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AEROSPACE STANDARD

AS 568

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Revised

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AEROSPACE SIZE STANDARD FOR O-RINGS

1. PURPOSE

- 1.1 The purpose of this Aerospace Standard (AS) is to set forth a standardized dash numbering system for O-Rings.
- 1.2 It is intended to be used in the preparation of Company, Military, or other Standard Drawings for O-Rings. Each dash number, which should be appended to an appropriate Drawing or Standard number, identifies one nominal size O-Ring only.
- 1.3 No attempt is made in this AS to indicate which of the O-Ring sizes listed under this system should be included in any particular Standard Drawing. Its only purpose is to standardize O-Ring sizes and dimensional tolerances and the means of identifying them dimensionally.

2. GENERAL NOTES

- 2.1 This Aerospace Standard supersedes and cancels ARP 568B.
 - 2.1.1 This AS is identical in content to ARP 568B, which differed from prior issues of ARP 568 in Table format.

Both Class I and Class II tolerances appear in the same Table.

Metric equivalents in International System (SI) units are given for all dimensions.
 - 2.1.2 Calculation of the metric equivalents was done in accord with the rules appearing in SAE J916, rounding off tolerances as recommended in Paragraph 6.2.1, Method A, therein.
 - 2.1.3 Additional sizes have been assigned and included in the Table as follows:

-102 thru -109
-201 thru -209
-309 thru -324
- 2.2 The fabrication shrinkage characteristics of all O-Ring materials are not identical but will allow size standardization according to two sets of dimensional tolerances, tabulated here as Class I and Class II. These Classes differ only by the tolerances specified for the O-Ring ID (inside diameter).
 - 2.2.1 Class I tolerances are intended for O-Rings manufactured from materials that have low mold shrinkage characteristics, such as Nitrile (NBR) rubber or parts machined from materials such as polytetrafluoroethylene. The data for Class I O-Rings are identical to that in the "A" revision to ARP 568, except that the minimum ID for sizes -388 thru -391 has been increased by .005".
 - 2.2.2 Class II tolerances are intended for O-Rings manufactured from materials that have high mold shrinkage characteristics, such as fluoroelastomer (FPM) compounds.
 - 2.2.3 O-Ring sizes of the same dash numbers from Class I and Class II are interchangeable when used in properly designed glands such as MIL-P-5514.

SAE Technical Board rules provide that: "All technical reports, including standards approved and practices recommended, are advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. There is no agreement to adhere to any SAE standard or recommended practice, and no commitment to conform to or be guided by any technical report in formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against liability for infringement of patents."

2.3 It should be noted that the Table is divided into two distinct sections as follows:

- 2.3.1 The main section, wherein the dash numbers are divided into groups of one hundred, and within each group are sequential and nonsignificant. Each hundred group, however, identifies the cross section size of the O-Rings within the group. For example, all .070 and smaller O-Ring cross sections fall into the group of -001 thru -099. The .103 cross section rings fall into the group of -100 thru -199, and so on.
- 2.3.2 The gasket section, shown on the last page of the Table, using the 900 series dash numbers, lists all of the presently standardized straight thread tube fitting boss gaskets. This series has traditionally utilized the significant dash numbering system, wherein the dash number designates the tube size in 16th's of an inch. This practice is also followed here, with the exception of the -901, which is intended for a .0938 inch nominal OD (outside diameter) tube, the .0625 inch OD tube not being in common aircraft use.
- 2.4 In the interest of standardization, it is requested that companies or agencies do not use the dash numbers in the following Table to which sizes have not been assigned. Sizes not assigned are indicated by an asterisk (*). Anyone feeling that any special size not now shown is widely enough used to justify standardization should direct such a request to the Elastic Seal Committee, SAE G-4 for coordination.

3. SKETCH

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Table Begins

on the

Following Page

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UNIFORM LASH NOMINAL SYSTEM FOR C-RINGS

