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Irish Standard I.S. EN 1626:2008

Cryogenic vessels - Valves for cryogenic service

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Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i> I.S. EN 1626:1999	<i>This document is base</i> EN 1626:2008 EN 1626:1999	ed on:	<i>Publish</i> 5 Nove 9 July, 1	<i>ed:</i> mber, 2008 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	
NSAI 1 Swift Square, T +3 Northwood, Santry F +3 Dublin 9 E st W N	53 1 807 3800 53 1 807 3838 andards@nsai.ie SAI.ie	Sales: T +353 1 85 F +353 1 85 W standarc	57 6730 57 6729 Is.ie	Price Code: F	
Údarás um Chaighdeáin Náisiúnta na hÉireann					

EUROPEAN STANDARD NORME EUROPÉENNE

EN 1626

EUROPÄISCHE NORM

November 2008

ICS 23.020.40; 23.060.01

Supersedes EN 1626:1999

English Version

Cryogenic vessels - Valves for cryogenic service

Récipients cryogéniques - Robinets pour usage cryogénique

Kryo Behälter - Absperrarmaturen für tiefkalten Betrieb

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Ref. No. EN 1626:2008: E

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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of an identical text or by endorsement, at the latest by May 2009, and conflicting national standards shall be withdrawn at the latest by May 2009.

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

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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 $\frac{1}{2}$ 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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