

METRIC AEROSPACE STANDARD

MA3434™

REV. A

Issued 1997-07
Reaffirmed 2012-12
Revised 2019-07

Superseding MA3434

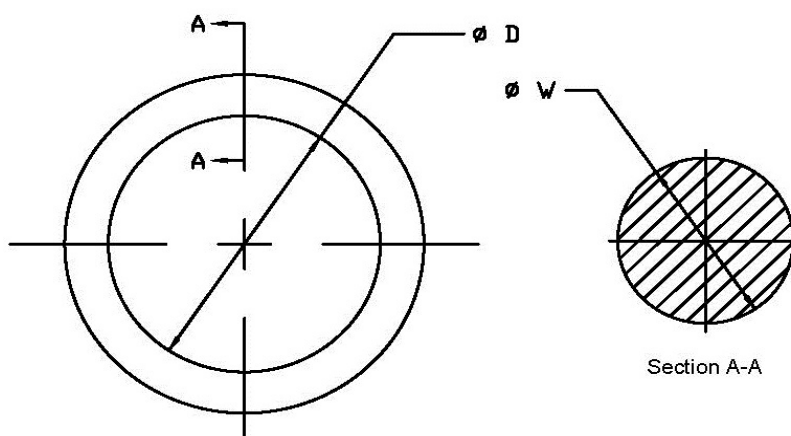
(R) O-Ring Molded from AMS7273 Material, Metric

RATIONALE

This standard has been revised to make its format consistent with other part standards.

FOREWORD

This standard establishes the dimensional and visual quality requirements, lot requirements and packaging and labeling requirements for metric O-rings molded from AMS7273 material. It shall be used for procurement purposes.



Note: Dimensions and tolerancing per ASME Y14.5

Figure 1 - O-ring dimensions - width (W) and inside diameter (D)

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2019 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER:
Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
http://www.sae.org

SAE WEB ADDRESS:

Full document details: SAE MA3434A

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://standards.sae.org/MA3434A>

Documents
Document Sharing Hub

Table 1 - Part numbers and dimensions

O-Ring Size Code	ØD	ØD	ØD	ØW	ØW	Approx Mass	
	(mm)	(mm)	(inch)	(mm)	(inch)		
	Nom	Range	Range	Range	Range	lb/100	kg/100
A0018	1.80	1.67/1.93	0.066/0.076	1.72/1.88	0.068/0.074	0.009	0.0039
A0020	2.00	1.87/2.13	0.074/0.084	1.72/1.88	0.068/0.074	0.009	0.0041
A0022	2.24	2.11/2.37	0.083/0.093	1.72/1.88	0.068/0.074	0.010	0.0044
A0025	2.50	2.37/2.63	0.093/0.104	1.72/1.88	0.068/0.074	0.010	0.0047
A0028	2.80	2.67/2.93	0.105/0.115	1.72/1.88	0.068/0.074	0.011	0.0050
A0031	3.15	3.02/3.28	0.119/0.129	1.72/1.88	0.068/0.074	0.012	0.0054
A0035	3.55	3.42/3.68	0.135/0.145	1.72/1.88	0.068/0.074	0.013	0.0058
A0037	3.75	3.62/3.88	0.143/0.153	1.72/1.88	0.068/0.074	0.013	0.0060
A0040	4.00	3.87/4.13	0.152/0.163	1.72/1.88	0.068/0.074	0.014	0.0063
A0045	4.50	4.37/4.63	0.172/0.182	1.72/1.88	0.068/0.074	0.015	0.0068
A0048	4.87	4.74/5.00	0.187/0.197	1.72/1.88	0.068/0.074	0.016	0.0072
A0050	5.00	4.87/5.13	0.192/0.202	1.72/1.88	0.068/0.074	0.016	0.0074
A0051	5.15	5.02/5.28	0.198/0.208	1.72/1.88	0.068/0.074	0.017	0.0075
A0053	5.30	5.17/5.43	0.204/0.214	1.72/1.88	0.068/0.074	0.017	0.0077
A0056	5.60	5.47/5.73	0.215/0.226	1.72/1.88	0.068/0.074	0.018	0.0080
A0060	6.00	5.87/6.13	0.231/0.241	1.72/1.88	0.068/0.074	0.019	0.0085
A0063	6.30	6.17/6.43	0.243/0.253	1.72/1.88	0.068/0.074	0.019	0.0088
A0067	6.70	6.57/6.83	0.259/0.269	1.72/1.88	0.068/0.074	0.020	0.0092
A0069	6.90	6.76/7.04	0.266/0.277	1.72/1.88	0.068/0.074	0.021	0.0094
A0071	7.10	6.96/7.24	0.274/0.285	1.72/1.88	0.068/0.074	0.021	0.0096
A0075	7.50	7.36/7.64	0.290/0.301	1.72/1.88	0.068/0.074	0.022	0.0101
A0080	8.00	7.86/8.14	0.309/0.320	1.72/1.88	0.068/0.074	0.023	0.0106
A0085	8.50	8.35/8.65	0.329/0.341	1.72/1.88	0.068/0.074	0.025	0.0112
A0087	8.75	8.60/8.90	0.339/0.350	1.72/1.88	0.068/0.074	0.025	0.0114
A0090	9.00	8.85/9.15	0.348/0.360	1.72/1.88	0.068/0.074	0.026	0.0117
A0095	9.50	9.350/9.650	0.368/0.380	1.72/1.88	0.068/0.074	0.027	0.0122
A0100	10.00	9.85/10.15	0.388/0.400	1.72/1.88	0.068/0.074	0.028	0.0128
A0106	10.60	10.44/10.76	0.411/0.424	1.72/1.88	0.068/0.074	0.030	0.0134
A0112	11.20	11.04/11.36	0.435/0.447	1.72/1.88	0.068/0.074	0.031	0.0141
A0118	11.80	11.63/11.97	0.458/0.471	1.72/1.88	0.068/0.074	0.033	0.0148

