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NSAI Standards

Irish Standard
I.S. 329:2015+A1:2016

Gas distribution mains (Edition 3) and Amendment No. 1:2016

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I.S. 329:2015+A1:2016

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DECLARATION

OF

SPECIFICATION

ENTITLED

GAS DISTRIBUTION MAINS (EDITION 3)

AS

THE IRISH STANDARD SPECIFICATION FOR

GAS DISTRIBUTION MAINS (EDITION 3)

NSAI in exercise of the power conferred by Section 16 (5) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Jobs, Enterprise and Innovation, hereby declare as follows:

1. This instrument may be cited as the Standard Specification Gas distribution mains (Edition 3) and Amendment No. 1:2016 Declaration, 2016.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the Standard Specification for Gas distribution mains (Edition 3) and Amendment No. 1:2016.

(2) The said Standard Specification may be cited as Irish Standard 329:2015+A1:2016 or as I.S. 329:2015+A1:2016.

3. (1) The Standard Specification Gas distribution mains (Edition 3) Declaration 2015 is hereby revoked.

(2) Reference in any other Standard Specification to the Instruments hereby revoked and to Irish Standard 329:2015 thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 329:2015+A1:2016.

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Foreword

This Standard has been prepared by the Distribution Technical Committee (TC 1) of the Gas Technical Standards Committee. Acknowledgement is given to the Institution of Gas Engineers and Managers Recommendations (IGE/TD/3 – Distribution Mains) which was consulted when preparing this Standard and some of its recommendations followed.

This Standard specifies the minimum requirements in respect of all aspects of the gas distribution mains system with particular emphasis on the safety requirements. It is not a design handbook and the need for exercising competent engineering judgement is essential.

Future experience acquired in the design and construction of distribution mains and the advent of new technology and materials may lead to revisions of this Standard being issued at appropriate intervals.

Attention is drawn to the fact that legal requirements exist when laying gas mains. In particular, all works and procedures associated with the laying of gas mains shall be in conformity with the requirements of the Safety, Health and Welfare at Work Act 2005 (and Regulations there under), and the Building Control Act 1990.

The Standard does not supersede, or take precedence over, the requirements of legislation and it is imperative that due regard be taken of such requirements. The Standard should be applied in consultation with all relevant authorities.

Manufacture of polyethylene (PE) pipe is permitted using non-pigmented compound in conjunction with an external peelable layer providing the compound conforms to the requirement of I.S. EN 1555 (all parts).

⟦A1⟩ Amendments are indicated by the TAGs ⟦A1⟩ ⟨A1⟧

⟦A1⟩ This document supersedes I.S. 329:2015. ⟨A1⟧

The main technical changes in this revision include:

— The addition of an environmental annex.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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Schedule

Gas distribution mains (Edition 3) ⟦A1⟩ and Amendment No. 1:2016 ⟦A1⟧

1 Scope

This Standard specifies the minimum requirements for the design, construction, commissioning, operation, maintenance and alteration of polyethylene (PE) or metallic mains, for the distribution of gas at pressures up to and including 16 bar.

The distribution mains system is the network of pipes which transports gas from the natural gas transmission system (see I.S. 328), LPG storage system or a gas manufacturing plant to the gas service pipes. The installation of gas service pipes is addressed in I.S. 265.

Clause 17 deals specifically with the particular requirements for LPG systems.

All pressures quoted in this Standard are gauge pressures.

2 Reference standards

This Standard incorporates by dated or undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

I.S. 328, *Code of practice for gas transmission pipelines and pipeline installations*

I.S. 265, *Installation of Gas Service Pipes – Parts 1 and 2*

I.S. 820, *Non-Domestic gas installations*

I.S. 822, *Gas pressure regulating installations on service pipelines*

I.S. 3216 *Code of Practice for the Bulk Storage of Liquefied Petroleum Gas (LPG)*

I.S. EN 1555 (all parts), *Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE)*

I.S. EN 1776, *Gas supply systems - Natural gas measuring stations - Functional requirements*

I.S. EN ISO 6976, *Natural gas — Calculation of calorific values, density, relative density and Wobbe index from composition*

I.S. EN ISO 9606-1, *Qualification testing of welders - Fusion welding - Part 1: Steels (ISO 9606-1:2012 including COR 1:2012)*

I.S. EN 12007-1, *Gas infrastructure - Pipelines for maximum operating pressure up to and including 16 bar - Part 1: General functional requirements*

I.S. EN 12007-2, *Gas infrastructure - Pipelines for maximum operating pressure up to and including 16 bar - Part 2: Specific functional requirements for polyethylene (MOP up to and including 10 bar)*

I.S. EN 12007-3, *Gas supply systems - Pipelines for maximum operating pressure up to and including 16 bar – Part 3: Specific functional recommendations for steel*

I.S. EN 12007-4, *Gas infrastructure - Pipelines for maximum operating pressure up to and including 16 bar – Part 4: Specific functional requirements for renovation*

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