SLOVENSKI STANDARD
oSIST prEN 18191:2025

01-junij-2025

Industrijski ventili - Dodatne zahteve za kovinske ventile za vodik

Industrial valves - Additional requirements for metallic valves for hydrogen application

Industriearmaturen - Zusätzliche Anforderungen an metallische Armaturen für Wasserstoffanwendungen

Robinetterie industrielle - Exigences supplémentaires pour les appareils de robinetterie métalliques pour application hydrogène

Ta slovenski standard je istoveten z: **prEN 18191**

ICS:

23.060.01	Ventili na splošno	Valves in general
27.075	Tehnologija vodika	Hydrogen technologies

oSIST prEN 18191:2025 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN 18191

May 2025

ICS 23.060.01; 27.075

English Version

Industrial valves - Additional requirements for metallic valves for hydrogen application

Robinetterie industrielle - Exigences supplémentaires pour les appareils de robinetterie métalliques pour application hydrogène

Industriearmaturen - Zusätzliche Anforderungen an metallische Armaturen für Wasserstoffanwendungen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 69.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN 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.

CEN members are the national standards bodies of 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, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. prEN 18191:2025 E

Contents

Page

European foreword

This document (prEN 18191:2025) 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.

Introduction

Metallic industrial valves are considered as essential pressure accessories in hydrogen applications. They are used in various hydrogen technologies applications, for example production, processing, storage, transportation, distribution, and usage.

Metallic industrial valves are integral pressure accessories of industrial piping, gas transportation and distribution systems.

CEN/TC 69 worked in cooperation with the following other technical committees: CEN/TC 267, CEN/TC 54, CEN/TC 234 and CEN/TC 235.

This document defines additional requirements for metallic industrial valves for hydrogen application published in EN standards and establishes the relationship to harmonized EN standards covering material, design considerations, specific manufacturing processes and final assessment (testing and inspection).

The document is an application standard to provide consolidation of requirements on known and proven solutions for hydrogen applications. Furthermore, it is intended to describe or exclude specific technical matters.

For this purpose, the standard addresses damage mechanisms of hydrogen services, which might exist in combinations.