Table 1 - Part numbers and dimensions (continued)

O-Ring Size Code	ØD (mm)	ØD	ØD	ØW	ØW	Approx Mass	
		(mm)	(inch)	(mm)	(inch)		
		Nom	Range	Range	Range	lb/100	kg/100
A0125	12.50	12.33/12.67	0.485/0.499	1.72/1.88	0.068/0.074	0.044	0.0155
A0132	13.20	13.03/13.37	0.513/0.526	1.72/1.88	0.068/0.074	0.046	0.0162
A0140	14.00	13.82/14.18	0.544/0.558	1.72/1.88	0.068/0.074	0.048	0.0171
A0150	15.00	14.82/15.18	0.583/0.598	1.72/1.88	0.068/0.074	0.052	0.0182
A0160	16.00	15.81/16.19	0.622/0.637	1.72/1.88	0.068/0.074	0.055	0.0193
A0170	17.00	16.80/17.2	0.661/0.677	1.72/1.88	0.068/0.074	0.058	0.0204
A0180	18.00	17.80/18.20	0.701/0.717	1.72/1.88	0.068/0.074	0.061	0.0215
A0190	19.00	18.79/19.21	0.740/0.756	1.72/1.88	0.068/0.074	0.064	0.0226
A0200	20.00	19.79/20.21	0.779/0.796	1.72/1.88	0.068/0.074	0.067	0.0236
A0212	21.20	20.98/21.42	0.826/0.843	1.72/1.88	0.068/0.074	0.071	0.0249
A0224	22.40	22.17/22.63	0.873/0.891	1.72/1.88	0.068/0.074		0.0262
A0236	23.60	23.36/23.84	0.920/0.939	1.72/1.88	0.068/0.074		0.0275
A0250	25.00	24.76/25.24	0.975/0.994	1.72/1.88	0.068/0.074		0.0291
A0258	25.80	25.55/26.05	1.006/1.026	1.72/1.88	0.068/0.074		0.0299
A0265	26.50	26.25/26.75	1.033/1.053	1.72/1.88	0.068/0.074		0.0307
A0280	28.00	27.74/28.26	1.092/1.113	1.72/1.88	0.068/0.074		0.0323
A0300	30.00	29.73/30.27	1.170/1.192	1.72/1.88	0.068/0.074		0.0345
A0315	31.50	31.22/31.78	1.229/1.251	1.72/1.88	0.068/0.074		0.0361
A0325	32.50	32.21/32.79	1.268/1.291	1.72/1.88	0.068/0.074		0.0372
A0335	33.50	33.21/33.79	1.307/1.330	1.72/1.88	0.068/0.074		0.0380
A0345	34.50	34.20/34.80	1.346/1.370	1.72/1.88	0.068/0.074		0.0394
A0355	35.50	35.19/35.81	1.385/1.410	1.72/1.88	0.068/0.074		0.0404
A0365	36.50	36.19/36.81	1.425/1.449	1.72/1.88	0.068/0.074		0.0415
A0375	37.50	37.18/37.82	1.464/1.489	1.72/1.88	0.068/0.074		0.0426
A0387	38.70	38.38/39.02	1.511/1.536	1.72/1.88	0.068/0.074		0.0439
A0400	40.00	39.67/40.33	1.562/1.588	1.72/1.88	0.068/0.074		0.0453
A0412	41.20	40.86/41.54	1.609/1.635	1.72/1.88	0.068/0.074		0.0466
A0425	42.50	42.15/42.85	1.659/1.687	1.72/1.88	0.068/0.074		0.0480
A0437	43.70	43.35/44.05	1.707/1.734	1.72/1.88	0.068/0.074		0.0493
A0450	45.00	44.64/45.36	1.757/1.786	1.72/1.88	0.068/0.074		0.0508

