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REV. A
AMS-R-83485/1

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5330

RATIONALE

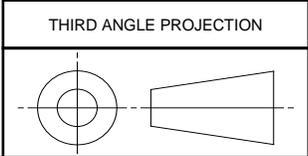
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CUSTODIAN: AMS COMMITTEE "CE"

	AMS SPECIFICATION		AMS-R-83485/1 SUPERSEDED BY AS83485	REV. A
	RUBBER, FLUOROCARBON ELASTOMER, IMPROVED PERFORMANCE AT LOW TEMPERATURES, O-RINGS, SIZES AND TOLERANCES			

ISSUED 2001-03 CANCELLED 2015-06

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	AMS SPECIFICATION	AMS-R-83485/1 SHEET 1 OF 8	REV. A
	RUBBER, FLUOROCARBON ELASTOMER, IMPROVED PERFORMANCE AT LOW TEMPERATURES, O-RINGS, SIZES AND TOLERANCES		

The complete requirements for procuring the o-ring described herein shall consist of this document and the issue in effect of Specification MIL-R-83485 (USAF).

Purpose: The purpose of this specification sheet is to set up a standardized part numbering system for o-rings procured to MIL-R-83485 (USAF).

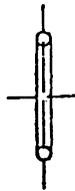
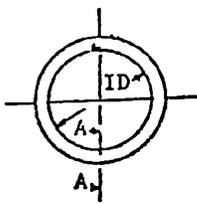
Intended Use. These o-rings are recommended for use in packing glands as specified in MIL-G-5514.

Part Numbers. When this document is used for procurement of o-rings, part numbers shall consist of the following:

1. The letter M and the specification sheet number.
2. A dash followed by the appropriate dash number from Table I or Table II.

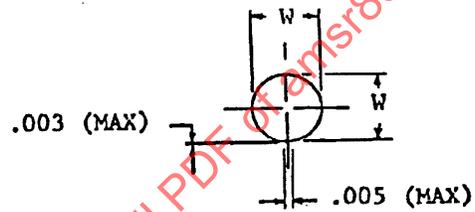
Example 1

M83485/1-214



Example 2

M83485/1-340



AMS SPECIFICATION

RUBBER, FLUOROCARBON ELASTOMER, IMPROVED PERFORMANCE AT LOW TEMPERATURES, O-RINGS, SIZES AND TOLERANCES

AMS-R-83485/1
SHEET 2 OF 8

REV.
A

TABLE I. O-RING SIZES

DASH NO.	ACTUAL SIZE				DASH NO.	ACTUAL SIZE			
	W		ID			W		ID	
001	.040	±.003	.029	±.004	041	.070	±.003	2.989	±.024
002	.050		.042	↓	042	↓	↓	3.239	↓
003	.060		.056	↓	043	↓	↓	3.489	↓
004	.070	±.003	.070	±.005	044	↓	↓	3.739	±.027
005	↓	↓	.101	↓	045	↓	↓	3.989	↓
006	↓	↓	.114	↓	046	↓	↓	4.239	±.030
007	↓	↓	.145	↓	047	↓	↓	4.489	↓
008	↓	↓	.176	↓	048	↓	↓	4.739	↓
009	↓	↓	.208	↓	049	↓	↓	4.989	±.037
010	↓	↓	.239	↓	050	↓	↓	5.239	↓
011	↓	↓	.301	↓	102	.103	±.003	.049	±.005
012	↓	↓	.364	↓	103	↓	↓	.081	↓
013	↓	↓	.426	↓	104	↓	↓	.112	↓
014	↓	↓	.489	↓	105	↓	↓	.143	↓
015	↓	↓	.551	±.007	106	↓	↓	.174	↓
016	↓	↓	.614	±.009	107	↓	↓	.206	↓
017	↓	↓	.676	↓	108	↓	↓	.237	↓
018	↓	↓	.739	↓	109	↓	↓	.299	↓
019	↓	↓	.801	↓	110	↓	↓	.362	↓
020	↓	↓	.864	↓	111	↓	↓	.424	↓
021	↓	↓	.926	↓	112	↓	↓	.487	↓
022	↓	↓	.989	±.010	113	↓	↓	.549	±.007
023	↓	↓	1.051	↓	114	↓	↓	.612	±.009
024	↓	↓	1.114	↓	115	↓	↓	.674	↓
025	↓	↓	1.176	±.011	116	↓	↓	.737	↓
026	↓	↓	1.239	↓	117	↓	↓	.799	±.010
027	↓	↓	1.301	↓	118	↓	↓	.862	↓
028	↓	↓	1.364	±.013	119	↓	↓	.924	↓
029	↓	↓	1.489	↓	120	↓	↓	.987	↓
030	↓	↓	1.614	↓	121	↓	↓	1.049	↓
031	↓	↓	1.739	±.015	122	↓	↓	1.112	↓
032	↓	↓	1.864	↓	123	↓	↓	1.174	±.012
033	↓	↓	1.989	±.018	124	↓	↓	1.237	↓
034	↓	↓	2.114	↓	125	↓	↓	1.299	↓
035	↓	↓	2.239	↓	126	↓	↓	1.362	↓
036	↓	↓	2.364	↓	127	↓	↓	1.424	↓
037	↓	↓	2.489	↓	128	↓	↓	1.487	↓
038	↓	↓	2.614	±.020	129	↓	↓	1.549	±.015
039	↓	↓	2.739	↓	130	↓	↓	1.612	↓
040	↓	↓	2.864	↓					

