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**Aeronavtika - Statični O-obročni tesnilni elementi za ravni cevni spojnik z navojem iz etilen-propilena, brizgani, odporni proti fosfatnemu estru (-55 °C do 107 °C) - Palčne mere**

Aerospace series - Static seal elements O-Ring straight thread tube fitting boss, ethylene-propylene, moulded, phosphate ester resistant (- 55 °C to 107 °C) - Inch series

Luft- und Raumfahrt - Statische Dichtungen O-Ring, für gerade Einschraubstutzen mit Bund, Ethylen-Propylen, geformt, beständig gegen Phosphorsäureester (- 55 °C bis 107 °C) - Inch Reihe

Série aérospatiale - Joint torique statique pour raccord à embout mâle épaulé, éthylène-propylène, moulé, résistant à l'ester phosphorique (- 55 °C à 107 °C) - Série en inches

**Ta slovenski standard je istoveten z: EN 6076:2017**

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**ICS:**

23.040.80	Tesnila za cevne zveze	Seals for pipe and hose assemblies
49.035	Sestavni deli za letalsko in vesoljsko gradnjo	Components for aerospace construction

**SIST EN 6076:2017**

**en,fr,de**

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EUROPEAN STANDARD

EN 6076

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2017

ICS 49.035

English Version

## Aerospace series - Static seal elements O-Ring for straight thread tube fitting boss, ethylene-propylene, moulded, phosphate ester resistant (-55 °C to 107 °C) - Inch series

Série aérospatiale - Joint torique statique pour raccord à embout mâle épaulé, éthylène-propylène, moulé, résistant à l'ester phosphorique (-55 °C à 107 °C) - Série en inches

Luft- und Raumfahrt - Statische Dichtungen O-Ring, für gerade Einschraubstutzen mit Bund, Ethylen-Propylen, geformt, beständig gegen Phosphorsäureester (-55 °C bis 107 °C) - Inch Reihe

This European Standard was approved by CEN on 4 December 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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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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## European foreword

This document (EN 6076:2017) 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.

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.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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**EN 6076:2017 (E)****1 Scope**

This European Standard specifies the characteristics of configuration, dimensions, tolerances and mass for moulded O-Ring seal elements, phosphate ester fluid resistant, for straight thread tube fitting boss for use as static seals in hydraulic systems for aerospace application.

Application temperature range: –55 °C to 107 °C of continuous operation.

**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 6109, *Aerospace series — Static seal elements elastomer moulded, phosphate ester resistant — Technical specification*<sup>1)</sup>

EN 6111, *Aerospace series — Ethylene-propylene elastomer (EPM/EPDM) — Hardness 80 IRHD for static seal elements in hydraulic systems for long-term application — Material standard*<sup>1)</sup>

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

**3 Requirements**

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**3.1 Configuration, dimensions, tolerances and mass**

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- Configuration shall be in accordance with Figure 1;
- Dimensions shall conform with Figure 1 and Table 1;
- Tolerances shall be in accordance with Table 1;
- Mass shall be in accordance with Table 1.

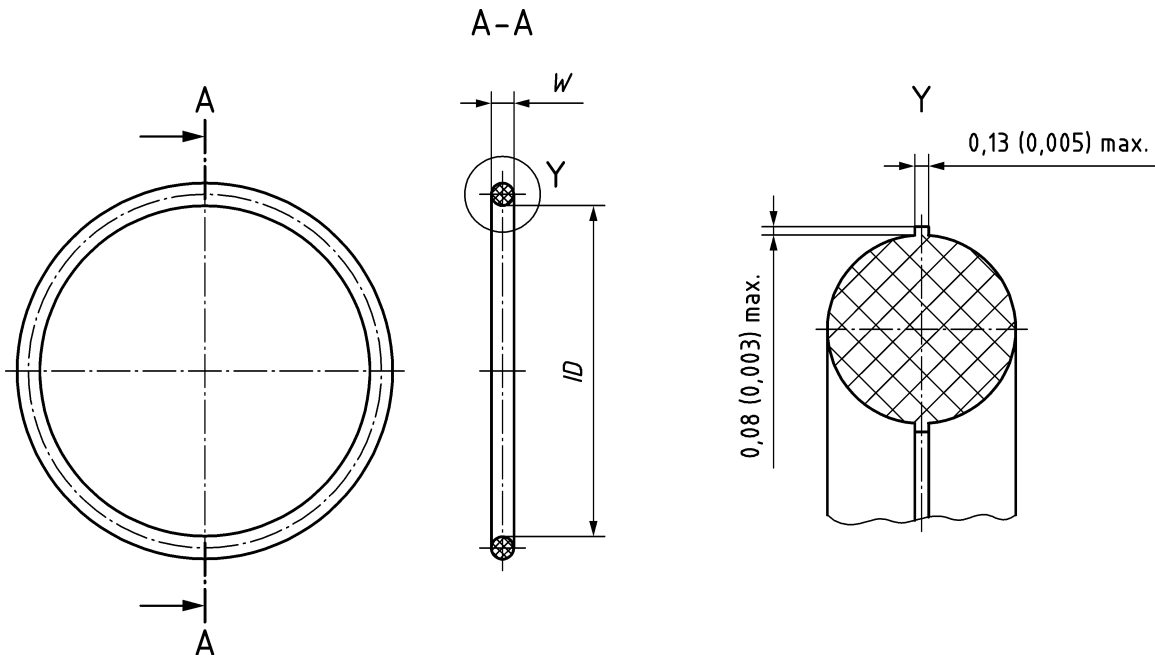
Dimensions and tolerances are expressed in millimetres (inches).