LASH NUMBER	CLASS I				CLASS II				CLASSES I AND II				VOLUME (REF.)	
	I.D. INCHES		I.D. MILLIMETERS		I.D. INCHES		I.D. MILLIMETERS		INCHES		MILLIMETERS		CUBIC INCHES	CUBIC CENTI-METERS
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
-001	0.025	0.022	0.635	0.638	0.023	0.035	0.58	0.89	0.037	0.043	0.940	1.092	0.0003	0.005
-002	0.038	0.040	0.965	1.168	0.036	0.048	0.91	1.22	0.047	0.053	1.194	1.346	0.0006	0.010
-003	0.052	0.050	1.321	1.524	0.050	0.062	1.27	1.57	0.057	0.063	1.448	1.600	0.0010	0.016
-004	0.065	0.075	1.65	1.90	0.064	0.076	1.63	1.93	0.067	0.073	1.702	1.854	0.0017	0.028
-005	0.086	0.106	2.44	2.65	0.095	0.107	2.41	2.72	0.067	0.073	1.702	1.854	0.0021	0.034
-006	0.105	0.115	2.77	3.02	0.108	0.120	2.74	3.05	0.067	0.073	1.702	1.854	0.0022	0.036
-007	0.140	0.150	3.56	3.81	0.139	0.151	3.53	3.84	0.067	0.073	1.702	1.854	0.0026	0.043
-008	0.171	0.181	4.34	4.60	0.170	0.182	4.32	4.62	0.067	0.073	1.702	1.854	0.0030	0.049
-009	0.203	0.213	5.16	5.41	0.202	0.214	5.13	5.44	0.067	0.073	1.702	1.854	0.0034	0.056
-010	0.224	0.244	5.94	6.20	0.232	0.246	5.89	6.25	0.067	0.073	1.702	1.854	0.0037	0.061
-011	0.258	0.266	7.52	7.77	0.294	0.308	7.47	7.82	0.067	0.073	1.702	1.854	0.0045	0.074
-012	0.259	0.265	5.12	9.37	0.357	0.371	9.07	9.42	0.067	0.073	1.702	1.854	0.0052	0.085
-013	0.421	0.431	10.65	10.55	0.419	0.433	10.64	11.00	0.067	0.073	1.702	1.854	0.0060	0.098
-014	0.484	0.494	12.29	12.55	0.482	0.496	12.24	12.60	0.067	0.073	1.702	1.854	0.0068	0.111
-015	0.546	0.556	13.87	14.12	0.544	0.558	13.82	14.17	0.067	0.073	1.702	1.854	0.0075	0.123
-016	0.609	0.619	15.47	15.72	0.605	0.623	15.37	15.82	0.067	0.073	1.702	1.854	0.0083	0.136
-017	0.671	0.681	17.04	17.30	0.667	0.685	16.94	17.40	0.067	0.073	1.702	1.854	0.0090	0.147
-018	0.734	0.744	18.64	18.90	0.730	0.748	18.54	19.00	0.067	0.073	1.702	1.854	0.0098	0.161
-019	0.795	0.807	20.19	20.50	0.792	0.810	20.12	20.57	0.067	0.073	1.702	1.854	0.0105	0.172
-020	0.858	0.870	21.75	22.10	0.855	0.873	21.72	22.17	0.067	0.073	1.702	1.854	0.0113	0.185
-021	0.920	0.932	23.37	23.67	0.917	0.935	23.29	23.75	0.067	0.073	1.702	1.854	0.0120	0.197
-022	0.983	0.995	24.97	25.27	0.979	0.999	24.87	25.37	0.067	0.073	1.702	1.854	0.0128	0.210
-023	1.045	1.057	26.54	26.85	1.041	1.061	26.44	26.95	0.067	0.073	1.702	1.854	0.0136	0.223
-024	1.108	1.120	28.14	28.45	1.104	1.124	28.04	28.55	0.067	0.073	1.702	1.854	0.0143	0.234
-025	1.170	1.182	29.72	30.02	1.165	1.187	29.59	30.15	0.067	0.073	1.702	1.854	0.0151	0.247
-026	1.232	1.245	31.32	31.62	1.228	1.250	31.19	31.75	0.067	0.073	1.702	1.854	0.0158	0.259
-027	1.295	1.307	32.89	33.20	1.290	1.312	32.77	33.32	0.067	0.073	1.702	1.854	0.0166	0.272
-028	1.358	1.370	34.45	34.80	1.351	1.377	34.32	34.98	0.067	0.073	1.702	1.854	0.0173	0.283
-029	1.420	1.435	36.07	36.47	1.416	1.436	35.94	36.55	0.067	0.073	1.702	1.854	0.0188	0.308
-030	1.484	1.504	40.74	41.25	1.481	1.507	40.67	41.33	0.067	0.073	1.702	1.854	0.0204	0.334