Table 1 - Part numbers and dimensions (continued)

O-Ring Size Code	ØD	ØD	ØD	ØW	ØW	Approx Mass	
	(mm)	(mm)	(inch)	(mm)	(inch)		
	Nom	Range	Range	Range	Range	lb/100	kg/100
A0475	47.50	47.12/47.88	1.855/1.885	1.72/1.88	0.068/0.074	0.118	0.0535
A0500	50.00	49.61/50.39	1.953/1.984	1.72/1.88	0.068/0.074	0.124	0.0562
A0530	53.00	52.59/53.41	2.070/2.103	1.72/1.88	0.068/0.074	0.131	0.0594
A0560	56.00	55.58/56.42	2.188/2.221	1.72/1.88	0.068/0.074	0.138	0.0627
A0600	60.00	59.55/60.45	2.344/2.380	1.72/1.88	0.068/0.074	0.148	0.0670
A0630	63.00	62.54/63.46	2.462/2.498	1.72/1.88	0.068/0.074	0.155	0.0703
A0670	67.00	66.51/67.49	2.619/2.657	1.72/1.88	0.068/0.074	0.164	0.0746
A0710	71.00	70.49/71.51	2.775/2.815	1.72/1.88	0.068/0.074	0.174	0.0789
A0750	75.00	74.47/75.53	2.932/2.974	1.72/1.88	0.068/0.074	0.183	0.0833
A0800	80.00	79.44/80.56	3.128/3.172	1.72/1.88	0.068/0.074	0.195	0.0887
A0850	85.00	84.41/85.59	3.323/3.370	1.72/1.88	0.068/0.074	0.207	0.0941
A0900	90.00	89.38/90.62	3.519/3.568	1.72/1.88	0.068/0.074	0.219	0.0995
A0950	95.00	94.36/95.64	3.715/3.765	1.72/1.88	0.068/0.074	0.231	0.1050
A1000	100.00	99.33/100.67	3.911/3.963	1.72/1.88	0.068/0.074	0.243	0.1104
A1060	106.00	105.29/106.71	4.145/4.201	1.72/1.88	0.068/0.074	0.257	0.1169
A1120	112.00	111.26/112.74	4.380/4.439	1.72/1.88	0.068/0.074	0.272	0.1234
A1180	118.00	117.23/118.77	4.615/4.676	1.72/1.88	0.068/0.074	0.286	0.1299
A1250	125.00	124.19/125.81	4.889/4.953	1.72/1.88	0.068/0.074	0.303	0.1375
B0045	4.50	4.37/4.63	0.172/0.182	2.56/2.74	0.101/0.108	0.060	0.0274
B0053	5.30	5.17/5.43	0.204/0.214	2.56/2.74	0.101/0.108	0.063	0.0286
B0060	6.00	5.87/6.13	0.231/0.241	2.56/2.74	0.101/0.108	0.065	0.0297
B0069	6.90	6.76/7.04	0.266/0.277	2.56/2.74	0.101/0.108	0.069	0.0311
B0080	8.00	7.86/8.14	0.309/0.320	2.56/2.74	0.101/0.108	0.072	0.0326
B0090	9.00	9.30/9.15	0.366/0.360	2.56/2.74	0.101/0.108	0.075	0.0340
B0095	9.50	9.80/9.65	0.386/0.380	2.56/2.74	0.101/0.108	0.078	0.0356
B0100	10.00	10.30/10.15	0.406/0.400	2.56/2.74	0.101/0.108	0.082	0.0372
B0106	10.60	10.92/10.76	0.430/0.424	2.56/2.74	0.101/0.108	0.086	0.0391
B0112	11.20	11.52/11.36	0.454/0.447	2.56/2.74	0.101/0.108	0.091	0.0415

