



NSAI
Standards

Irish Standard
I.S. EN 12569:2020

Industrial valves - Valves for chemical and petrochemical process industry - Requirements and tests

I.S. EN 12569:2020

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National Foreword

I.S. EN 12569:2020 is the adopted Irish version of the European Document EN 12569:2020, Industrial valves
- Valves for chemical and petrochemical process industry - Requirements and tests

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EUROPEAN STANDARD

EN 12569

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2020

ICS 23.060.01

Supersedes EN 12569:1999

English Version

Industrial valves - Valves for chemical and petrochemical process industry - Requirements and tests

Robinetterie industrielle - Appareils de robinetterie destinés aux procédés de l'industrie chimique et pétrochimique - Prescriptions et essais

Industriearmaturen - Armaturen für die chemische und petrochemische Verfahrenindustrie - Anforderungen und Prüfungen

This European Standard was approved by CEN on 14 September 2020.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document (EN 12569:2020) has been prepared by Technical Committee CEN/TC 69 “Industrial valves”, 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of an identical text or by endorsement, at the latest by April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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

This document supersedes EN 12569:1999 and EN 12569:1999/AC:2000.

The main technical changes compared to the previous edition are the following:

- Clause 2 on normative references has been updated;
- Clause 3 for terms, definitions and symbols has been added;
- Clause 5 on the applicable requirements has been completely re-written;
- normative Annex A on supplementary possible steel grades for fasteners and normative Annex B for threaded holes for pneumatic connections have been added;
- informative Annex C giving basic configuration of the valve interface from actuator to the valve with a bracket has been added.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 12569:2020 (E)

Introduction

This document is based on the experience of the chemical and petrochemical industry and provides additional requirements to those given in EN 16668 and valve product standards.

It is assumed that the essential safety requirements of the European legislation for pressure equipment (satisfied by European product standards) and safety requirements from EN 16668 and other standards are satisfied.

1 Scope

This document applies to valves of DN 15 and larger, made of metallic materials for chemical and petrochemical plants. It contains additional requirements to those contained in the relevant European product standards (e.g. EN 593, EN 1349) and EN 16668.

The use of design codes or technical rules other than described by European product standards is subject to agreement with the purchaser.

Process control devices and safety accessories are not subject of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 558, *Industrial valves — Face to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems — PN and Class designated valves*

EN 736-2:2016, *Valves — Terminology — Part 2: Definition of components of valves*

EN 736-3:2008, *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 1267, *Industrial valves — Test of flow resistance using water as test fluid*

EN 1349, *Industrial process control valves*

EN 1515-4, *Flanges and their joints — Bolting — Part 4: Selection of bolting for equipment subject to the Pressure Equipment Directive 97/23/EC*

EN 1563, *Founding — Spheroidal graphite cast irons*

EN 1759 (all parts), *Flanges and their joint — Circular flanges for pipes, valves, fittings and accessories, Class designated*

EN 10204, *Metallic products — Types of inspection documents*

EN 10269, *Steels and nickel alloys for fasteners with specified elevated and/or low temperature properties*

EN 12266-1:2012, *Industrial valves — Testing of metallic valves — Part 1: Pressure tests, test procedures and acceptance criteria — Mandatory requirements*

EN 12266-2:2012, *Industrial valves — Testing of metallic valves — Part 2: Tests, test procedures and acceptance criteria – Supplementary requirements*

EN 12351, *Industrial valves — Protective caps for valves with flanged connections*

EN 12570, *Industrial valves — Method for sizing the operating element*

EN 15081, *Industrial valves — Mounting kits for part-turn valve actuator attachment*

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