UNIFORM LAST NUMBERING SYSTEM FOR L-RINGS

UNIFORM LASH NUMBERS SYSTEM FOR C-RINGS												

(CONTINUED)												
DASH NUMBER	CLASS I		CLASS II		CLASSES I AND II		VOLUME CUBIC INCHES	(REF.) CUBIC CENTI-METERS				
	I.O. INCHES MIN.	I.O. INCHES MAX.	I.O. INCHES MIN.	I.O. INCHES MAX.	I.O. INCHES MIN.	I.O. INCHES MAX.						
-031	1.725	1.745	45.92	44.42	1.724	1.754	0.073	1.702	1.854	0.0219	0.359	
-032	1.854	1.874	47.09	47.60	1.849	1.879	0.067	1.702	1.854	0.0234	0.383	
-033	1.575	1.595	50.27	50.77	1.571	2.007	0.067	1.702	1.854	0.0249	0.408	
-034	2.104	2.124	53.44	53.95	2.040	2.132	0.067	1.702	1.854	0.0264	0.433	
-035	2.225	2.245	56.62	57.12	2.221	2.257	0.067	1.702	1.854	0.0279	0.455	
-036	2.354	2.374	59.79	60.30	2.340	2.382	0.067	1.702	1.854	0.0294	0.482	
-037	2.475	2.495	62.97	63.47	2.471	2.507	0.067	1.702	1.854	0.0309	0.506	
-038	2.604	2.624	66.14	66.65	2.594	2.630	0.067	1.702	1.854	0.0325	0.533	
-039	2.724	2.744	69.31	69.82	2.719	2.759	0.067	1.702	1.854	0.0340	0.557	
-040	2.849	2.869	72.36	73.13	2.844	2.884	0.067	1.702	1.854	0.0355	0.582	
-041	2.974	2.994	75.54	76.30	2.965	3.013	0.067	1.702	1.854	0.0370	0.606	
-042	3.094	3.114	78.71	79.47	3.085	3.133	0.067	1.702	1.854	0.0385	0.631	
-043	3.214	3.234	81.89	82.65	3.205	3.253	0.067	1.702	1.854	0.0400	0.655	
-044	3.334	3.354	85.06	85.82	3.325	3.373	0.067	1.702	1.854	0.0415	0.679	
-045	3.454	3.474	88.24	89.00	3.445	3.493	0.067	1.702	1.854	0.0430	0.703	
-046	3.574	3.594	91.41	92.17	3.565	3.613	0.067	1.702	1.854	0.0445	0.727	
-047	3.694	3.714	94.59	95.35	3.685	3.733	0.067	1.702	1.854	0.0460	0.751	
-048	3.814	3.834	97.76	98.52	3.805	3.853	0.067	1.702	1.854	0.0475	0.775	
-049	3.934	3.954	100.94	101.70	3.925	4.016	0.067	1.702	1.854	0.0490	0.800	
-050	4.054	4.074	104.11	104.87	4.045	4.093	0.067	1.702	1.854	0.0505	0.824	
-051	4.174	4.194	107.29	108.05	4.165	4.213	0.067	1.702	1.854	0.0520	0.848	
-052	4.294	4.314	110.46	111.22	4.285	4.333	0.067	1.702	1.854	0.0535	0.872	
-053	4.414	4.434	113.64	114.40	4.405	4.453	0.067	1.702	1.854	0.0550	0.896	
-054	4.534	4.554	116.81	117.57	4.525	4.573	0.067	1.702	1.854	0.0565	0.920	
-055	4.654	4.674	120.00	120.76	4.645	4.693	0.067	1.702	1.854	0.0580	0.944	
-056	4.774	4.794	123.17	123.93	4.765	4.813	0.067	1.702	1.854	0.0595	0.968	
-057	4.894	4.914	126.34	127.10	4.885	4.933	0.067	1.702	1.854	0.0610	0.992	
-058	5.014	5.034	129.51	130.27	5.005	5.053	0.067	1.702	1.854	0.0625	1.016	
-059	5.134	5.154	132.68	133.44	5.125	5.173	0.067	1.702	1.854	0.0640	1.040	
-060	5.254	5.274	135.85	136.61	5.245	5.293	0.067	1.702	1.854	0.0655	1.064	
-061	5.374	5.394	139.02	139.78	5.365	5.413	0.067	1.702	1.854	0.0670	1.088	
-062	5.494	5.514	142.19	142.95	5.485	5.533	0.067	1.702	1.854	0.0685	1.112	
-063	5.614	5.634	145.36	146.12	5.605	5.653	0.067	1.702	1.854	0.0700	1.136	
-064	5.734	5.754	148.53	149.29	5.725	5.773	0.067	1.702	1.854	0.0715	1.160	
-065	5.854	5.874	151.70	152.46	5.845	5.893	0.067	1.702	1.854	0.0730	1.184	
-066	5.974	5.994	154.87	155.63	5.965	6.013	0.067	1.702	1.854	0.0745	1.208	
-067	6.094	6.114	158.04	158.80	6.085	6.133	0.067	1.702	1.854	0.0760	1.232	
-068	6.214	6.234	161.21	161.97	6.205	6.253	0.067	1.702	1.854	0.0775	1.256	
-069	6.334	6.354	164.38	165.14	6.325	6.373	0.067	1.702	1.854	0.0790	1.280	
-070	6.454	6.474	167.55	168.31	6.445	6.493	0.067	1.702	1.854	0.0805	1.304	
-071	6.574	6.594	170.72	171.48	6.565	6.613	0.067	1.702	1.854	0.0820	1.328	
-072	6.694	6.714	173.89	174.65	6.685	6.733	0.067	1.702	1.854	0.0835	1.352	
-073	6.814	6.834	177.06	177.82	6.805	6.853	0.067	1.702	1.854	0.0850	1.376	
-074	6.934	6.954	180.23	180.99	6.925	6.973	0.067	1.702	1.854	0.0865	1.400	
-075	7.054	7.074	183.40	184.16	7.045	7.093	0.067	1.702	1.854	0.0880	1.424	
-076	7.174	7.194	186.57	187.33	7.165	7.213	0.067	1.702	1.854	0.0895	1.448	
