



SLOVENSKI STANDARD SIST EN 6075:2017

01-julij-2017

Aeronavtika - Statični O-obročni tesnilni elementi iz etilen-propilena, brizgani, odporni proti fosfatnemu estru (-55 °C do 107 °C) - Palčne mere

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

Luft- und Raumfahrt - Statische Dichtungen O-Ringe Ethylen-Propylen, geformt, beständig gegen Phosphorsäureester (- 55 °C bis 107 °C) - Inch Reihe

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

<https://standards.iteh.ai/catalog/standards/sist/ec4a9815-2c82-4e43-9c8c-4b710857802f/sist-en-6075-2017>

Ta slovenski standard je istoveten z: EN 6075:2017

ICS:

49.035	Sestavni deli za letalsko in vesoljsko gradnjo	Components for aerospace construction
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SIST EN 6075:2017

en,fr,de

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EUROPEAN STANDARD

EN 6075

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2017

ICS 49.035

English Version

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

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Luft- und Raumfahrt - Statische Dichtungen O-Ringe Ethylen-Propylen, geformt, beständig gegen Phosphorsäureester (- 55 °C bis 107 °C) - Inch Reihe

This European Standard was approved by CEN on 4 December 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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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.

CEN members are the national standards bodies of 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 United Kingdom.



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 6075:2017) 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.

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 6075:2017 (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 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*¹⁾

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*¹⁾

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 (standards.iteh.ai)

- Configuration shall be in accordance with Figure 1; <https://standards.iteh.ai/catalog/standards/sist/ec4a9815-2c82-4e43-9c8c-4b71b8578027/sist-en-6075-2017>
- Dimensions shall conform with Figure 1 and Table 1; <https://standards.iteh.ai/catalog/standards/sist/ec4a9815-2c82-4e43-9c8c-4b71b8578027/sist-en-6075-2017>
- Tolerances shall be in accordance with Table 1;
- Mass shall be in accordance with Table 1.

Dimensions and tolerances are expressed in millimetres (inches).

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

3.2 Material

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

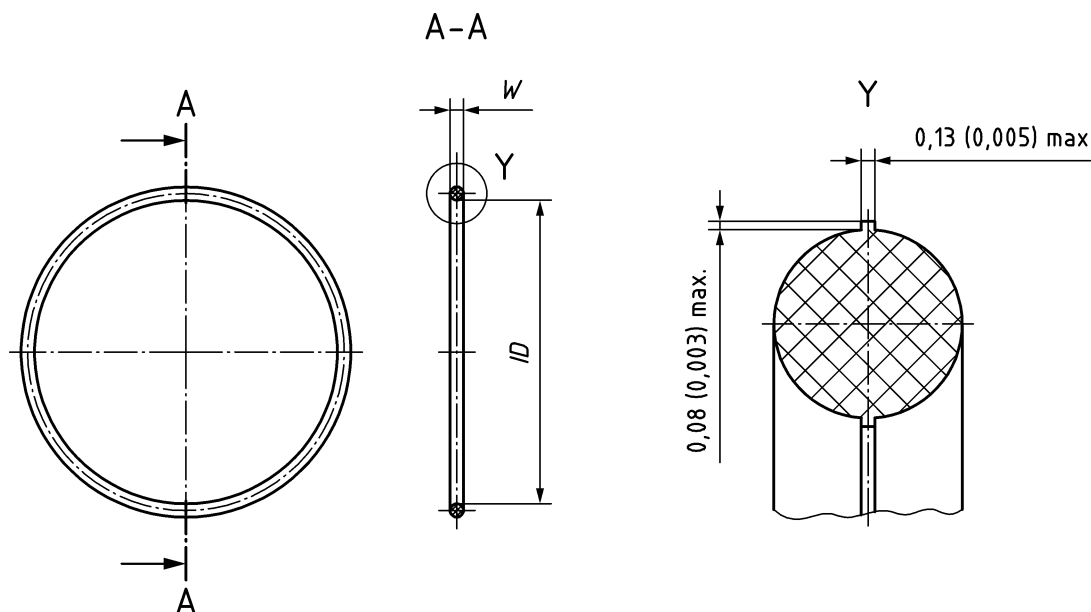


Figure 1 — Configuration
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<https://standards.iteh.ai/catalog/standards/sist/ec4a9815-2c82-4e43-9c8c-4b710857802f/sist-en-6075-2017>

