

REV.
C

FEDERAL SUPPLY CLASS
5331

RATIONALE

THIS STANDARD HAS BEEN REVISED TO CLARIFY THAT THESE ARE NITRILE O-RINGS AND TO UPDATE THE REFERENCE TO AS5316, IN ADDITION TO EDITORIAL CHANGES.

AS29561™

1. SCOPE

THIS STANDARD ESTABLISHES THE DIMENSIONAL AND VISUAL QUALITY REQUIREMENTS, LOT REQUIREMENTS AND PACKAGING AND LABELING REQUIREMENTS FOR O-RINGS MOLDED FROM AMS-R-7362 NITRILE RUBBER. IT SHALL BE USED FOR PROCUREMENT PURPOSES.

1.1 APPLICATION

THIS SPECIFICATION COVERS A NITRILE RUBBER FOR USE WHERE RESISTANCE TO DIESTER SYNTHETIC OILS IS REQUIRED. THIS MATERIAL MAY NOT BE SUITABLE FOR USE IN POLYOL ESTER BASED TURBINE OILS.

2. APPLICABLE REFERENCES

THE FOLLOWING PUBLICATIONS FORM A PART OF THIS DOCUMENT TO THE EXTENT SPECIFIED HEREIN. THE LATEST ISSUE OF SAE PUBLICATIONS SHALL APPLY. THE APPLICABLE ISSUE OF OTHER PUBLICATIONS SHALL BE THE ISSUE IN EFFECT ON THE DATE OF THE PURCHASE ORDER. IN THE EVENT OF CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND REFERENCES CITED HEREIN, THE TEXT OF THIS DOCUMENT TAKES PRECEDENCE. NOTHING IN THIS DOCUMENT, HOWEVER, SUPERSEDES APPLICABLE LAWS AND REGULATIONS UNLESS A SPECIFIC EXEMPTION HAS BEEN OBTAINED.

2.1 SAE PUBLICATIONS

AVAILABLE FROM SAE, 400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096-0001, TEL: 877-606-7323 (INSIDE USA AND CANADA) OR +1 724-776-4970 (OUTSIDE USA), www.sae.org.

- AMS2817 PACKAGING AND IDENTIFICATION, PREFORMED PACKINGS
- AMS-R-7362 NITRILE RUBBER, SYNTHETIC, SOLID, SHEET, STRIP AND FABRICATED PARTS, SYNTHETIC OIL RESISTANT
- AS5316 STORAGE OF ELASTOMERS AND SEAL ASSEMBLIES WHICH INCLUDE AN ELASTOMER ELEMENT PRIOR TO HARDWARE ASSEMBLY

2.2 ASQ PUBLICATIONS

AVAILABLE FROM AMERICAN SOCIETY FOR QUALITY, 600 NORTH PLANKINTON AVENUE, MILWAUKEE, WI 53203, TEL: 800-248-1946 (UNITED STATES OR CANADA), 001-800-514-1564 (MEXICO), OR +1-414-272-8575 (ALL OTHER LOCATIONS), www.asq.org.

ANSI/ASQ Z1.4 SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

2.3 ASME PUBLICATIONS

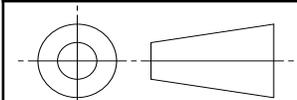
AVAILABLE FROM ASME, P.O. BOX 2900, 22 LAW DRIVE, FAIRFIELD, NJ 07007-2900, TEL: 800-843-2763 (U.S./CANADA), 001-800-843-2763 (MEXICO), 973-882-1170 (OUTSIDE NORTH AMERICA), www.asme.org.

ASME Y14.5 DIMENSIONING AND TOLERANCING REQUIREMENTS

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For more information on this standard, visit
<http://www.sae.org/technical/standards/AS29561C>

THIRD ANGLE PROJECTION



CUSTODIAN: SAE A-6C2 SEALS PANEL

PROCUREMENT SPECIFICATION



AEROSPACE STANDARD

(R) O-RING MOLDED FROM AMS-R-7362
NITRILE RUBBER MATERIAL

AS29561™
SHEET 1 OF 12

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ISSUED 2001-03 REVISED 2021-09

2.4 ISO PUBLICATIONS

COPIES OF THESE DOCUMENTS ARE AVAILABLE ONLINE AT <http://webstore.ansi.org/>.

ISO 3601-1 FLUID POWER SYSTEMS – O-RINGS – PART 1: INSIDE DIAMETERS, CROSS-SECTIONS, TOLERANCES AND DESIGNATION CODES

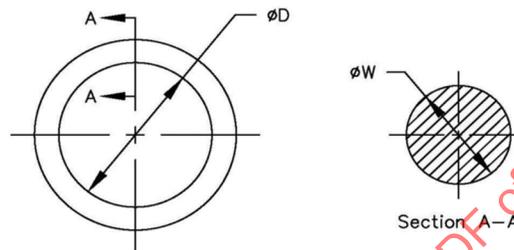
ISO 3601-3 FLUID POWER SYSTEMS – O-RINGS – PART 3: QUALITY ACCEPTANCE CRITERIA

3. O-RING PART NUMBERS, DIMENSIONS, AND MASSES

FIGURE 1 ILLUSTRATES THE O-RING DIMENSIONS THAT ARE USED IN THIS STANDARD.