-077	7.294	7.314	189.74	190.50	7.285	7.333	0.067	1.702	1.854	0.0910	1.472	
-078	7.414	7.434	192.91	193.67	7.405	7.453	0.067	1.702	1.854	0.0925	1.496	
-079	7.534	7.554	196.08	196.84	7.525	7.573	0.067	1.702	1.854	0.0940	1.520	
-080	7.654	7.674	199.25	199.99	7.645	7.693	0.067	1.702	1.854	0.0955	1.544	
-081	7.774	7.794	202.42	203.18	7.765	7.813	0.067	1.702	1.854	0.0970	1.568	
-082	7.894	7.914	205.59	206.35	7.885	7.933	0.067	1.702	1.854	0.0985	1.592	
-083	8.014	8.034	208.76	209.52	8.005	8.053	0.067	1.702	1.854	0.1000	1.616	
-084	8.134	8.154	211.93	212.69	8.125	8.173	0.067	1.702	1.854	0.1015	1.640	
-085	8.254	8.274	215.10	215.86	8.245	8.293	0.067	1.702	1.854	0.1030	1.664	
-086	8.374	8.394	218.27	219.03	8.365	8.413	0.067	1.702	1.854	0.1045	1.688	
-087	8.494	8.514	221.44	222.20	8.485	8.533	0.067	1.702	1.854	0.1060	1.712	
-088	8.614	8.634	224.61	225.37	8.605	8.653	0.067	1.702	1.854	0.1075	1.736	
-089	8.734	8.754	227.78	228.54	8.725	8.773	0.067	1.702	1.854	0.1090	1.760	
-090	8.854	8.874	230.95	231.71	8.845	8.893	0.067	1.702	1.854	0.1105	1.784	
-091	8.974	8.994	234.12	234.88	8.965	9.013	0.067	1.702	1.854	0.1120	1.808	
-092	9.094	9.114	237.29	238.05	9.085	9.133	0.067	1.702	1.854	0.1135	1.832	
-093	9.214	9.234	240.46	241.22	9.205	9.253	0.067	1.702	1.854	0.1150	1.856	
-094	9.334	9.354	243.63	244.39	9.325	9.373	0.067	1.702	1.854	0.1165	1.880	
-095	9.454	9.474	246.80	247.56	9.445	9.493	0.067	1.702	1.854	0.1180	1.904	
-096	9.574	9.594	250.00	250.76	9.565	9.613	0.067	1.702	1.854	0.1195	1.928	
-097	9.694	9.714	253.17	253.93	9.685	9.733	0.067	1.702	1.854	0.1210	1.952	
-098	9.814	9.834	256.34	257.10	9.805	9.853	0.067	1.702	1.854	0.1225	1.976	
-099	9.934	9.954	259.51	260.27	9.925	9.973	0.067	1.702	1.854	0.1240	2.000	
-100	10.054	10.074	262.68	263.44	10.045	10.093	0.067	1.702	1.854	0.1255	2.024	
-101	10.174	10.194	265.85	266.61	10.165	10.213	0.067	1.702	1.854	0.1270	2.048	
-102	10.294	10.314	269.02	269.78	10.285	10.333	0.067	1.702	1.854	0.1285	2.072	
-103	10.414	10.434	272.19	272.95	10.405	10.453	0.067	1.702	1.854	0.1300	2.096	
-104	10.534	10.554	275.36	276.12	10.525	10.573	0.067	1.702	1.854	0.1315	2.120	
-105	10.654	10.674	278.53	279.29	10.645	10.693	0.067	1.702	1.854	0.1330	2.144	
-106	10.774	10.794	281.70	282.46	10.765	10.813	0.067	1.702	1.854	0.1345	2.168	
-107	10.894	10.914	284.87	285.63	10.885	10.933	0.067	1.702	1.854	0.1360	2.192	
-108	11.014	11.034	288.04	288.80	11.005	11.053	0.067	1.702	1.854	0.1375	2.216	
-109	11.134	11.154	291.21	291.97	11.125	11.173	0.067	1.702	1.854	0.1390	2.240	
-110	11.254	11.274	294.38	295.14	11.245	11.293	0.067	1.702	1.854	0.1405	2.264	
-111	11.374	11.394	297.55	298.31	11.365	11.413	0.067	1.702	1.854	0.1420	2.288	
-112	11.494	11.514	300.72	301.48	11.485	11.533	0.067	1.702	1.854	0.1435	2.312	
-113	11.614	11.634	303.89	304.65	11.605	11.653	0.067	1.702	1.854	0.1450	2.336	
-114	11.734	11.754	307.06	307.82	11.725	11.773	0.067	1.702	1.854	0.1465	2.360	
-115	11.854	11.874	310.23	310.99	11.845	11.893	0.067	1.702	1.854	0.1480	2.384	
-116	11.974	11.994	313.40	314.16	11.965	12.013	0.067	1.702	1.854	0.1495	2.408	
-117	12.094	12.114	316.57	317.33	12.085	12.133	0.067	1.702	1.854	0.1510	2.432	
-118	12.214	12.234	319.74	320.50	12.205	12.253	0.067	1.702	1.854	0.1525	2.456	
-119	12.334	12.354	322.91	323.67	12.325	12.373	0.067	1.702	1.854	0.1540	2.480	
-120	12.454	12.474	326.08	326.84	12.445	12.493	0.067	1.702	1.854	0.1555	2.504	
-121	12.574	12.594	329.25	329.99	12.565	12.613	0.067	1.702	1.854	0.1570	2.528	
-122	12.694	12.714	332.42	333.18	12.685	12.733	0.067	1.702	1.854	0.1585	2.552	
-123	12.814	12.834	335.59	336.35	12.805	12.853	0.067	1.702	1.854	0.1600	2.576	
-124	12.934	12.954	338.76	339.52	12.925	12.973	0.067	1.70				

