
**Aerospace — Metric series pipe
coupling 8°30' up to 28 000 kPa
dynamic beam seal — Technical
specification**

This document is a preview generated by EVS



This document is a preview generated by ERS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
3.1 Coupling.....	2
3.2 Surface defects.....	2
3.3 Quality assurance.....	3
4 Symbols	4
5 Requirements, inspection and test methods	4
5.1 Test conditions and preparation of specimens for qualification.....	4
5.1.1 General.....	4
5.1.2 Tests fluids.....	4
5.1.3 Specimen preparation.....	4
5.1.4 Pipe assembly.....	4
6 Quality assurance	16
6.1 Product qualification.....	16
6.2 Quality control records.....	16
6.3 Acceptance conditions.....	16
6.4 Rejection.....	17
6.5 Purchaser's (user's) quality control.....	17
7 Preparation for delivery	17
7.1 Cleaning.....	17
7.2 Preservation and packaging.....	17
Annex A (normative) Production batch identification	21
Bibliography	23

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by the Aerospace and Defence Industries Association of Europe – Standardization (ASD-STAN) as EN 3275:2019 and drafted in accordance with its editorial rules. It was assigned to Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*, and adopted, without modification other than those given below, under the "fast-track procedure".

The main changes compared to EN 3275:2019 are as follows:

- the title was changed to have no more than three elements;
- [Clause 2](#), normative references, was updated to only list references cited normatively in the text;
- [Clause 3](#), terms and definitions, was updated to follow the rules of ISO/IEC Directives, Part 2, 2018;
- the tables were renumbered to follow the rules of ISO/IEC Directives, Part 2, 2018;
- Example 3 in [A.1.3](#) was changed to normal body text as it contains a requirement;
- [Figure 4](#) and [Figure 7](#) were changed to be language neutral.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Aerospace — Metric series pipe coupling 8°30' up to 28 000 kPa dynamic beam seal — Technical specification

1 Scope

This document specifies the required characteristics, inspection and test methods, quality assurance and procurement requirements for metric series 8°30' dynamic beam seal pipe couplings, for temperature ranges type II and III according to ISO 6771 and nominal pressure up to 28 000 kPa.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2813, *Aerospace series — Aluminium alloy AL-P-6061- — T6 — Drawn tube for pressure applications — 0,6 mm ≤ a ≤ 12,5 mm*

EN 3120, *Aerospace series — Titanium alloy TI-P64003 — Cold worked and stress relieved — Seamless tube for pressure systems — 4 mm ≤ D ≤ 51 mm, 690 MPa ≤ R_m ≤ 1 030 MPa*

EN 10204, *Metallic products — Types of inspection documents*

ISO 1302, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*

ISO 2685, *Aircraft — Environmental test procedure for airborne equipment — Resistance to fire in designated fire zones*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 5855 (all parts), *Aerospace — MJ threads*

ISO 6771, *Aerospace — Fluid systems and components — Pressure and temperature classifications*

ISO 6772, *Aerospace — Fluid systems — Impulse testing of hydraulic hose, tubing and fitting assemblies*

ISO 7137, *Aircraft — Environmental conditions and test procedures for airborne equipment*

ISO 7257, *Aircraft — Hydraulic tubing joints and fittings — Rotary flexure test*

ISO 8625-1, *Aerospace — Fluid systems — Vocabulary — Part 1: General terms and definitions related to pressure*

ISO 9538, *Aerospace series — Hydraulic tubing joints and fittings — Planar flexure test*

TR 2674,¹⁾ *Design and construction of pipeline for fluids in liquid or gaseous condition — Rigid lines, installation*

1) Published as ASD-STAN Technical Report at the date of publication of this standard by AeroSpace and Defence industries Association of Europe – Standardization (ASD-STAN) (www.asd-stan.org).