

IGEM/TD/1
Supplement 1 Edition 2
Communication 1825

Handling, transport and storage of steel pipe, bends and fittings



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© The Institution of Gas Engineers and Managers
IGEM House
26-28 High Street
Kegworth
Derbyshire, DE74 2DA
Tel: 0844 375 4436
Fax: 01509 678198
Email: general@igem.org.uk

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SECTION 1 : INTRODUCTION

- 1.1 This Standard is issued as a Supplement to IGEN/TD/1 Edition 5, and supersedes IGEN/TD/1 Edition 5 Supplement 1 which is now obsolete.

This Supplement 1 Edition 2 can be read and used independently of IGEN/TD/1. The advice contained herein may be used for the handling, transport and storage of steel components to be used in any fuel gas installation, such as those designed and installed in accordance with IGEN/TD/3, IGE/TD/4, IGEN/TD/13, IGEN/UP/2, IGEN/UP/3, IGEN/UP/6, IGE/UP/7, IGE/UP/9, IGEN/UP/10, IGEN/UP/11, IGEN/UP/12, IGEN/G/5, IGE/GM/4, IGEN/GM/6 and IGEN/GM/8 (see the list of all Standards available at www.igem.org.uk).

- 1.2 This Standard makes use of the terms "must", "shall" and "should", when prescribing particular requirements:

- the term "must" identifies a requirement by law in Great Britain (GB) at the time of publication
- the term "shall" prescribes a procedure which, it is intended, will be complied with in full and without deviation
- the term "should" prescribes a procedure which, it is intended, will be complied with unless, after prior consideration, deviation is considered to be acceptable.

- 1.3 This Standard has been drafted by a Panel appointed by the IGEN's Gas Transmission and Distribution Committee, subsequently approved by that Committee and published by the authority of the Council of IGEN.

- 1.4 It is now widely accepted that the majority of accidents in industry generally are in some measure attributable to human as well as technical factors in the sense that actions by people initiated or contributed to the accidents, or people might have acted better to avert them.

It is therefore necessary to give proper consideration to the management of these human factors and the control of risk. To assist in this, it is recommended that due cognisance should be taken of the publication HS(G)48.

- 1.5 The primary responsibility for compliance with legal duties rests with the employer. The fact that certain employees, for example "responsible engineers", are allowed to exercise their professional judgement does not allow employers to abrogate their primary responsibilities. Employers must:

- (a) Have done everything to ensure, so far as is reasonably practicable, that there are no better protective measures that can be taken other than relying on the exercise of professional judgement by "responsible engineers".
- (b) Have done everything to ensure, so far as is reasonably practicable, that "responsible engineers" have the skills, training, experience and personal qualities necessary for the proper exercise of professional judgement.
- (c) Have systems and procedures in place to ensure that the exercise of professional judgement by "responsible engineers" is subject to appropriate monitoring and review.

- (d) Not require “responsible engineers” to undertake tasks which would necessitate the exercise of professional judgement that is beyond their competence. There should be written procedures defining the extent to which “responsible engineers” can exercise their judgement. When “responsible engineers” are asked to undertake tasks that deviate from this, they should refer the matter for higher review.

1.6 This Standard does not attempt to make the use of any method or specification obligatory against the judgement of the responsible engineer. Where new and better techniques are developed and proved, they are to be adopted without waiting for modification to this Standard. Amendments to this Standard will be issued when necessary and their publication will be announced in the Journal of IGEM and other publications as appropriate.

1.7 Requests for interpretation of this Standard in relation to matters within its scope, but not precisely covered by the current text, should be addressed to Technical Services, IGEM, IGEM House, 26-28 High Street, Kegworth, DE74 2DA, email: technical@igem.org.uk and will be submitted to the relevant Committee for consideration and advice, but in the context that the final responsibility is that of the engineer concerned. If any advice is given by or on behalf of IGEM, this does not relieve the responsible engineer of any of his or her obligations.

1.8 This Standard was published in July 2018.

SECTION 2 : SCOPE

- 2.1 This Standard deals with the handling, transportation and storage of coated and uncoated steel pipes, bends and fittings, whether these procedures are carried out in a depot or on site.
- 2.2 Primarily, this Standard deals with the handling, transport and storage of single lengths of pipe, although the principles, as outlined, may be applied to a wider range of components such as valves and regulators or fabricated assemblies (typically skid units or sub-assemblies).
- The specific application will, therefore, need to take account of the particular circumstances involved, manufacturer's/designer's specified requirements and the components and assemblies that are being handled, transported or stored.
- 2.3 This Standard sets out the minimum requirements for short term storage and the additional measures to be taken when components and assemblies are to be held in storage for extended periods of time.
- 2.4 Italicised text is informative and does not represent formal requirements.
- 2.5 Appendices are informative and do not represent formal requirements unless specifically referenced in the main sections via the prescriptive terms "should", "shall" or "must".