* O-RING SIZES NOT ASSIGNED

DASH NUMBER	UNIFORM GAGE NUMBERING SYSTEM FOR DRINKS										(CONTINUED)									
	CLASS I					CLASS II					CLASSES I AND II					VOLUME (REF.)				
	I.O. INCHES MIN.	I.O. INCHES MAX.	I.O. MILLIMETERS MIN.	I.O. MILLIMETERS MAX.	I.O. INCHES MIN.	I.O. INCHES MAX.	I.O. MILLIMETERS MIN.	I.O. MILLIMETERS MAX.	I.O. INCHES MIN.	I.O. INCHES MAX.	INCHES MIN.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS MAX.	CUBIC INCHES	CUBIC CENTI-METERS	CUBIC INCHES	CUBIC CENTI-METERS	CUBIC INCHES	CUBIC CENTI-METERS
-111	0.415	0.425	10.64	10.90	0.417	0.431	10.55	10.55	0.100	0.106	0.100	0.106	2.540	2.692	0.0138	0.226	0.0138	0.226	0.0138	0.226
-112	0.482	0.492	12.24	12.50	0.483	0.497	12.19	12.55	0.100	0.106	0.100	0.106	2.540	2.692	0.0154	0.252	0.0154	0.252	0.0154	0.252
-113	0.544	0.554	13.82	14.07	0.545	0.559	13.77	14.12	0.100	0.106	0.100	0.106	2.540	2.692	0.0171	0.280	0.0171	0.280	0.0171	0.280
-114	0.607	0.617	15.42	15.67	0.608	0.622	15.32	15.77	0.100	0.106	0.100	0.106	2.540	2.692	0.0187	0.306	0.0187	0.306	0.0187	0.306
-115	0.669	0.679	16.99	17.25	0.670	0.684	16.89	17.35	0.100	0.106	0.100	0.106	2.540	2.692	0.0203	0.333	0.0203	0.333	0.0203	0.333
-116	0.732	0.742	18.59	18.85	0.733	0.747	18.49	18.95	0.100	0.106	0.100	0.106	2.540	2.692	0.0220	0.361	0.0220	0.361	0.0220	0.361
-117	0.793	0.803	20.14	20.45	0.794	0.808	20.04	20.55	0.100	0.106	0.100	0.106	2.540	2.692	0.0236	0.387	0.0236	0.387	0.0236	0.387
-118	0.856	0.866	21.74	22.05	0.857	0.871	21.64	22.15	0.100	0.106	0.100	0.106	2.540	2.692	0.0253	0.415	0.0253	0.415	0.0253	0.415
-119	0.918	0.928	23.32	23.62	0.919	0.933	23.22	23.72	0.100	0.106	0.100	0.106	2.540	2.692	0.0269	0.441	0.0269	0.441	0.0269	0.441
-120	0.981	0.991	24.92	25.22	0.982	0.996	24.82	25.32	0.100	0.106	0.100	0.106	2.540	2.692	0.0285	0.467	0.0285	0.467	0.0285	0.467
-121	1.043	1.053	26.49	26.80	1.044	1.058	26.39	26.90	0.100	0.106	0.100	0.106	2.540	2.692	0.0302	0.495	0.0302	0.495	0.0302	0.495
-122	1.106	1.116	28.09	28.40	1.107	1.121	27.99	28.50	0.100	0.106	0.100	0.106	2.540	2.692	0.0318	0.521	0.0318	0.521	0.0318	0.521
-123	1.168	1.178	29.67	29.97	1.169	1.183	29.51	30.12	0.100	0.106	0.100	0.106	2.540	2.692	0.0334	0.547	0.0334	0.547	0.0334	0.547
-124	1.231	1.241	31.27	31.57	1.232	1.246	31.12	31.72	0.100	0.106	0.100	0.106	2.540	2.692	0.0351	0.575	0.0351	0.575	0.0351	0.575
-125	1.293	1.303	32.84	33.15	1.294	1.308	32.69	33.30	0.100	0.106	0.100	0.106	2.540	2.692	0.0367	0.601	0.0367	0.601	0.0367	0.601
-126	1.356	1.366	34.44	34.75	1.357	1.371	34.29	34.90	0.100	0.106	0.100	0.106	2.540	2.692	0.0383	0.628	0.0383	0.628	0.0383	0.628
-127	1.418	1.428	36.02	36.32	1.419	1.433	35.86	36.47	0.100	0.106	0.100	0.106	2.540	2.692	0.0400	0.655	0.0400	0.655	0.0400	0.655
-128	1.481	1.491	37.62	37.92	1.482	1.496	37.46	38.07	0.100	0.106	0.100	0.106	2.540	2.692	0.0416	0.682	0.0416	0.682	0.0416	0.682
-129	1.543	1.553	39.09	39.60	1.544	1.558	38.96	39.73	0.100	0.106	0.100	0.106	2.540	2.692	0.0432	0.708	0.0432	0.708	0.0432	0.708
-130	1.606	1.616	40.69	41.20	1.607	1.621	40.56	41.33	0.100	0.106	0.100	0.106	2.540	2.692	0.0449	0.736	0.0449	0.736	0.0449	0.736
-131	1.668	1.678	42.27	42.77	1.669	1.683	42.14	42.90	0.100	0.106	0.100	0.106	2.540	2.692	0.0465	0.762	0.0465	0.762	0.0465	0.762
-132	1.731	1.741	43.87	44.37	1.732	1.746	43.74	44.50	0.100	0.106	0.100	0.106	2.540	2.692	0.0482	0.790	0.0482	0.790	0.0482	0.790
-133	1.793	1.803	45.44	45.95	1.794	1.808	45.31	46.08	0.100	0.106	0.100	0.106	2.540	2.692	0.0498	0.816	0.0498	0.816	0.0498	0.816
-134	1.856	1.866	47.04	47.55	1.857	1.871	46.91	47.68	0.100	0.106	0.100	0.106	2.540	2.692	0.0514	0.842	0.0514	0.842	0.0514	0.842
-135	1.918	1.928	48.64	49.15	1.919	1.933	48.46	49.33	0.100	0.106	0.100	0.106	2.540	2.692	0.0531	0.870	0.0531	0.870	0.0531	0.870
-136	1.979	1.989	50.22	50.72	1.980	1.994	50.04	50.90	0.100	0.106	0.100	0.106	2.540	2.692	0.0547	0.896	0.0547	0.896	0.0547	0.896
-137	2.042	2.052	51.82	52.32	2.043	2.057	51.64	52.50	0.100	0.106	0.100	0.106	2.540	2.692	0.0564	0.924	0.0564	0.924	0.0564	0.924
-138	2.104	2.114	53.39	53.90	2.105	2.119	53.21	54.08	0.100	0.106	0.100	0.106	2.540	2.692	0.0580	0.950	0.0580	0.950	0.0580	0.950
-139	2.166	2.176	54.99	55.50	2.167	2.181	54.81	55.68	0.100	0.106	0.100	0.106	2.540	2.692	0.0596	0.977	0.0596	0.977	0.0596	0.977
-140	2.228	2.238	56.57	57.07	2.229	2.243	56.39	57.25	0.100	0.106	0.100	0.106	2.540	2.692	0.0613	1.005	0.0613	1.005	0.0613	1.005

