This is a preview of BS EN 12259-12:2023+A1:2026. Click here to purchase the full version from the ANSI store.

BSI Standards Publication

Fixed firefighting systems — Components for sprinkler and water spray systems

Part 12: Pumps



This is a preview of BS EN 12259-12:2023+A1:2026. Click here to purchase the full version from the ANSI store.

National foreword

This British Standard is the UK implementation of EN 12259-12:2023+A1:2026. It supersedes BS EN 12259-12:2023, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee FSH/18/2, Sprinkler Systems.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2026
Published by BSI Standards Limited 2026

ISBN 978 0 539 37106 2

ICS 13.220.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2023.

Amendments/corrigenda issued since publication

Date	Text affected
31 July 2026	Implementation of CEN amendment A1:2026

This is a preview of BS EN 12259-12:2023+A1:2026. Click here to purchase the full version from the ANSI store.

EUROPEAN STANDARD **EN 12259-12:2023+A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2026

ICS 13.220.20

Supersedes EN 12259-12:2023

English Version

Fixed firefighting systems - Components for sprinkler and water spray systems - Part 12: Pumps

Installations fixes de lutte contre l'incendie - Composants des systèmes d'extinction du type sprinkleur et à pulvérisation d'eau - Partie 12 : Pompes

Ortsfeste Brandbekämpfungsanlagen - Bauteile für Sprinkler- und Sprühwasseranlagen - Teil 12: Sprinklerpumpen

This European Standard was approved by CEN on 23 July 2023 and includes Amendment 1 approved by CEN on 13 May 2026.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

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.



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

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

© 2026 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 12259-12:2023+A1:2026 E

This is a preview of BS EN 12259-12:2023+A1:2026. Click here to purchase the full version from the ANSI store.

Contents

Page

European foreword ... 3

1 Scope ... 4

2 Normative references ... 4

3 Terms, definitions, symbols and abbreviated terms ... 4
3.1 Terms and definitions ... 4
3.2 Symbols and abbreviated terms ... 5

4 Assessment methods and criteria ... 5
4.1 Characteristic curves, minimum flow and rotational speed tests ... 5
4.1.1 Assessment method ... 5
4.1.2 Criteria for rotational speed ... 6
4.1.3 Criteria for characteristic curves ... 6
4.2 Minimum flow ... 7
4.2.1 Assessment method ... 7
4.2.2 Criteria ... 7
4.3 Pump materials ... 7
4.3.1 Assessment method ... 7
4.3.2 Criteria ... 7
4.4 Pump casing strength ... 7
4.4.1 Assessment method ... 7
4.4.2 Criteria ... 7
4.5 Pump leakage test ... 8
4.5.1 Assessment method ... 8
4.5.2 Criteria ... 8
4.6 Stress calculations ... 8
4.6.1 Assessment method ... 8
4.6.2 Criteria ... 8

5 Marking and documentation ... 8
5.1 General ... 8
5.2 Marking ... 9
5.3 Documentation ... 9

Annex A (informative) Example pump characteristic curve sheets ... 11

Annex B (informative) Specimen of manufacturer's name plate ... 14

Bibliography ... 15

This is a preview of BS EN 12259-12:2023+A1:2026. Click here to purchase the full version from the ANSI store.

European foreword

This document (EN 12259-12:2023+A1:2026) has been prepared by Technical Committee CEN/TC 191 “Fixed firefighting systems”, the secretariat of which is held by BSI.

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 January 2027, and conflicting national standards shall be withdrawn at the latest by January 2027.

This document includes Amendment 1 approved by CEN on 13 May 2026.

This document supersedes ▌A1⟩ EN 12259-12:2023 ⟨A1▌.

The start and finish of text introduced or altered by amendment is indicated in the text by tags ▌A1⟩ ⟨A1▌.

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.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, Türkiye and the United Kingdom.

This is a preview of BS EN 12259-12:2023+A1:2026. Click here to purchase the full version from the ANSI store.

1 Scope

This document specifies requirements for single stage and multi-stage centrifugal pumps with mechanical seal or soft packing for use in automatic sprinkler systems and is for use with EN 12845 and EN 17451.

This document is applicable for the following pumps, independent of installed orientation (vertical, horizontal or sloped according to the manufacturer indications):

— end suction pumps (close coupled or long coupled) of the back pull-out type pump;

— axial horizontal split case pumps;

— ring section pumps including multistage single or multi outlet;

— single or multistage inline pumps (pump with inlet and outlet in line);

— submersible motor borehole pumps.

This document is also applicable to vertical turbine pumps.

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 809, *Pumps and pump units for liquids — Common safety requirements*

EN 12162:2001+A1:2009, *Liquid pumps - Safety requirements - Procedure for hydrostatic testing*

EN 12845, *Fixed firefighting systems — Automatic sprinkler systems — Design, installation and maintenance*

EN ISO 9906:2012, *Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1, 2 and 3 (ISO 9906:2012)*

EN ISO 17769-1, *Liquid pumps and installation - General terms, definitions, quantities, letter symbols and units - Part 1: Liquid pumps (ISO 17769-1)*

ISO 3069:2000, *End-suction centrifugal pumps — Dimensions of cavities for mechanical seals and for soft packing*

3 Terms, definitions, symbols and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12845, EN ISO 17769-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/