



NSAI
Standards

Irish Standard
I.S. EN 1626:2008

Cryogenic vessels - Valves for cryogenic service

I.S. EN 1626:2008

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i> I.S. EN 1626:1999	<i>This document is based on:</i> EN 1626:2008 EN 1626:1999	<i>Published:</i> 5 November, 2008 9 July, 1999	
This document was published under the authority of the NSAI and comes into effect on: 8 January, 2009		ICS number: 23.020.40 23.060.01	
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Údarás um Chaighdeáin Náisiúnta na hÉireann			

English Version

Cryogenic vessels - Valves for cryogenic service

Réceptifs cryogéniques - Robinets pour usage
cryogénique

Kryo Behälter - Absperrarmaturen für tiefkalten Betrieb

This European Standard was approved by CEN on 13 September 2008.

CEN members are bound to comply with the CEN/GENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

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Foreword

This document (EN 1626:2008) has been prepared by Technical Committee CEN/TC 268 "Cryogenic vessels", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2009, and conflicting national standards shall be withdrawn at the latest by May 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document will supersede EN 1626:1999.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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I.S. EN 1626:2008

EN 1626:2008 (E)

1 Scope

This European Standard specifies the requirements for the design, manufacture and testing of valves for cryogenic service, i.e. for operation with cryogenic fluids below - 10 °C as well as at ambient conditions to allow for start-up and run-down. It specifies additional requirements for cryogenic service for the appropriate valve product standard.

NOTE a cryogenic fluid (refrigerated liquefied gas) is a gas which is partially liquid because of its low temperature (including totally evaporated liquids and supercritical fluids).

It applies to sizes up to DN 150 including vacuum jacketed cryogenic valves.

This European Standard is not applicable to safety valves and valves for liquefied natural gas (LNG).

It is intended that the valve be designed and tested to satisfy a pressure rating (PN or Class). Valves may then be selected with a PN or Class equal to or greater than the maximum allowable pressure (PS) of the equipment with which it is to be used.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 19, *Industrial valves - Marking of metallic valves*

EN 736-1, *Valves - Terminology - Part 1: Definition of types of valves*

EN 736-2, *Valves - Terminology - Part 2: Definition of components of valves*

EN 736-3, *Valves - Terminology - Part 3: Definition of terms*

EN 1092-1, *Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges*

EN 1251-1, *Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1000 litres volume - Part 1: Fundamental requirements*

EN 1252-1, *Cryogenic vessels - Materials - Part 1: Toughness requirements for temperatures below - 80 °C*

EN 1333, *Flanges and their joints - Pipework components - Definition and selection of PN*

EN 1759-1, *Flanges and their joint - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 1: Steel flanges, NPS ½ to 24*

EN 1797, *Cryogenic vessels - Gas/material compatibility*

EN 12266-1, *Industrial valves - Testing of valves - Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements*

EN 12266-2, *Industrial valves - Testing of valves - Part 2: Tests, test procedures and acceptance criteria - Supplementary requirements*

EN 12300, *Cryogenic vessels - Cleanliness for cryogenic service*

EN 12516-1, *Industrial valves - Shell design strength - Part 1: Tabulation method for steel valve shells*

EN 12516-2, *Industrial valves - Shell design strength - Part 2: Calculation method for steel valve shells*

EN 12516-4, *Industrial valves - Shell design strength - Part 4: Calculation method for valve shells manufactured in metallic materials other than steel*

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