Irish Standard
I.S. EN 4808:2017

Aerospace series - Flange couplings - Weld coupling, 90° elbow, in nickel alloy - Inch series

I.S. EN 4808:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 4808:2017 is the adopted Irish version of the European Document EN 4808:2017, Aerospace series - Flange couplings - Weld coupling, 90° elbow, in nickel alloy - Inch series

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4808

May 2017

ICS 49.080

English Version

Aerospace series - Flange couplings - Weld coupling, 90° elbow, in nickel alloy - Inch series

Série aérospatiale - Raccordement à bride - Raccord à souder, coude à 90°, en alliage de nickel - Série en inches

Luft- und Raumfahrt - Rohrverschraubung mit Flanschen - Schweißstutzen, Winkelstutzen 90°, aus Nickellegierung - Inch-Reihe

This European Standard was approved by CEN on 14 November 2016.

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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.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 4808:2017) 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 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of an identical text or by endorsement, at the latest by November 2017, and conflicting national standards shall be withdrawn at the latest by November 2017.

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1 Scope

This standard specifies the characteristics of straight welded coupling in nickel alloy for swivel flange couplings for inch series aerospace applications.

Nominal pressure: The parts shall withstand nominal pressures given in Table 1. The nominal pressure of the assembly depends on associated seal, tube material characteristics, tube diameter and tube wall thickness (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 resistant 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 ≤ 250 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*[1)]

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 Defence Organizations*

TR 4815, *Aerospace series — Flange couplings up to 21 000 kPa — Design standard — Inch series*[2)]

SAE AMS 5383, *Nickel Alloy, Corrosion and Heat Resistant, Investment Castings, 52.5Ni 19Cr 3.0Mo 5.1(Cb+Ta) 0.90Ti 0.60Al 18Fe, Vacuum Melted, Homogenization and Solution Heat Treated*[3)]

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

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

3.2 Material and surface treatment

SAE AMS 5383 or EN 4380 or EN 3671 or EN 4379.

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1) Published as ASD-STAN Prestandard at the date of publication of this standard. (http://www.asd-stan.org/)

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

3) Published by: SAE National (US) Society of Automotive Engineers.(http://www.sae.org/)