TABLE 1 PROVIDES THE PART NUMBERS, DIMENSIONS AND APPROXIMATE MASSES FOR AEROSPACE STANDARD SIZE O-RINGS.

TABLE 2 PROVIDES THE PART NUMBERS, DIMENSIONS AND APPROXIMATE MASSES FOR STRAIGHT THREAD TUBE FITTING BOSS GASKETS.



NOTE: DIMENSIONS AND TOLERANCES AS PER ASME Y14.5

FIGURE 1 - O-RING DIMENSIONS: WIDTH (ϕW) AND INSIDE DIAMETER (ϕD)

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	AEROSPACE STANDARD	AS29561™ SHEET 2 OF 12	REV. C
	(R) O-RING MOLDED FROM AMS-R-7362 NITRILE RUBBER MATERIAL		

TABLE 1 - PART NUMBERS, DIMENSIONS, AND MASSES

NOTE	PART NUMBER	ØD (INCHES)		ØD (mm)		ØW (INCHES)		ØW (mm)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
	MS29561-001	0.025	0.033	0.64	0.84	0.037	0.043	0.94	1.09	0.001	0.001
	MS29561-002	0.038	0.046	0.97	1.17	0.047	0.053	1.19	1.35	0.003	0.001
	MS29561-003	0.052	0.060	1.32	1.52	0.057	0.063	1.45	1.60	0.005	0.002
	MS29561-004	0.065	0.075	1.65	1.91	0.067	0.073	1.70	1.85	0.008	0.004
	MS29561-005	0.096	0.106	2.44	2.69	0.067	0.073	1.70	1.85	0.010	0.005
	MS29561-006	0.109	0.119	2.77	3.02	0.067	0.073	1.70	1.85	0.010	0.005
	MS29561-007	0.140	0.150	3.56	3.81	0.067	0.073	1.70	1.85	0.012	0.005
	MS29561-008	0.171	0.181	4.34	4.60	0.067	0.073	1.70	1.85	0.014	0.006
	MS29561-009	0.203	0.213	5.16	5.41	0.067	0.073	1.70	1.85	0.016	0.007
	MS29561-010	0.234	0.244	5.94	6.20	0.067	0.073	1.70	1.85	0.017	0.008
	MS29561-011	0.296	0.306	7.52	7.77	0.067	0.073	1.70	1.85	0.021	0.010
	MS29561-012	0.359	0.369	9.12	9.37	0.067	0.073	1.70	1.85	0.024	0.011
	MS29561-013	0.421	0.431	10.69	10.95	0.067	0.073	1.70	1.85	0.028	0.013
	MS29561-014	0.484	0.494	12.29	12.55	0.067	0.073	1.70	1.85	0.031	0.014
	MS29561-015	0.544	0.558	13.82	14.17	0.067	0.073	1.70	1.85	0.034	0.015
	MS29561-016	0.605	0.623	15.37	15.82	0.067	0.073	1.70	1.85	0.038	0.017
	MS29561-017	0.667	0.685	16.94	17.40	0.067	0.073	1.70	1.85	0.041	0.019
	MS29561-018	0.730	0.748	18.54	19.00	0.067	0.073	1.70	1.85	0.045	0.020
	MS29561-019	0.792	0.810	20.12	20.57	0.067	0.073	1.70	1.85	0.048	0.022
	MS29561-020	0.855	0.873	21.72	22.17	0.067	0.073	1.70	1.85	0.052	0.024
	MS29561-021	0.917	0.935	23.29	23.75	0.067	0.073	1.70	1.85	0.055	0.025
