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**I.S. EN 1092-4:2002**

ICS 23.040.60

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# FLANGES AND THEIR JOINTS - CIRCULAR FLANGES FOR PIPES, VALVES, FITTINGS AND ACCESSORIES, PN DESIGNATED - PART 4: ALUMINIUM ALLOY FLANGES

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# EUROPEAN STANDARD
# NORME EUROPÉENNE
# EUROPÄISCHE NORM

# EN 1092-4

May 2002

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English version

## Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 4: Aluminium alloy flanges

Brides et leurs assemblages - Brides circulaires pour tubes, appareils de robinetterie, raccords et accessoires, désignées PN - Partie 4 Brides en alliages d'aluminium

Flansche und ihre Verbindungen - Runde Flansche für Rohre, Armaturen, Formstücke und Zubehörteile, nach PN bezeichnet - Teil 4: Flansche aus Aluminiumlegierungen

This European Standard was approved by CEN on 28 March 2002

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## Foreword

This document EN 1092-4:2002 has been prepared by Technical Committee CEN/TC 74 "Flanges and their joints", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by November 2002, and conflicting national standards shall be withdrawn at the latest by November 2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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

EN 1092 consists of the following four parts:
Part 1: Steel flanges;
Part 2: Cast iron flanges;
Part 3: Copper alloy flanges;
Part 4: Aluminium alloy flanges.

The mating dimensions of the flanges of this standard are compatible with those flanges of other materials in accordance with the other parts of EN 1092 and with those flanges of ISO 7005.

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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# 1 Scope

This European Standard specifies requirements for PN designated circular flanges for pipes, valves, fittings and accessories made from aluminium alloy in the range of DN 15 to DN 600 and PN10 to PN 63 (see Table 1).

This European Standard specifies the types of flanges and their facings, dimensions and tolerances, bolt sizes, surface finish of jointing faces, marking and materials together with associated pressure/temperature (*p*/*T*) ratings.

The flanges are intended to be used for piping as well as for pressure vessels.

# 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or provisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 764, *Pressure equipment - Terminology and symbols - Pressure, temperature, volume.*

EN 1333, *Pipework components - Definition and selection of PN.*

EN 1514, *Flanges and their joints - Dimensions of gaskets for PN-designated flanges.*

EN 1515-1, *Flanges and their joints - Bolting - Part 1: Selection of bolting.*

EN 12392, *Aluminium and aluminium alloys - Wrought products - Special requirements for products intended for the production of pressure equipment.*

EN ISO 887, *Plain washers for metric bolts, screws and nuts for general purposes - General plan (ISO 887:2000).*

EN ISO 4287, *Geometrical product specifications (GPS) - Surface texture: Profile method - Terms, definitions and surface texture parameters (ISO 4287:1997).*

EN ISO 6708, *Pipework Components - Definition and selection of DN (nominal size) (ISO 6708:1995).*

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