(CONTINUED)

UNIFLEX DASH NUMBERING SYSTEM FOR O-RINGS

DASH NUMBER	CLASS I		CLASS II		CLASSES I AND II		VOLUME		(REF.) CUBIC CENTI- METERS
	I.D. INCHES MIN.	I.D. INCHES MAX.	I.D. MILLIMETERS MIN.	I.D. MILLIMETERS MAX.	INCHES MIN.	INCHES MAX.	CUBIC INCHES MIN.	CUBIC INCHES MAX.	
-141	2.250	2.210	58.17	56.67	2.280	2.320	57.91	58.53	1.031
-142	2.252	2.212	58.74	60.25	2.342	2.382	59.49	60.50	1.057
-143	2.415	2.435	61.34	61.85	2.465	2.445	61.05	62.10	1.085
-144	2.477	2.457	62.92	63.42	2.467	2.507	62.66	63.68	1.111
-145	2.540	2.560	64.52	65.02	2.530	2.570	64.26	65.28	1.137
-146	2.602	2.622	66.09	66.60	2.592	2.632	65.84	66.85	1.165
-147	2.660	2.650	67.56	68.33	2.653	2.693	67.39	68.50	1.191
-148	2.722	2.732	69.14	69.90	2.715	2.755	68.96	70.08	1.218
-149	2.785	2.815	70.74	71.50	2.778	2.822	70.56	71.68	1.245
-150	2.847	2.877	72.31	73.08	2.840	2.884	72.14	73.25	1.272
-151	2.972	3.002	75.49	76.25	2.963	3.011	75.26	76.48	1.326
-152	3.222	3.252	81.84	82.60	3.213	3.261	81.61	82.83	1.432
-153	3.472	3.502	88.19	88.95	3.463	3.511	87.96	89.18	1.540
-154	3.722	3.752	94.54	95.30	3.709	3.765	94.21	95.43	1.647
-155	4.072	4.102	100.89	101.65	3.959	4.015	100.56	101.98	1.755
-156	4.222	4.252	107.24	108.00	4.207	4.267	106.86	108.28	1.862
-157	4.472	4.502	113.59	114.35	4.457	4.517	113.21	114.73	1.970
-158	4.722	4.752	119.94	120.70	4.707	4.767	119.56	121.08	2.076
-159	4.972	5.002	126.29	127.05	4.952	5.022	125.78	127.56	2.183
-160	5.214	5.260	132.44	133.60	5.202	5.272	132.13	133.91	2.291
-161	5.464	5.510	138.79	139.95	5.452	5.522	138.48	140.26	2.397
-162	5.714	5.760	145.14	146.30	5.702	5.772	144.83	146.61	2.506
-163	5.964	6.010	151.49	152.65	5.952	6.022	151.18	152.96	2.612
-164	6.214	6.260	157.84	159.00	6.197	6.277	157.40	159.44	2.720
-165	6.464	6.510	164.19	165.35	6.447	6.527	163.75	165.75	2.827
-166	6.714	6.760	170.54	171.70	6.697	6.777	170.10	172.14	2.933
-167	6.964	7.010	176.89	178.05	6.947	7.027	176.45	178.49	3.041
-168	7.207	7.253	183.06	184.56	7.192	7.282	182.68	184.96	3.148
-169	7.457	7.517	189.41	190.91	7.442	7.532	189.03	191.31	3.256
-170	7.707	7.767	195.76	197.28	7.592	7.702	195.38	197.66	3.363