	MS29561-022	0.979	0.999	24.87	25.37	0.067	0.073	1.70	1.85	0.059	0.027
	MS29561-023	1.041	1.061	26.44	26.95	0.067	0.073	1.70	1.85	0.062	0.028
	MS29561-024	1.104	1.124	28.04	28.55	0.067	0.073	1.70	1.85	0.066	0.030
	MS29561-025	1.165	1.187	29.59	30.15	0.067	0.073	1.70	1.85	0.069	0.031
	MS29561-026	1.228	1.250	31.19	31.75	0.067	0.073	1.70	1.85	0.073	0.033
	MS29561-027	1.290	1.312	32.77	33.32	0.067	0.073	1.70	1.85	0.076	0.034
	MS29561-028	1.351	1.377	34.32	34.98	0.067	0.073	1.70	1.85	0.080	0.036
	MS29561-029	1.476	1.502	37.49	38.15	0.067	0.073	1.70	1.85	0.086	0.039
	MS29561-030	1.601	1.627	40.67	41.33	0.067	0.073	1.70	1.85	0.094	0.043
	MS29561-031	1.724	1.754	43.79	44.55	0.067	0.073	1.70	1.85	0.101	0.046
	MS29561-032	1.849	1.879	46.96	47.73	0.067	0.073	1.70	1.85	0.108	0.049
	MS29561-033	1.971	2.007	50.06	50.98	0.067	0.073	1.70	1.85	0.115	0.052
	MS29561-034	2.096	2.132	53.24	54.15	0.067	0.073	1.70	1.85	0.121	0.055
	MS29561-035	2.221	2.257	56.41	57.33	0.067	0.073	1.70	1.85	0.128	0.058
	MS29561-036	2.346	2.382	59.59	60.50	0.067	0.073	1.70	1.85	0.135	0.061
	MS29561-037	2.471	2.507	62.76	63.68	0.067	0.073	1.70	1.85	0.142	0.064
	MS29561-038	2.594	2.634	65.89	66.90	0.067	0.073	1.70	1.85	0.150	0.068
	MS29561-039	2.719	2.759	69.06	70.08	0.067	0.073	1.70	1.85	0.156	0.071
	MS29561-040	2.844	2.884	72.24	73.25	0.067	0.073	1.70	1.85	0.163	0.074
	MS29561-041	2.965	3.013	75.31	76.53	0.067	0.073	1.70	1.85	0.170	0.077
	MS29561-042	3.215	3.263	81.66	82.88	0.067	0.073	1.70	1.85	0.184	0.083
	MS29561-043	3.465	3.513	88.01	89.23	0.067	0.073	1.70	1.85	0.198	0.090
	MS29561-044	3.712	3.766	94.28	95.66	0.067	0.073	1.70	1.85	0.212	0.096
	MS29561-045	3.962	4.016	100.63	102.01	0.067	0.073	1.70	1.85	0.226	0.102
	MS29561-046	4.209	4.269	106.91	108.43	0.067	0.073	1.70	1.85	0.240	0.109
	MS29561-047	4.459	4.519	113.26	114.78	0.067	0.073	1.70	1.85	0.253	0.115
	MS29561-048	4.709	4.769	119.61	121.13	0.067	0.073	1.70	1.85	0.267	0.121
	MS29561-049	4.952	5.026	125.78	127.66	0.067	0.073	1.70	1.85	0.282	0.128
	MS29561-050	5.202	5.276	132.13	134.01	0.067	0.073	1.70	1.85	0.295	0.134

TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

NOTE	PART NUMBER	ØD (INCHES)		ØD (mm)		ØW (INCHES)		ØW (mm)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
	MS29561-102	0.044	0.054	1.12	1.37	0.100	0.106	2.54	2.69	0.018	0.008
	MS29561-103	0.076	0.086	1.93	2.18	0.100	0.106	2.54	2.69	0.022	0.010
	MS29561-104	0.107	0.117	2.72	2.97	0.100	0.106	2.54	2.69	0.026	0.012
	MS29561-105	0.138	0.148	3.51	3.76	0.100	0.106	2.54	2.69	0.029	0.013
	MS29561-106	0.169	0.179	4.29	4.55	0.100	0.106	2.54	2.69	0.034	0.015
	MS29561-107	0.201	0.211	5.11	5.36	0.100	0.106	2.54	2.69	0.037	0.017
	MS29561-108	0.232	0.242	5.89	6.15	0.100	0.106	2.54	2.69	0.041	0.019
	MS29561-109	0.294	0.304	7.47	7.72	0.100	0.106	2.54	2.69	0.048	0.022
	MS29561-110	0.357	0.367	9.07	9.32	0.100	0.106	2.54	2.69	0.056	0.025
	MS29561-111	0.419	0.429	10.64	10.90	0.100	0.106	2.54	2.69	0.063	0.029
	MS29561-112	0.482	0.492	12.24	12.50	0.100	0.106	2.54	2.69	0.071	0.032
	MS29561-113	0.542	0.556	13.77	14.12	0.100	0.106	2.54	2.69	0.079	0.036
	MS29561-114	0.603	0.621	15.32	15.77	0.100	0.106	2.54	2.69	0.086	0.039
	MS29561-115	0.665	0.683	16.89	17.35	0.100	0.106	2.54	2.69	0.093	0.042
	MS29561-116	0.728	0.746	18.49	18.95	0.100	0.106	2.54	2.69	0.101	0.046
	MS29561-117	0.789	0.809	20.04	20.55	0.100	0.106	2.54	2.69	0.108	0.049
	MS29561-118	0.852	0.872	21.64	22.15	0.100	0.106	2.54	2.69	0.116	0.053
	MS29561-119	0.914	0.934	23.22	23.72	0.100	0.106	2.54	2.69	0.124	0.056
	MS29561-120	0.977	0.997	24.82	25.32	0.100	0.106	2.54	2.69	0.131	0.059
	MS29561-121	1.039	1.059	26.39	26.90	0.100	0.106	2.54	2.69	0.139	0.063
	MS29561-122	1.102	1.122	27.99	28.50	0.100	0.106	2.54	2.69	0.146	0.066
	MS29561-123	1.162	1.186	29.51	30.12	0.100	0.106	2.54	2.69	0.154	0.070
	MS29561-124	1.225	1.249	31.12	31.72	0.100	0.106	2.54	2.69	0.161	0.073
	MS29561-125	1.287	1.311	32.69	33.30	0.100	0.106	2.54	2.69	0.169	0.077
	MS29561-126	1.350	1.374	34.29	34.90	0.100	0.106	2.54	2.69	0.176	0.080
	MS29561-127	1.412	1.436	35.86	36.47	0.100	0.106	2.54	2.69	0.184	0.083
	MS29561-128	1.475	1.499	37.46	38.07	0.100	0.106	2.54	2.69	0.191	0.087
	MS29561-129	1.534	1.564	38.96	39.73	0.100	0.106	2.54	2.69	0.199	0.090
	MS29561-130	1.597	1.627	40.56	41.33	0.100	0.106	2.54	2.69	0.207	0.094
	MS29561-131	1.659	1.689	42.14	42.90	0.100	0.106	2.54	2.69	0.214	0.097
	MS29561-132	1.722	1.752	43.74	44.50	0.100	0.106	2.54	2.69	0.222	0.101
	MS29561-133	1.784	1.814	45.31	46.08	0.100	0.106	2.54	2.69	0.230	0.104
	MS29561-134	1.847	1.877	46.91	47.68	0.100	0.106	2.54	2.69	0.236	0.107
	MS29561-135	1.908	1.942	48.46	49.33	0.100	0.106	2.54	2.69	0.244	0.111
	MS29561-136	1.970	2.004	50.04	50.90	0.100	0.106	2.54	2.69	0.252	0.114
	MS29561-137	2.033	2.067	51.64	52.50	0.100	0.106	2.54	2.69	0.259	0.117
	MS29561-138	2.095	2.129	53.21	54.08	0.100	0.106	2.54	2.69	0.267	0.121
	MS29561-139	2.158	2.192	54.81	55.68	0.100	0.106	2.54	2.69	0.274	0.124
	MS29561-140	2.220	2.254	56.39	57.25	0.100	0.106	2.54	2.69	0.282	0.128
	MS29561-141	2.280	2.320	57.91	58.93	0.100	0.106	2.54	2.69	0.289	0.131
	MS29561-142	2.342	2.382	59.49	60.50	0.100	0.106	2.54	2.69	0.297	0.135
	MS29561-143	2.405	2.445	61.09	62.10	0.100	0.106	2.54	2.69	0.304	0.138
	MS29561-144	2.467	2.507	62.66	63.68	0.100	0.106	2.54	2.69	0.312	0.142
	MS29561-145	2.530	2.570	64.26	65.28	0.100	0.106	2.54	2.69	0.319	0.145
	MS29561-146	2.592	2.632	65.84	66.85	0.100	0.106	2.54	2.69	0.327	0.148
	MS29561-147	2.653	2.697	67.39	68.50	0.100	0.106	2.54	2.69	0.334	0.152
	MS29561-148	2.715	2.759	68.96	70.08	0.100	0.106	2.54	2.69	0.342	0.155
	MS29561-149	2.778	2.822	70.56	71.68	0.100	0.106	2.54	2.69	0.350	0.159

