networks that reticulate gas to consumers.

This Standard covers steel piping within gas distribution networks covered by AS/NZS 4645.1, where the maximum allowable operating pressures up to or equal to 1050 kPa and the hoop stress is less than or equal to 20% SMYS of the pipe. Steel piping systems for gas outside these limits are generally covered by the AS 2885 suite of Standards and for some jurisdictions. AS/NZS 4645.1 provides for limited use up to 1965 kPa.

This series of Standards includes the following parts:

AS/NZS
4645 Gas distribution networks
4645.1 Part 1: Network management
4645.2 Part 2: Steel pipe systems (this Standard)
4645.3 Part 3: Plastics pipe systems

The Standard is not a design handbook, nor a manual on distribution practices. It does not remove the need for qualified and experienced engineering design, installation and operation or for competent engineering judgment, and does require interpretation and implementation by competent engineers.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard. Alternative means of conformance may be acceptable provided the required safety outcomes can be demonstrated with AS/NZS 4645.1.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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