

Metallic materials - Tube - Flanging test (ISO 8494:2013)

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NATIONAL FOREWORD

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English Version

Metallic materials - Tube - Flanging test (ISO 8494:2013)

Matériaux métalliques - Tubes - Essai de rabatement de
collerette (ISO 8494:2013)

Metallische Werkstoffe - Rohr - Bördelversuch (ISO
8494:2013)

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EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 8494:2013) has been prepared by Technical Committee ISO/TC 164 "Mechanical testing of metals" in collaboration with Technical Committee ECISS/TC 110 "Steel tubes, and iron and steel fittings" the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by May 2014, and conflicting national standards shall be withdrawn at the latest by May 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 8494:2004.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 8494:2013 has been approved by CEN as EN ISO 8494:2013 without any modification.

Contents		Page
Foreword		iv
1	Scope	1
2	Symbols, designations and units	1
3	Principle	2
4	Testing equipment	2
5	Test piece	2
6	Procedure	2
7	Test report	3

Metallic materials — Tube — Flanging test

1 Scope

This International Standard specifies a method for determining the ability of metallic tubes of circular cross-section to undergo plastic deformation during flange formation.

This International Standard is intended for tubes having an outside diameter no greater than 150 mm and a wall thickness no greater than 10 mm, although the range of diameters or wall thickness for which this International Standard is applicable may be more exactly specified in the relevant product standard.

2 Symbols, designations and units

Symbols, designations and units for the flanging test of tubes are given in [Table 1](#) and are shown in [Figure 1](#).

Table 1

Symbol	Designation	Unit
a^a	Wall thickness of the tube	mm
D	Original outside diameter of the tube	mm
D_u	Maximum outside diameter of the flange	mm
L	Length of the test piece before the test	mm
R	Corner radius of the flanging tool	mm
b	Angle of the conical mandrel	degree

^a The symbol T is also used in steel tube standards..

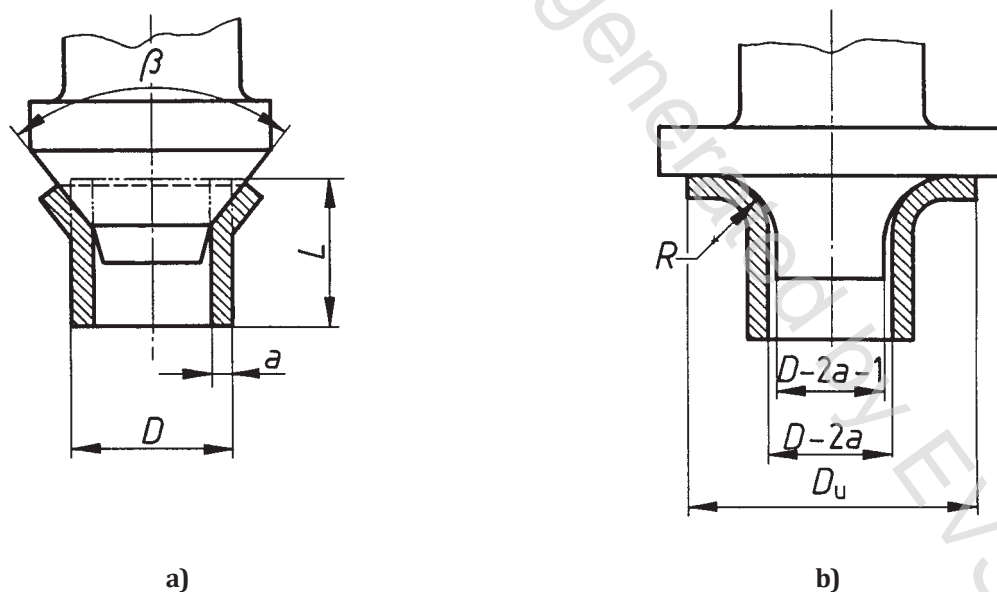


Figure 1