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I.D. MILLIMETERS		I.D. INCHES		MILLIMETERS		INCHES	
MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
203.63	17.342	8.012	201.73	204.01	0.100	0.106	2.9
209.9d	8.167	8.207	207.9	210.5	0.100	0.106	2.9
216.33	8.537	8.537	214.3	216.8	0.100	0.106	2.9
222.68	8.567	8.787	220.6	223.2	0.100	0.106	2.9
229.63	8.937	9.037	227.0	229.5	0.100	0.106	2.9
235.58	9.182	9.292	233.2	236.0	0.100	0.106	2.9
241.73	9.522	9.562	239.6	242.4	0.100	0.106	2.9
248.08	9.682	9.792	245.9	248.7	0.100	0.106	2.9
4.47	0.165	0.177	4.19	4.50	0.135	0.143	3.4
6.67	0.227	0.241	5.77	6.12	0.135	0.143	3.4
7.65	0.289	0.303	7.34	7.70	0.135	0.143	3.4
9.25	0.352	0.366	8.94	9.30	0.135	0.143	3.4
10.82	0.414	0.428	10.52	10.87	0.135	0.143	3.4
12.42	0.477	0.491	12.12	12.47	0.135	0.143	3.4
14.00	0.539	0.553	13.69	14.05	0.135	0.143	3.4
15.60	0.600	0.618	15.24	15.70	0.135	0.143	3.4
17.17	0.662	0.680	16.81	17.27	0.135	0.143	3.4
18.80	0.724	0.744	18.39	18.90	0.135	0.143	3.4
20.37	0.786	0.806	19.96	20.47	0.135	0.143	3.4
21.97	0.845	0.869	21.56	22.07	0.135	0.143	3.4
23.55	0.911	0.931	23.14	23.65	0.135	0.143	3.4
25.15	0.974	0.994	24.74	25.25	0.135	0.143	3.4

(CONTINUED)

DASH NUMBER	CLASS I			CLASS II			CLASSES I AND II			VOLUME (REF.)				
	I.D. INCHES		I.D. MILLIMETERS	I.C. INCHES		I.C. MILLIMETERS	INCHES		MILLIMETERS	CUBIC INCHES	CUBIC CENTI- METERS			
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.						
-221	1.415	1.427	35.94	36.25	1.409	1.433	35.79	36.40	0.135	0.143	3.429	3.632	0.0744	1.219
-222	1.478	1.490	37.24	37.85	1.469	1.499	37.31	38.67	0.135	0.143	3.429	3.632	0.0774	1.268
-223	1.555	1.615	40.61	41.12	1.594	1.624	40.45	41.25	0.135	0.143	3.429	3.632	0.0833	1.365
-224	1.724	1.744	43.79	44.30	1.709	1.749	43.66	44.42	0.135	0.143	3.429	3.632	0.0853	1.463
-225	1.845	1.869	46.56	47.47	1.841	1.877	46.76	47.68	0.135	0.143	3.429	3.632	0.0952	1.560
-226	1.974	1.994	50.14	50.65	1.966	2.002	49.94	50.85	0.135	0.143	3.429	3.632	0.1012	1.658
-227	2.059	2.115	53.31	53.82	2.091	2.127	53.11	54.03	0.135	0.143	3.429	3.632	0.1072	1.757
-228	2.224	2.249	56.49	57.00	2.214	2.254	56.24	57.25	0.135	0.143	3.429	3.632	0.1131	1.853
-229	2.345	2.365	59.66	60.17	2.339	2.379	59.41	60.43	0.135	0.143	3.429	3.632	0.1191	1.952
-230	2.474	2.484	62.84	63.35	2.464	2.504	62.59	63.60	0.135	0.143	3.429	3.632	0.1250	2.048
-231	2.555	2.619	66.01	66.52	2.589	2.629	65.76	66.78	0.135	0.143	3.429	3.632	0.1310	2.147
-232	2.715	2.745	69.06	69.82	2.710	2.758	68.83	70.05	0.135	0.143	3.429	3.632	0.1370	2.245
-233	2.844	2.874	72.24	73.00	2.835	2.883	72.01	73.23	0.135	0.143	3.429	3.632	0.1429	2.342
-234	2.965	2.995	75.41	76.17	2.960	3.008	75.18	76.40	0.135	0.143	3.429	3.632	0.1489	2.440
-235	3.054	3.124	78.55	79.35	3.085	3.133	78.36	79.58	0.135	0.143	3.429	3.632	0.1548	2.537
-236	3.219	3.249	81.76	82.52	3.210	3.258	81.53	82.75	0.135	0.143	3.429	3.632	0.1608	2.635
-237	3.344	3.374	84.94	85.70	3.335	3.383	84.71	85.93	0.135	0.143	3.429	3.632	0.1668	2.733
-238	3.465	3.495	88.11	88.87	3.400	3.508	87.88	89.10	0.135	0.143	3.429	3.632	0.1727	2.830
-239	3.584	3.624	91.29	92.05	3.581	3.637	90.96	92.38	0.135	0.143	3.429	3.632	0.1787	2.928
-240	3.715	3.749	94.46	95.22	3.706	3.762	94.13	95.55	0.135	0.143	3.429	3.632	0.1846	3.025
-241	3.844	3.874	97.64	98.40	3.831	3.887	97.31	98.73	0.135	0.143	3.429	3.632	0.1906	3.123
-242	3.969	3.999	100.81	101.57	3.956	4.012	100.48	101.90	0.135	0.143	3.429	3.632	0.1966	3.222
-243	4.094	4.124	103.99	104.75	4.081	4.137	103.66	105.08	0.135	0.143	3.429	3.632	0.2025	3.318
-244	4.215	4.245	107.16	107.92	4.204	4.264	106.76	108.21	0.135	0.143	3.429	3.632	0.2085	3.417
-245	4.344	4.374	110.34	111.10	4.329	4.389	109.96	111.48	0.135	0.143	3.429	3.632	0.2144	3.513
-246	4.465	4.495	113.51	114.27	4.454	4.514	113.13	114.66	0.135	0.143	3.429	3.632	0.2214	3.612
-247	4.594	4.624	116.69	117.45	4.579	4.639	116.31	117.83	0.135	0.143	3.429	3.632	0.2263	3.708
-248	4.715	4.745	119.86	120.62	4.704	4.764	119.48	121.01	0.135	0.143	3.429	3.632	0.2323	3.807
-249	4.844	4.874	123.04	123.80	4.824	4.884	122.53	124.21	0.135	0.143	3.429	3.632	0.2383	3.905
-250	4.965	4.995	126.21	126.97	4.949	5.019	125.70	127.48	0.135	0.143	3.429	3.632	0.2442	4.002

