



**NSAI**  
Standards

Irish Standard  
I.S. EN 4802:2017

# Aerospace series - Flange couplings - Swivel flange with 3 fastening holes, in nickel alloy - Inch series

**I.S. EN 4802:2017**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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## National Foreword

I.S. EN 4802:2017 is the adopted Irish version of the European Document EN 4802:2017, Aerospace series - Flange couplings - Swivel flange with 3 fastening holes, in nickel alloy - Inch series

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**EUROPEAN STANDARD**

**EN 4802**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

May 2017

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English Version

## **Aerospace series - Flange couplings - Swivel flange with 3 fastening holes, in nickel alloy - Inch series**

Série aérospatiale - Raccordement à bride - Brides flottantes avec 3 trous de fixation, en alliage de nickel - Série en inches

Luft- und Raumfahrt - Rohrverschraubung mit Flanschen - Lose Flansche mit 3 Befestigungslöchern, aus Nickellegierung - Inch-Reihe

This European Standard was approved by CEN on 21 November 2016.

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

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## **European foreword**

This document (EN 4802:2017) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this European Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

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of an identical text or by endorsement, at the latest by November 2017, and conflicting national standards shall be withdrawn at the latest by November 2017.

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**EN 4802:2017 (E)****1 Scope**

This European Standard specifies the characteristics of swivel flanges, 3 holes, for flange couplings in nickel alloy for inch series aerospace applications.

Nominal pressure: up to 21 000 kPa; depends on the associated seal, tube material, tube diameter and tube wall thickness in the assembly (see EN 4814).

NOTE Assembly in accordance with TR 4815.

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2424, *Aerospace series — Marking of aerospace products*

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys*

EN 3671, *Aerospace series — Heat resisting alloy NI-PH3601 (NiCr22Mo9Nb) — Non heat treated — Forging stock —  $a$  or  $D \leq 250$  mm*

EN 4376, *Aerospace series — Heat resisting alloy NiCr19Fe19Nb5Mo3 (2.4668) solution treated and precipitation treated — Bar and section —  $D_e \leq 200$  mm*

EN 4377, *Aerospace series — Heat resisting alloy NiCr19Fe19Nb5Mo3 (2.4668) — Non heat treated — Forging stock —  $a$  or  $D \leq 300$  mm*

EN 4379, *Aerospace series — Heat resisting alloy NI-PH3601 (NiCr22Mo9Nb) — Solution treated, forging  $D_e \leq 200$  mm*

EN 4380, *Aerospace series — Heat resisting alloy NI-PH3601 (NiCr22Mo9Nb) — Solution treated — Bar and section —  $D_e \leq 200$  mm<sup>1)</sup>*

EN 4814, *Aerospace series — Flange couplings up to 21 000 kPa — Technical specification — Inch series*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

TR 4815, *Aerospace series — Flange couplings up to 21 000 kPa — Design standard — Inch series<sup>2)</sup>*

**3 Required characteristics****3.1 Configuration – Dimensions – Tolerances – Masses**

See Figure 1 and Table 2. Dimensions and tolerances are in millimetres, except otherwise specified.

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<sup>1)</sup> Published as ASD-STAN Prestandard at the date of publication of this European Standard. (<http://www.asd-stan.org/>)

<sup>2)</sup> Published as ASD-STAN Technical Report at the date of publication of this European Standard. (<http://www.asd-stan.org/>)



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