Table 1 — O-Rings - Diameter code, dimensions, tolerances and mass (1 of 9)

Diameter code	ØW		ØID		Mass kg/1000 pieces ±10 %
		Tolerances		Tolerances	
001	1,02 (.040)		0,74 (.029)	±0,10 (±.004)	0,006
002	1,27 (.050)		1,07 (.042)		0,012
003	1,52 (.060)		1,42 (.056)		0,019
004			1,78 (.070)		0,033
005			2,57 (.101)	±0,13 (±.005)	0,040
006			2,90 (.114)		0,042
007			3,68 (.145)		0,051
008			4,47 (.176)		0,058
009			5,28 (.208)		0,066
010			6,07 (.239)		0,072
011			7,65 (.301)		0,087
012			9,25 (.364)		0,100
013			10,82 (.426)		0,115
014			12,42 (.489)		0,131
015			14,00 (.551)	0,145	
016			15,60 (.614)	0,160	
017			17,17 (.676)	0,173	
018			18,77 (.739)	0,190	
019			20,35 (.801)	0,202	
020		21,95 (.864)	0,218		
021	1,78 (.070)	±0,08 (±.003)	23,52 (.926)	±0,15 (±.006)	0,232
022			25,12 (.989)		0,247
023			26,70 (1.051)		0,263
024			28,30 (1.114)		0,275
025			29,87 (1.176)		0,291
026			31,47 (1.239)		0,305
027			33,05 (1.301)	0,320	
028			34,65 (1.364)	±0,25 (±.010)	0,333
029			37,82 (1.489)		0,363
030			40,10 (1.614)		0,393
031			44,17 (1.739)		0,423
032			47,35 (1.864)		0,458
033			50,52 (1.989)		0,480
034			53,70 (2.114)		0,510
035			56,87 (2.239)		0,538
036			60,05 (2.364)		0,567
037			63,22 (2.489)		0,596
038			66,40 (2.614)		0,627

Table 1 — O-Rings - Diameter code, dimensions, tolerances and mass (2 of 9)

Diameter code	ØW		ØID		Mass kg/1000 pieces ±10 %	
		Tolerances		Tolerances		
039	1,78 (.070)	±0,08 (±.003)	69,57 (2.739)	±0,38 (±.015)	0,656	
040			72,75 (2.864)		0,685	
041			75,92 (2.989)		0,713	
042			82,27 (3.239)		0,771	
043			88,62 (3.489)		0,830	
044			94,97 (3.739)		0,889	
045			101,32 (3.989)		0,948	
046			107,67 (4.239)		1,005	
047			114,02 (4.489)		1,063	
048			120,37 (4.739)		1,121	
049			126,72 (4.989)		±0,58 (±.023)	1,181
050			133,07 (5.239)		1,238	
102			2,62 (.103)		±0,08 (±.003)	1,24 (.049)
103	2,06 (.081)	0,093				
104	2,84 (.112)	0,108				
105	3,63 (.143)	0,124				
106	4,42 (.174)	0,141				
107	5,23 (.206)	0,157				
108	6,02 (.237)	0,172				
109	6,79 (.299)	0,202				
110	9,19 (.362)	0,235				
111	11,53 (.424)	0,266				
112	12,37 (.487)	0,297				
113	13,94 (.549)	0,330				
114	15,54 (.612)	0,360				
115	17,12 (.674)	0,392				
116	18,72 (.737)	0,425				
117	20,29 (.799)	±0,15 (±.006)		0,456		
118	21,89 (.862)			0,489		
119	23,47 (.924)			0,519		
120	25,07 (.987)			0,550		
121	26,64 (1.049)			0,583		
122	28,24 (1.112)		0,613			
123	29,82 (1.174)		0,644			
124	31,42 (1.237)		0,677			
125	32,99 (1.299)		0,707			
126	34,59 (1.362)		0,739			
127	36,17 (1.424)	0,771				
128	37,77 (1.487)	0,803				