(CONTINUED)

UNIFORM LASH ALUMINUM SYSTEM FOR D-RINGS

DASH NUMBER	CLASS I		CLASS II		CLASSES I AND II		VOLUME (REF.)							
	I.D. INCHES MIN.	I.D. INCHES MAX.	I.D. INCHES MIN.	I.D. INCHES MAX.	I.D. INCHES MIN.	I.D. INCHES MAX.	CUBIC CENTI- METERS	CUBIC INCHES						
-281	14.954	15.014	375.83	381.36	14.919	15.049	378.9	382.2	0.135	0.143	3.429	3.632	0.7210	11.815
-282	15.910	16.000	404.11	406.40	---	---	---	---	0.135	0.143	3.429	3.632	0.7672	12.572
-283	16.916	17.000	425.51	431.80	---	---	---	---	0.135	0.143	3.425	3.632	0.8149	13.354
-284	17.910	18.000	454.51	457.20	---	---	---	---	0.135	0.143	3.429	3.632	0.8626	14.136
4285	* D-RING SIZE NOT ASSIGNED													
4300														
4308														
-309	6.467	6.477	10.34	10.59	0.405	0.419	10.29	10.64	0.205	0.215	5.21	5.46	0.0677	1.109
-310	6.470	6.480	11.94	12.19	0.468	0.482	11.89	12.24	0.205	0.215	5.21	5.46	0.0745	1.221
-311	6.522	6.532	13.51	13.77	0.530	0.544	13.46	13.82	0.205	0.215	5.21	5.46	0.0813	1.332
-312	6.555	6.565	15.11	15.37	0.591	0.609	15.01	15.47	0.205	0.215	5.21	5.46	0.0881	1.444
-313	6.557	6.567	16.65	16.94	0.653	0.671	16.59	17.04	0.205	0.215	5.21	5.46	0.0949	1.555
-314	6.719	6.729	18.26	18.57	0.715	0.735	18.16	18.67	0.205	0.215	5.21	5.46	0.1017	1.667
-315	6.781	6.793	19.84	20.14	0.777	0.797	19.74	20.24	0.205	0.215	5.21	5.46	0.1085	1.778
-316	6.844	6.856	21.44	21.74	0.840	0.860	21.34	21.84	0.205	0.215	5.21	5.46	0.1153	1.889
-317	6.906	6.916	23.01	23.32	0.902	0.922	22.91	23.42	0.205	0.215	5.21	5.46	0.1221	2.001
-318	6.965	6.981	24.61	24.92	0.965	0.985	24.51	25.02	0.205	0.215	5.21	5.46	0.1289	2.112
-319	7.021	7.033	26.19	26.49	1.027	1.047	26.09	26.59	0.205	0.215	5.21	5.46	0.1357	2.224
-320	7.054	7.066	27.79	28.09	1.088	1.112	27.64	28.24	0.205	0.215	5.21	5.46	0.1425	2.335
-321	7.156	7.168	29.36	29.67	1.150	1.174	29.21	29.82	0.205	0.215	5.21	5.46	0.1493	2.447
-322	7.215	7.227	30.96	31.27	1.213	1.237	30.81	31.42	0.205	0.215	5.21	5.46	0.1561	2.558
-323	7.281	7.293	32.54	32.84	1.275	1.299	32.38	32.99	0.205	0.215	5.21	5.46	0.1629	2.669
-324	7.344	7.356	34.14	34.44	1.338	1.362	33.99	34.59	0.205	0.215	5.21	5.46	0.1697	2.781
-325	7.405	7.417	35.71	36.01	1.400	1.424	35.56	36.16	0.205	0.215	5.21	5.46	0.1765	2.893
-326	7.466	7.478	37.29	37.59	1.462	1.486	37.14	37.74	0.205	0.215	5.21	5.46	0.1833	3.004
-327	7.527	7.539	38.87	39.17	1.524	1.548	38.72	39.32	0.205	0.215	5.21	5.46	0.1901	3.115
-328	7.588	7.600	40.45	40.75	1.586	1.610	40.30	40.90	0.205	0.215	5.21	5.46	0.1969	3.226
-329	7.649	7.661	42.03	42.33	1.648	1.672	41.88	42.48	0.205	0.215	5.21	5.46	0.2037	3.337
-330	7.710	7.722	43.61	43.91	1.710	1.734	43.46	44.06	0.205	0.215	5.21	5.46	0.2105	3.448

