

Flanges and their joints — Design rules for gasketed circular flange connections —

Part 4: Qualification of personnel competency in the assembly of bolted joints fitted to equipment subject to the Pressure Equipment Directive

ICS 23.040.60

National foreword

This Draft for Development is the UK implementation of CEN/TS 1591-4:2007.

This publication is not to be regarded as a British Standard.

It is being issued in the Draft for Development series of publications and is of a provisional nature. It should be applied on this provisional basis, so that information and experience of its practical application can be obtained.

Comments arising from the use of this Draft for Development are requested so that UK experience can be reported to the European organization responsible for its conversion to a European standard. A review of this publication will be initiated not later than 3 years after its publication by the European organization so that a decision can be taken on its status. Notification of the start of the review period will be made in an announcement in the appropriate issue of *Update Standards*.

According to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion into a European Standard, to extend the life of the Technical Specification or to withdraw it. Comments should be sent to the Secretary of the responsible BSI Technical Committee at British Standards House, 389 Chiswick High Road, London W4 4AL.

The UK participation in its preparation was entrusted to Technical Committee PSE/15, Flanges.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments issued since publication

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English Version

**Flanges and their joints - Design rules for gasketed circular
flange connections - Part 4: Qualification of personnel
competency in the assembly of bolted joints fitted to equipment
subject to the Pressure Equipment Directive**

Brides et leurs assemblages - Règles de calcul des
assemblages à brides circulaires avec joint - Partie 4 :
Qualification des compétences du personnel en charge du
montage des assemblages boulonnés sur des équipements
relevant de la Directive Équipements sous pression

Flansche und ihre Verbindungen - Regeln für die
Auslegung von Flanschverbindungen mit runden Flanschen
und Dichtung - Teil 4: Qualifizierung der Kompetenz von
Personal zur Montage von Schraubverbindungen im
Geltungsbereich der Druckgeräte-Richtlinie

This Technical Specification (CEN/TS) was approved by CEN on 26 May 2007 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (CEN/TS 1591-4:2007) has been prepared by Technical Committee CEN/TC 74 “Flanges and their joints”, the secretariat of which is held by DIN.

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.

The integrity of a bolted joint is key in any pressure containment system and should be subjected to personnel competence. The aim of this document is to offer a procedure for training and competency assessment of personnel who disassemble, assemble and tighten bolted joints under the Pressure Equipment Directive 97/23/EC.

EN / ENV / CEN/TS 1591 *Flanges and their joints — Design rules for gasketed circular flange connections* consists of the following parts:

Part 1: Calculation method (EN)

Part 2: Gasket parameters (ENV)

Part 3: Calculation method for metal to metal contact type flanged joint (CEN/TS)

Part 4: Qualification of personnel competency in the assembly of bolted joints fitted to equipment subject to the Pressure Equipment Directive (CEN/TS)

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