Table 1 - Part numbers and dimensions (continued)

O-Ring Size Code	ØD	ØD	ØD	ØW	ØW	Approx Mass	
	(mm)	(mm)	(inch)	(mm)	(inch)		
	Nom	Range	Range	Range	Range	lb/100	kg/100
B0118	11.80	11.63/11.97	0.458/0.471	2.56/2.74	0.101/0.108	0.075	0.0340
B0125	12.50	12.33/12.67	0.485/0.499	2.56/2.74	0.101/0.108	0.078	0.0356
B0132	13.20	13.03/13.37	0.513/0.526	2.56/2.74	0.101/0.108	0.082	0.0372
B0140	14.00	13.82/14.18	0.544/0.558	2.56/2.74	0.101/0.108	0.086	0.0391
B0150	15.00	14.82/15.18	0.583/0.598	2.56/2.74	0.101/0.108	0.091	0.0415
B0160	16.00	15.81/16.19	0.622/0.637	2.56/2.74	0.101/0.108	0.096	0.0438
B0170	17.00	16.80/17.20	0.661/0.677	2.56/2.74	0.101/0.108	0.102	0.0462
B0180	18.00	17.80/18.20	0.701/0.717	2.56/2.74	0.101/0.108	0.107	0.0485
B0190	19.00	18.79/19.21	0.740/0.756	2.56/2.74	0.101/0.108	0.112	0.0509
B0200	20.00	19.79/20.21	0.779/0.796	2.56/2.74	0.101/0.108	0.117	0.0532
B0212	21.20	20.98/21.42	0.826/0.843	2.56/2.74	0.101/0.108	0.123	0.0560
B0224	22.40	22.17/22.63	0.873/0.891	2.56/2.74	0.101/0.108	0.130	0.0589
B0236	23.60	23.36/23.84	0.920/0.939	2.56/2.74	0.101/0.108	0.136	0.0617
B0250	25.00	24.76/25.24	0.975/0.994	2.56/2.74	0.101/0.108	0.143	0.0650
B0258	25.80	25.55/26.05	1.006/1.026	2.56/2.74	0.101/0.108	0.147	0.0669
B0265	26.50	26.25/26.75	1.033/1.053	2.56/2.74	0.101/0.108	0.151	0.0685
B0280	28.00	27.74/28.26	1.092/1.113	2.56/2.74	0.101/0.108	0.159	0.0720
B0300	30.00	29.73/30.27	1.170/1.192	2.56/2.74	0.101/0.108	0.169	0.0767
B0315	31.50	31.22/31.78	1.229/1.251	2.56/2.74	0.101/0.108	0.177	0.0803
B0325	32.50	32.21/32.79	1.268/1.291	2.56/2.74	0.101/0.108	0.182	0.0826
B0335	33.50	33.21/33.79	1.307/1.330	2.56/2.74	0.101/0.108	0.187	0.0850
B0345	34.50	34.20/34.80	1.346/1.370	2.56/2.74	0.101/0.108	0.192	0.0873
B0355	35.50	35.19/35.81	1.385/1.410	2.56/2.74	0.101/0.108	0.198	0.0897
B0365	36.50	36.19/36.81	1.425/1.449	2.56/2.74	0.101/0.108	0.203	0.0920
B0375	37.50	37.18/37.82	1.464/1.489	2.56/2.74	0.101/0.108	0.208	0.0944
B0387	38.70	38.38/39.02	1.511/1.536	2.56/2.74	0.101/0.108	0.214	0.0972
B0400	40.00	39.67/40.33	1.562/1.588	2.56/2.74	0.101/0.108	0.221	0.1002
B0412	41.20	40.86/41.54	1.609/1.635	2.56/2.74	0.101/0.108	0.227	0.1030
B0425	42.50	42.15/42.85	1.659/1.687	2.56/2.74	0.101/0.108	0.234	0.1061
B0437	43.70	43.35/44.05	1.707/1.734	2.56/2.74	0.101/0.108	0.240	0.1089