SLOVENSKI STANDARD
oSIST prEN 13397:2026

01-december-2026

Industrijski ventili - Membranski ventili s kovinsko membrano

Industrial valves - Metallic diaphragm valves

Industriearmaturen - Membranarmaturen aus Metall

Robinetterie industrielle - Robinets métalliques à membrane

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Ta slovenski standard je istoveten z: **prEN 13397**

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ICS:

23.060.01	Ventili na splošno	Valves in general

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN 13397

October 2026

ICS 23.060.01

Will supersede EN 13397:2001

English Version

Industrial valves - Metallic diaphragm valves

Robinetterie industrielle - Robinets métalliques à membrane

Industriearmaturen - Membranarmaturen aus Metall

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European foreword

This document (prEN 13397:2026) has been prepared by Technical Committee CEN/TC 69 “Industrial valves”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13397:2001.

This document includes the following significant technical changes with respect to EN 13397:2001:

a) inclusion of an introduction to explain the reason of this revision;

b) the inclusion of a sentence in the scope to clarify that this document applies to all industrial applications;

c) addition of new 4.14 and 5.2 on the design requirements and final assessment for the European legislation for pressure equipment;

d) addition of a new Clause 8 for the documentation;

e) removal of shell materials table in Annex A;

f) update of Annex A to provide valve data sheet template;

g) addition of Annex B providing details on environmental corrosion protection;

h) addition of Annex C providing correspondence between DN and NPS;

i) addition of Annex D providing the relationship between the clauses/subclauses of this document and those of EN 16668:2025;

j) update of Annex ZA.

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This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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Introduction

This document was revised to refer to EN 16668:2025 for those requirements related to the European legislation for pressure equipment applicable to diaphragm valves.

EN 16668:2025 was drafted to cover the requirements for the European legislation on Pressure Equipment. Therefore, for the applications in accordance with the European legislation for pressure equipment, EN 16668:2025 applies together with this document.

Annex D provides the relationship between the clauses/subclauses of this document and those of EN 16668:2025.

NOTE Annex ZA of this document is identical to Annex ZA of EN 16668:2025, for those requirements applicable to diaphragm valves.

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1 Scope

This document specifies minimum requirements applicable to design, final assessment, designation, marking and documentation for diaphragm valves:

— having unlined and lined metallic bodies;

— having weir, weirless and straight-through body designs;

— for operation with manual handwheel or actuator;

— for use with flanged, welded and threaded pipe end connections;

— used for isolating, regulating or controlling applications or any combination thereof.

The PN and Class ranges are:

— PN 6, PN 10, PN 16 and PN 25;

— Class 125 and Class 150.

The size range is:

— for flanged valves: sizes DN 15, DN 20, DN 25, DN 32, DN 40, DN 50, DN 65, DN 80, DN 100, DN 125, DN 150, DN 200, DN 250, DN 300, DN 350, DN 400, DN 450 and DN 500;

— for screwed valves: sizes NPS ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½ and 3;

— for weld end valves: sizes DN 8, DN 10, DN 15, DN 20, DN 25, DN 32, DN 40, DN 50, DN 65, DN 80, DN 100, DN 125, DN 150 and DN 200.

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NOTE 1 Sizes are listed in Table D.1.

This document applies to metallic diaphragm valves used for all industrial applications.

For applications in accordance with the European legislation for pressure equipment, EN 16668:2025 applies together with this document.

Additional requirements given in the relevant application standards can apply to diaphragm valves used for more specific applications (e.g. for the water industry, the chemical and petrochemical process industry).

For chemical and petrochemical applications, EN 12569:2020 apply together with this document.

For water supply applications, EN 1074-1:2000 and EN 1074-2:2000 apply together with this document.

NOTE 2 National potable water approval schemes (WRAS, DVGW, ACS, etc.) can apply in addition to the valve design standards.

For process control applications, EN 1349:2009 and EN 60534-2-1:2011 apply together with this document.

For cryogenic applications, EN 1626:2008 apply together with this document.

For fire-safe applications, EN ISO 10497:2022 apply together with this document.

For fugitive emissions applications, EN ISO 15848-1:2015+A1:2017 and EN ISO 15848-2:2015 apply together with this document.

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Other specific application standards, regulatory requirements, purchaser specifications or national approval schemes can also exist and can apply depending on the intended service, installation location, fluid, pressure/temperature conditions and end-use application.

The correspondence between DN and NPS is given for information in Annex C.

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 19:2023, *Industrial valves — Marking of metallic valves*

EN 558:2022, *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 736-1:2018, *Valves — Terminology — Part 1: Definition of types of 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 764-1:2015+A1:2016, *Pressure equipment — Part 1: Vocabulary*

EN 1074-2:2000,[1] *Valves for water supply — Fitness for purpose requirements and appropriate verification tests — Part 2: Isolating valves*

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EN 1092-1:2018, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, PN designated — Part 1: Steel flanges*

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EN 1092-2:2023, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, PN designated — Part 2: Cast iron flanges*

EN 1092-3:2003, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, PN designated — Part 3: Copper alloy flanges*

EN 1092-4:2002, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, PN designated — Part 4: Aluminium alloy flanges*

EN 1267:2012, *Industrial valves — Test of flow resistance using water as test fluid*

EN 1349:2009, *Industrial process control valves*

EN 1626:2008, *Cryogenic vessels — Valves for cryogenic service*

EN 1759-1:2004, *Flanges and their joint — Circular flanges for pipes, valves, fittings and accessories, Class designated — Part 1: Steel flanges, NPS 1/2 to 24*

EN 1759-3:2003, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, Class designated — Part 3: Copper alloy flanges*

[1] Document impacted by EN 1074-2:2000/A1:2004.

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