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TABLE I (CON'T) O-RING SIZES

DASH NO.	ACTUAL SIZE				DASH NO.	ACTUAL SIZE			
	W		ID			W		ID	
131	.103	±.003	1.674	±.015	171	.103	±.003	7.987	±.045
132	↓	↓	1.737	↓	172	↓	↓	8.237	±.050
133	↓	↓	1.799	↓	173	↓	↓	8.487	↓
134	↓	↓	1.862	↓	174	↓	↓	8.737	↓
135	↓	↓	1.925	±.017	175	↓	↓	8.987	↓
136	↓	↓	1.987	↓	176	↓	↓	9.237	±.055
137	↓	↓	2.050	↓	177	↓	↓	9.487	↓
138	↓	↓	2.112	↓	178	↓	↓	9.737	↓
139	↓	↓	2.175	↓	201	.139	±.004	.171	±.005
140	↓	↓	2.237	↓	202	↓	↓	.234	↓
141	↓	↓	2.300	±.020	203	↓	↓	.296	↓
142	↓	↓	2.362	↓	204	↓	↓	.359	↓
143	↓	↓	2.425	↓	205	↓	↓	.421	↓
144	↓	↓	2.487	↓	206	↓	↓	.484	↓
145	↓	↓	2.550	↓	207	↓	↓	.546	±.007
146	↓	↓	2.612	↓	208	↓	↓	.609	±.009
147	↓	↓	2.675	±.022	209	↓	↓	.671	↓
148	↓	↓	2.737	↓	210	↓	↓	.734	±.010
149	↓	↓	2.800	↓	211	↓	↓	.796	↓
150	↓	↓	2.862	↓	212	↓	↓	.859	↓
151	↓	↓	2.987	±.024	213	↓	↓	.921	↓
152	↓	↓	3.237	↓	214	↓	↓	.984	↓
153	↓	↓	3.487	↓	215	↓	↓	1.046	↓
154	↓	↓	3.737	±.028	216	↓	↓	1.109	±.012
155	↓	↓	3.987	↓	217	↓	↓	1.171	↓
156	↓	↓	4.237	±.030	218	↓	↓	1.234	↓
157	↓	↓	4.487	↓	219	↓	↓	1.296	↓
158	↓	↓	4.737	↓	220	↓	↓	1.359	↓
159	↓	↓	4.987	±.035	221	↓	↓	1.421	↓
160	↓	↓	5.237	↓	222	↓	↓	1.484	±.015
161	↓	↓	5.487	↓	223	↓	↓	1.609	↓
162	↓	↓	5.737	↓	224	↓	↓	1.734	↓
163	↓	↓	5.987	↓	225	.139	±.004	1.859	±.018
164	↓	↓	6.237	±.040	226	↓	↓	1.984	↓
165	↓	↓	6.487	↓	227	↓	↓	2.109	↓
166	↓	↓	6.737	↓	228	↓	↓	2.234	±.020
167	↓	↓	6.987	↓	229	↓	↓	2.359	↓
168	↓	↓	7.237	±.045	230	↓	↓	2.484	↓
169	↓	↓	7.487	↓	231	↓	↓	2.609	↓
170	↓	↓	7.737	↓					

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TABLE I (CON'T) O-RING SIZES