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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/>

### 3.2 Material

Ethylene-propylene elastomer (EPM/EPDM) per EN 6111.



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Figure 1 — Configuration

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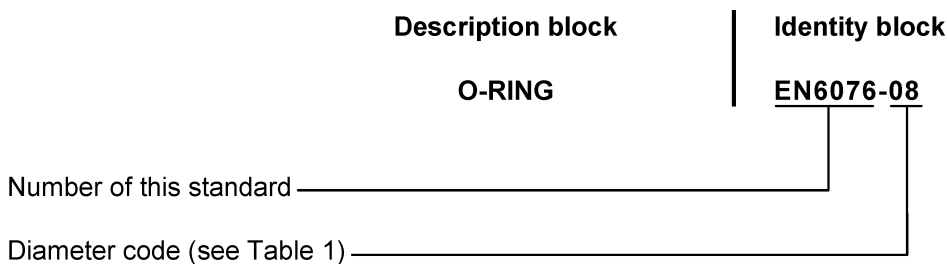
Table 1 — O-Rings - Diameter code, dimensions, tolerances and mass

Diameter code <sup>a</sup>	Tolerances		Mass kg/1000 pieces ±10 %	
02	1,63 (.064)	±0,08 (±.003)	6,07 (.239)	
03			7,65 (.301)	
04	1,83 (.072)	±0,08 (±.003)	8,92 (.351)	
05			10,52 (.414)	
06	1,98 (.078)	±0,08 (±.003)	11,89 (.468)	
08	2,21 (.087)		16,36 (.644)	
10	2,46 (.097)	±0,08 (±.003)	19,18 (.755)	
12	2,95 (.116)		23,47 (.924)	
16		29,74 (1.171)		
20	3,00 (.118)	±0,10 (±.004)	37,47 (1.475)	
24			±0,25 (±.010)	43,69 (1.720)
28				53,09 (2.090)
32			59,36 (2.337)	

<sup>a</sup> The diameter code corresponds to the tube outer diameter (ref.) in 1/16 inch.

**EN 6076:2017 (E)****4 Designation**

EXAMPLE



NOTE If necessary, the code I9005 shall be placed between the description block and the identity block.

**5 Marking and packaging****5.1 Marking of parts**

Each O-Ring shall be marked with two (2) white stripes.

**5.2 Packaging**

All O-Rings shall be individually packaged in suitable and light protected bags. They shall be thoroughly clean before packaging. Packaging shall be accomplished under conditions which will assure freedom from all contamination or damage to the O-Rings. The unit packaging shall be of such material and construction as to protect the O-Ring from contamination until the package is opened.

Each package shall contain the following identification in print of a size that can be easily recognized:

- Phosphate ester resistant;
- O-Ring;
- Standard number of O-Ring (e. g. EN 6076-08);
- Manufacturers part number (if any) and address or trademark;
- Cure date (quarter and year);
- Legend "ETHYLENE PROPYLENE" and "DO NOT FOLD".

**6 Technical specification**

See EN 6109.

**7 Quality assurance**

See EN 9133.