DASH NO.	ACTUAL SIZE				DASH NO.	ACTUAL SIZE			
	W		ID			W		ID	
232	.139	±.004	2.734	±.024	273	.139	±.004	9.734	±.055
233	↓	↓	2.859	↓	274	↓	↓	9.984	↓
234	↓	↓	2.984	↓	275	↓	↓	10.484	↓
235	↓	↓	3.109	↓	276	↓	↓	10.984	±.065
236	↓	↓	3.234	↓	277	↓	↓	11.484	↓
237	↓	↓	3.359	↓	278	↓	↓	11.984	↓
238	↓	↓	3.484	↓	279	↓	↓	12.984	↓
239	↓	↓	3.609	±.028	280	↓	↓	13.984	↓
240	↓	↓	3.734	↓	281	↓	↓	14.984	↓
241	↓	↓	3.859	↓	282	↓	↓	15.955	±.075
242	↓	↓	3.984	↓	283	↓	↓	16.955	±.080
243	↓	↓	4.109	↓	284	↓	↓	17.955	±.085
244	↓	↓	4.234	±.030					↓
245	↓	↓	4.359	↓	309	.210	±.005	.412	±.005
246	↓	↓	4.484	↓	310	↓	↓	.475	↓
247	↓	↓	4.609	↓	311	↓	↓	.537	±.007
248	↓	↓	4.734	↓	312	↓	↓	.600	±.009
249	↓	↓	4.859	±.035	313	↓	↓	.662	↓
250	↓	↓	4.984	↓	314	↓	↓	.725	±.010
251	↓	↓	5.109	↓	315	↓	↓	.787	↓
252	↓	↓	5.234	↓	316	↓	↓	.850	↓
253	↓	↓	5.359	↓	317	↓	↓	.912	↓
254	↓	↓	5.484	↓	318	↓	↓	.975	±.010
255	↓	↓	5.609	↓	319	↓	↓	1.037	↓
256	↓	↓	5.734	↓	320	↓	↓	1.100	±.012
257	↓	↓	5.859	↓	321	↓	↓	1.162	↓
258	↓	↓	5.984	↓	322	↓	↓	1.225	↓
259	↓	↓	6.234	±.040	323	↓	↓	1.287	↓
260	↓	↓	6.484	↓	324	↓	↓	1.350	↓
261	↓	↓	6.734	↓	325	↓	↓	1.475	±.015
262	↓	↓	6.984	↓	326	↓	↓	1.600	↓
263	↓	↓	7.234	±.045	327	↓	↓	1.725	↓
264	↓	↓	7.484	↓	328	↓	↓	1.850	↓
265	↓	↓	7.734	↓	329	↓	↓	1.975	±.018
266	↓	↓	7.984	↓	330	↓	↓	2.100	↓
267	↓	↓	8.234	±.050	331	↓	↓	2.225	↓
268	↓	↓	8.484	↓	332	↓	↓	2.350	↓
269	↓	↓	8.734	↓	333	↓	↓	2.475	±.020
270	↓	↓	8.984	↓	334	↓	↓	2.600	↓
271	↓	↓	9.234	±.055	335	↓	↓	2.725	↓
272	↓	↓	9.484	↓	336	↓	↓	2.850	↓

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TABLE I (CON'T) O-RING SIZES

DASH NO.	ACTUAL SIZE				DASH NO.	ACTUAL SIZE			
	W	±.005	ID	±.024		W	±.005	ID	±.060
337	.210	±.005	2.975	±.024	378	.210	±.005	10.475	±.060
338			3.100	↓	379			10.975	↓
339			3.225	↓	380			11.475	±.065
340			3.350	↓	381			11.975	↓
341			3.475	↓	382			12.975	↓
342			3.600	±.028	383			13.975	±.070
343			3.725	↓	384			14.975	↓
344			3.850	↓	385			15.955	±.075
345			3.975	↓	386			16.955	±.080
346			4.100	↓	387			17.955	±.085
347			4.225	±.030	388			18.955	±.090
348			4.350	↓	389			19.955	±.095
349			4.475	↓	390			20.955	↓
350			4.600	↓	391			21.955	±.100
351			4.725	↓	392			22.940	±.105
352			4.850	↓	393			23.940	±.110
353			4.975	±.037	394			24.940	±.115
354			5.100	↓	395			25.940	±.120
355			5.225	↓	425	.275	±.006	4.475	±.033
356			5.350	↓	426			4.600	↓
357			5.475	↓	427			4.725	↓
358			5.600	↓	428			4.850	↓
359			5.725	↓	429			4.975	±.037
360			5.850	↓	430			5.100	↓
361			5.975	↓	431			5.225	↓
362			6.225	±.040	432			5.350	↓
363			6.475	↓	433			5.475	↓
364			6.725	↓	434			5.600	↓
365			6.975	↓	435			5.725	↓
366			7.225	±.045	436			5.850	↓
367			7.475	↓	437			5.975	↓
368			7.725	↓	438			6.225	±.040
369			7.975	↓	439			6.475	↓
370			8.225	±.050	440			6.725	↓
371			8.475	↓	441			6.975	↓
372			8.725	↓	442			7.225	±.045
373			8.975	↓	443			7.475	↓
374			9.225	±.055	444			7.725	↓
375			9.475	↓	445			7.975	↓
376			9.725	↓	446			8.475	±.055
377			9.975	↓					

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