(A) ↑

TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

NOTE	PART NUMBER	ØD (INCHES)		ØD (mm)		ØW (INCHES)		ØW (mm)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
(A)	MS29561-221	1.409	1.433	35.79	36.40	0.135	0.143	3.43	3.63	0.342	0.155
	MS29561-222	1.469	1.499	37.31	38.07	0.135	0.143	3.43	3.63	0.363	0.165
	MS29561-223	1.594	1.624	40.49	41.25	0.135	0.143	3.43	3.63	0.383	0.174
	MS29561-224	1.719	1.749	43.66	44.42	0.135	0.143	3.43	3.63	0.411	0.186
	MS29561-225	1.841	1.877	46.76	47.68	0.135	0.143	3.43	3.63	0.438	0.199
	MS29561-226	1.966	2.002	49.94	50.85	0.135	0.143	3.43	3.63	0.466	0.211
	MS29561-227	2.091	2.127	53.11	54.03	0.135	0.143	3.43	3.63	0.493	0.224
	MS29561-228	2.214	2.254	56.24	57.25	0.135	0.143	3.43	3.63	0.529	0.240
	MS29561-229	2.339	2.379	59.41	60.43	0.135	0.143	3.43	3.63	0.548	0.249
	MS29561-230	2.464	2.504	62.59	63.60	0.135	0.143	3.43	3.63	0.575	0.261
	MS29561-231	2.589	2.629	65.76	66.78	0.135	0.143	3.43	3.63	0.603	0.274
	MS29561-232	2.710	2.758	68.83	70.05	0.135	0.143	3.43	3.63	0.630	0.286
	MS29561-233	2.835	2.883	72.01	73.23	0.135	0.143	3.43	3.63	0.657	0.298
	MS29561-234	2.960	3.008	75.18	76.40	0.135	0.143	3.43	3.63	0.685	0.311
	MS29561-235	3.085	3.133	78.36	79.58	0.135	0.143	3.43	3.63	0.712	0.323
	MS29561-236	3.210	3.258	81.53	82.75	0.135	0.143	3.43	3.63	0.740	0.336
	MS29561-237	3.335	3.383	84.71	85.93	0.135	0.143	3.43	3.63	0.767	0.348
	MS29561-238	3.460	3.508	87.88	89.10	0.135	0.143	3.43	3.63	0.794	0.360
	MS29561-239	3.581	3.637	90.96	92.38	0.135	0.143	3.43	3.63	0.822	0.373
	MS29561-240	3.706	3.762	94.13	95.55	0.135	0.143	3.43	3.63	0.849	0.385
MS29561-241	3.831	3.887	97.31	98.73	0.135	0.143	3.43	3.63	0.877	0.398	
MS29561-242	3.956	4.012	100.48	101.90	0.135	0.143	3.43	3.63	0.904	0.410	
MS29561-243	4.081	4.137	103.66	105.08	0.135	0.143	3.43	3.63	0.932	0.423	
MS29561-244	4.204	4.264	106.76	108.31	0.135	0.143	3.43	3.63	0.959	0.435	
MS29561-245	4.329	4.389	109.96	111.48	0.135	0.143	3.43	3.63	0.986	0.447	
MS29561-246	4.454	4.514	113.13	114.66	0.135	0.143	3.43	3.63	1.014	0.460	
MS29561-247	4.579	4.639	116.31	117.83	0.135	0.143	3.43	3.63	1.041	0.472	
MS29561-248	4.704	4.764	119.48	121.01	0.135	0.143	3.43	3.63	1.068	0.484	
MS29561-249	4.824	4.894	122.53	124.31	0.135	0.143	3.43	3.63	1.096	0.497	
MS29561-250	4.949	5.019	125.70	127.48	0.135	0.143	3.43	3.63	1.123	0.509	
MS29561-251	5.074	5.144	128.88	130.66	0.135	0.143	3.43	3.63	1.151	0.522	
MS29561-252	5.199	5.269	132.05	133.83	0.135	0.143	3.43	3.63	1.178	0.534	
MS29561-253	5.324	5.394	135.23	137.01	0.135	0.143	3.43	3.63	1.206	0.547	
MS29561-254	5.449	5.519	138.40	140.18	0.135	0.143	3.43	3.63	1.233	0.559	
MS29561-255	5.574	5.644	141.58	143.36	0.135	0.143	3.43	3.63	1.260	0.572	
MS29561-256	5.699	5.769	144.75	146.53	0.135	0.143	3.43	3.63	1.288	0.584	
MS29561-257	5.824	5.894	147.93	149.71	0.135	0.143	3.43	3.63	1.315	0.596	
MS29561-258	5.949	6.019	151.10	152.88	0.135	0.143	3.43	3.63	1.343	0.609	
MS29561-259	6.194	6.274	157.33	159.36	0.135	0.143	3.43	3.63	1.397	0.634	
MS29561-260	6.444	6.524	163.68	165.71	0.135	0.143	3.43	3.63	1.452	0.659	
MS29561-261	6.694	6.774	170.03	172.06	0.135	0.143	3.43	3.63	1.507	0.684	
MS29561-262	6.944	7.024	176.38	178.41	0.135	0.143	3.43	3.63	1.562	0.708	
MS29561-263	7.189	7.279	182.60	184.89	0.135	0.143	3.43	3.63	1.617	0.733	
MS29561-264	7.439	7.529	188.95	191.24	0.135	0.143	3.43	3.63	1.672	0.758	
MS29561-265	7.689	7.779	195.30	197.59	0.135	0.143	3.43	3.63	1.726	0.783	
MS29561-266	7.939	8.029	201.65	203.94	0.135	0.143	3.43	3.63	1.781	0.808	
MS29561-267	8.184	8.284	207.87	210.41	0.135	0.143	3.43	3.63	1.836	0.833	
MS29561-268	8.434	8.534	214.22	216.76	0.135	0.143	3.43	3.63	1.891	0.858	
MS29561-269	8.684	8.784	220.57	223.11	0.135	0.143	3.43	3.63	1.946	0.883	
MS29561-270	8.934	9.034	226.92	229.46	0.135	0.143	3.43	3.63	2.000	0.907	

TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

NOTE	PART NUMBER	ØD (INCHES)		ØD (mm)		ØW (INCHES)		ØW (mm)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
(B)	MS29561-271	9.179	9.289	233.15	235.94	0.135	0.143	3.43	3.63	2.055	0.932
	MS29561-272	9.429	9.539	239.50	242.29	0.135	0.143	3.43	3.63	2.110	0.957
	MS29561-273	9.679	9.789	245.85	248.64	0.135	0.143	3.43	3.63	2.165	0.982
	MS29561-274	9.929	10.039	252.20	254.99	0.135	0.143	3.43	3.63	2.220	1.007
	MS29561-275	10.429	10.539	264.90	267.69	0.135	0.143	3.43	3.63	2.329	1.056
	MS29561-276	10.919	11.049	277.34	280.64	0.135	0.143	3.43	3.63	2.439	1.106
	MS29561-277	11.419	11.549	290.04	293.34	0.135	0.143	3.43	3.63	2.549	1.156
	MS29561-278	11.919	12.049	302.74	306.04	0.135	0.143	3.43	3.63	2.658	1.206
	MS29561-279	12.919	13.049	328.14	331.44	0.135	0.143	3.43	3.63	2.878	1.305
	MS29561-280	13.919	14.049	353.54	356.84	0.135	0.143	3.43	3.63	3.097	1.405
	MS29561-281	14.919	15.049	378.94	382.24	0.135	0.143	3.43	3.63	3.317	1.504
	MS29561-282	15.880	16.030	403.35	407.16	0.135	0.143	3.43	3.63	3.529	1.601
	MS29561-283	16.875	17.035	428.63	432.69	0.135	0.143	3.43	3.63	3.749	1.700
	MS29561-284	17.870	18.040	453.90	458.22	0.135	0.143	3.43	3.63	3.968	1.800
	MS29561-309	0.407	0.417	10.34	10.59	0.205	0.215	5.21	5.46	0.311	0.141
	MS29561-310	0.470	0.480	11.94	12.19	0.205	0.215	5.21	5.46	0.343	0.155
	MS29561-311	0.530	0.544	13.46	13.82	0.205	0.215	5.21	5.46	0.374	0.170
	MS29561-312	0.591	0.609	15.01	15.47	0.205	0.215	5.21	5.46	0.405	0.184
	MS29561-313	0.653	0.671	16.59	17.04	0.205	0.215	5.21	5.46	0.437	0.198
	MS29561-314	0.715	0.735	18.16	18.67	0.205	0.215	5.21	5.46	0.468	0.212
MS29561-315	0.777	0.797	19.74	20.24	0.205	0.215	5.21	5.46	0.499	0.226	
MS29561-316	0.840	0.860	21.34	21.84	0.205	0.215	5.21	5.46	0.530	0.241	
MS29561-317	0.902	0.922	22.91	23.42	0.205	0.215	5.21	5.46	0.562	0.255	
MS29561-318	0.965	0.985	24.51	25.02	0.205	0.215	5.21	5.46	0.593	0.269	
MS29561-319	1.027	1.047	26.09	26.59	0.205	0.215	5.21	5.46	0.624	0.283	
MS29561-320	1.088	1.112	27.64	28.24	0.205	0.215	5.21	5.46	0.656	0.297	
MS29561-321	1.150	1.174	29.21	29.82	0.205	0.215	5.21	5.46	0.687	0.311	
MS29561-322	1.213	1.237	30.81	31.42	0.205	0.215	5.21	5.46	0.718	0.326	
MS29561-323	1.275	1.299	32.39	32.99	0.205	0.215	5.21	5.46	0.749	0.340	
MS29561-324	1.338	1.362	33.99	34.59	0.205	0.215	5.21	5.46	0.781	0.354	
MS29561-325	1.460	1.490	37.08	37.85	0.205	0.215	5.21	5.46	0.843	0.382	
MS29561-326	1.585	1.615	40.26	41.02	0.205	0.215	5.21	5.46	0.906	0.411	
MS29561-327	1.710	1.740	43.43	44.20	0.205	0.215	5.21	5.46	0.969	0.440	
MS29561-328	1.835	1.865	46.61	47.37	0.205	0.215	5.21	5.46	1.031	0.468	
MS29561-329	1.957	1.993	49.71	50.62	0.205	0.215	5.21	5.46	1.094	0.496	
MS29561-330	2.082	2.118	52.88	53.80	0.205	0.215	5.21	5.46	1.156	0.524	
MS29561-331	2.207	2.243	56.06	56.97	0.205	0.215	5.21	5.46	1.219	0.553	
MS29561-332	2.332	2.368	59.23	60.15	0.205	0.215	5.21	5.46	1.282	0.582	
MS29561-333	2.455	2.495	62.36	63.37	0.205	0.215	5.21	5.46	1.344	0.610	
MS29561-334	2.580	2.620	65.53	66.55	0.205	0.215	5.21	5.46	1.407	0.638	
MS29561-335	2.705	2.745	68.71	69.72	0.205	0.215	5.21	5.46	1.469	0.666	
MS29561-336	2.830	2.870	71.88	72.90	0.205	0.215	5.21	5.46	1.532	0.695	
MS29561-337	2.951	2.999	74.96	76.17	0.205	0.215	5.21	5.46	1.594	0.723	
MS29561-338	3.076	3.124	78.13	79.35	0.205	0.215	5.21	5.46	1.657	0.752	
MS29561-339	3.201	3.249	81.31	82.52	0.205	0.215	5.21	5.46	1.719	0.780	
MS29561-340	3.326	3.374	84.48	85.70	0.205	0.215	5.21	5.46	1.782	0.808	

TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

NOTE	PART NUMBER	ØD (INCHES)		ØD (mm)		ØW (INCHES)		ØW (mm)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
	MS29561-341	3.451	3.499	87.66	88.87	0.205	0.215	5.21	5.46	1.845	0.837
	MS29561-342	3.572	3.628	90.73	92.15	0.205	0.215	5.21	5.46	1.907	0.865
	MS29561-343	3.697	3.753	93.90	95.33	0.205	0.215	5.21	5.46	1.970	0.894
	MS29561-344	3.822	3.878	97.08	98.50	0.205	0.215	5.21	5.46	2.032	0.922
	MS29561-345	3.947	4.003	100.25	101.68	0.205	0.215	5.21	5.46	2.095	0.950
	MS29561-346	4.072	4.128	103.43	104.85	0.205	0.215	5.21	5.46	2.157	0.978
	MS29561-347	4.195	4.255	106.55	108.08	0.205	0.215	5.21	5.46	2.220	1.007
	MS29561-348	4.320	4.380	109.73	111.25	0.205	0.215	5.21	5.46	2.282	1.035
	MS29561-349	4.445	4.505	112.90	114.43	0.205	0.215	5.21	5.46	2.345	1.064
	MS29561-350	4.570	4.630	116.08	117.60	0.205	0.215	5.21	5.46	2.408	1.092
	MS29561-351	4.695	4.755	119.25	120.78	0.205	0.215	5.21	5.46	2.470	1.120
	MS29561-352	4.820	4.880	122.43	123.95	0.205	0.215	5.21	5.46	2.533	1.149
	MS29561-353	4.938	5.012	125.43	127.30	0.205	0.215	5.21	5.46	2.595	1.177
	MS29561-354	5.063	5.137	128.60	130.46	0.205	0.215	5.21	5.46	2.658	1.205
	MS29561-355	5.188	5.262	131.78	133.65	0.205	0.215	5.21	5.46	2.720	1.234
	MS29561-356	5.313	5.387	134.95	136.83	0.205	0.215	5.21	5.46	2.783	1.262
	MS29561-357	5.438	5.512	138.13	140.00	0.205	0.215	5.21	5.46	2.846	1.291
	MS29561-358	5.563	5.637	141.30	143.18	0.205	0.215	5.21	5.46	2.908	1.319
	MS29561-359	5.688	5.762	144.48	146.35	0.205	0.215	5.21	5.46	2.971	1.347
	MS29561-360	5.813	5.887	147.65	149.53	0.205	0.215	5.21	5.46	3.033	1.376
	MS29561-361	5.938	6.012	150.83	152.70	0.205	0.215	5.21	5.46	3.096	1.404
	MS29561-362	6.185	6.265	157.10	159.13	0.205	0.215	5.21	5.46	3.221	1.461
	MS29561-363	6.435	6.515	163.45	165.48	0.205	0.215	5.21	5.46	3.346	1.517
	MS29561-364	6.685	6.765	169.80	171.83	0.205	0.215	5.21	5.46	3.471	1.574
	MS29561-365	6.935	7.015	176.15	178.18	0.205	0.215	5.21	5.46	3.596	1.631
	MS29561-366	7.180	7.270	182.37	184.66	0.205	0.215	5.21	5.46	3.721	1.688
	MS29561-367	7.430	7.520	188.72	191.01	0.205	0.215	5.21	5.46	3.847	1.744
	MS29561-368	7.680	7.770	195.07	197.36	0.205	0.215	5.21	5.46	3.972	1.801
	MS29561-369	7.930	8.020	201.42	203.71	0.205	0.215	5.21	5.46	4.097	1.858
(B)	MS29561-370	8.175	8.275	207.65	210.19	0.205	0.215	5.21	5.46	4.222	1.915
	MS29561-371	8.425	8.525	214.00	216.54	0.205	0.215	5.21	5.46	4.347	1.971
	MS29561-372	8.675	8.775	220.35	222.89	0.205	0.215	5.21	5.46	4.472	2.028
	MS29561-373	8.925	9.025	226.70	229.24	0.205	0.215	5.21	5.46	4.597	2.085
	MS29561-374	9.170	9.280	232.92	235.71	0.205	0.215	5.21	5.46	4.722	2.142
	MS29561-375	9.420	9.530	239.27	242.06	0.205	0.215	5.21	5.46	4.848	2.198
	MS29561-376	9.670	9.780	245.62	248.41	0.205	0.215	5.21	5.46	4.973	2.255
	MS29561-377	9.920	10.030	251.97	254.76	0.205	0.215	5.21	5.46	5.098	2.312
	MS29561-378	10.415	10.535	264.54	267.59	0.205	0.215	5.21	5.46	5.348	2.426
	MS29561-379	10.915	11.035	277.24	280.29	0.205	0.215	5.21	5.46	5.599	2.539
	MS29561-380	11.410	11.540	289.81	293.12	0.205	0.215	5.21	5.46	5.849	2.653
	MS29561-381	11.910	12.040	302.51	305.82	0.205	0.215	5.21	5.46	6.104	2.768
	MS29561-382	12.910	13.040	327.91	331.22	0.205	0.215	5.21	5.46	6.600	2.993
	MS29561-383	13.905	14.045	353.19	356.74	0.205	0.215	5.21	5.46	7.100	3.220
	MS29561-384	14.905	15.045	378.59	382.14	0.205	0.215	5.21	5.46	7.601	3.447
	MS29561-385	15.880	16.030	403.35	407.16	0.205	0.215	5.21	5.46	8.091	3.670
	MS29561-386	16.875	17.035	428.63	432.69	0.205	0.215	5.21	5.46	8.592	3.897
	MS29561-387	17.870	18.040	453.90	458.22	0.205	0.215	5.21	5.46	9.092	4.124
	MS29561-388	18.865	19.045	479.17	483.74	0.205	0.215	5.21	5.46	9.593	4.351
	MS29561-389	19.860	20.050	504.44	509.27	0.205	0.215	5.21	5.46	10.093	4.577
	MS29561-390	20.860	21.050	529.84	534.67	0.205	0.215	5.21	5.46	10.594	4.804

TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

NOTE	PART NUMBER	ØD (INCHES)		ØD (mm)		ØW (INCHES)		ØW (mm)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
(B) ↓	MS29561-391	21.855	22.055	555.12	560.20	0.205	0.215	5.21	5.46	11.094	5.031
	MS29561-392	22.835	23.045	580.01	585.34	0.205	0.215	5.21	5.46	11.587	5.255
	MS29561-393	23.830	24.050	605.26	610.87	0.205	0.215	5.21	5.46	12.088	5.482
	MS29561-394	24.825	25.055	630.56	636.40	0.205	0.215	5.21	5.46	12.588	5.709
	MS29561-395	25.820	26.060	655.83	661.92	0.205	0.215	5.21	5.46	13.089	5.936
	MS29561-425	4.442	4.508	112.83	114.50	0.269	0.281	6.83	7.14	4.077	1.849
	MS29561-426	4.567	4.633	116.00	117.68	0.269	0.281	6.83	7.14	4.185	1.898
	MS29561-427	4.692	4.758	119.18	120.85	0.269	0.281	6.83	7.14	4.292	1.947
	MS29561-428	4.817	4.883	122.35	124.03	0.269	0.281	6.83	7.14	4.399	1.995
	MS29561-429	4.938	5.012	125.43	127.30	0.269	0.281	6.83	7.14	4.506	2.044
	MS29561-430	5.063	5.137	128.60	130.48	0.269	0.281	6.83	7.14	4.814	2.093
	MS29561-431	5.188	5.262	131.78	133.65	0.269	0.281	6.83	7.14	4.721	2.141
	MS29561-432	5.313	5.387	134.95	136.83	0.269	0.281	6.83	7.14	4.828	2.190
	MS29561-433	5.438	5.512	138.13	140.00	0.269	0.281	6.83	7.14	4.935	2.239
	MS29561-434	5.563	5.637	141.30	143.18	0.269	0.281	6.83	7.14	5.042	2.287
	MS29561-435	5.688	5.762	144.48	146.35	0.269	0.281	6.83	7.14	5.150	2.336
	MS29561-436	5.813	5.887	147.65	149.53	0.269	0.281	6.83	7.14	5.257	2.385
	MS29561-437	5.938	6.012	150.83	152.70	0.269	0.281	6.83	7.14	5.364	2.433
	MS29561-438	6.185	6.265	157.10	159.13	0.269	0.281	6.83	7.14	5.579	2.531
	MS29561-439	6.435	6.515	163.45	165.48	0.269	0.281	6.83	7.14	5.794	2.628
	MS29561-440	6.685	6.765	169.80	171.83	0.269	0.281	6.83	7.14	6.008	2.725
	MS29561-441	6.935	7.015	176.15	178.18	0.269	0.281	6.83	7.14	6.223	2.823
	MS29561-442	7.180	7.270	182.37	184.66	0.269	0.281	6.83	7.14	6.438	2.920
	MS29561-443	7.430	7.520	188.72	191.01	0.269	0.281	6.83	7.14	6.652	3.017
	MS29561-444	7.680	7.770	195.07	197.36	0.269	0.281	6.83	7.14	6.867	3.115
	MS29561-445	7.930	8.020	201.42	203.71	0.269	0.281	6.83	7.14	7.081	3.212
	MS29561-446	8.420	8.530	213.87	216.66	0.269	0.281	6.83	7.14	7.510	3.407
	MS29561-447	8.920	9.030	226.57	229.36	0.269	0.281	6.83	7.14	7.940	3.602
	MS29561-448	9.420	9.530	239.27	242.06	0.269	0.281	6.83	7.14	8.369	3.796
	MS29561-449	9.920	10.030	251.97	254.76	0.269	0.281	6.83	7.14	8.798	3.991
	MS29561-450	10.415	10.535	264.54	267.59	0.269	0.281	6.83	7.14	9.227	4.185
	MS29561-451	10.915	11.035	277.24	280.29	0.269	0.281	6.83	7.14	9.656	4.380
	MS29561-452	11.415	11.535	289.94	292.99	0.269	0.281	6.83	7.14	10.086	4.575
	MS29561-453	11.915	12.035	302.64	305.69	0.269	0.281	6.83	7.14	10.515	4.770
	MS29561-454	12.415	12.535	315.34	318.39	0.269	0.281	6.83	7.14	10.944	4.964
	MS29561-455	12.915	13.035	328.04	331.09	0.269	0.281	6.83	7.14	11.373	5.159
	MS29561-456	13.405	13.545	340.49	344.04	0.269	0.281	6.83	7.14	11.802	5.353
	MS29561-457	13.905	14.045	353.19	356.74	0.269	0.281	6.83	7.14	12.231	5.548
	MS29561-458	14.405	14.545	365.89	369.44	0.269	0.281	6.83	7.14	12.660	5.742
	MS29561-459	14.905	15.045	378.59	382.14	0.269	0.281	6.83	7.14	13.090	5.938
	MS29561-460	15.405	15.545	391.29	394.84	0.269	0.281	6.83	7.14	13.519	6.132
(B) ↓	MS29561-461	15.880	16.030	403.35	407.16	0.269	0.281	6.83	7.14	13.931	6.318
	MS29561-462	16.380	16.530	416.05	419.86	0.269	0.281	6.83	7.14	14.360	6.513
	MS29561-463	16.875	17.035	428.63	432.69	0.269	0.281	6.83	7.14	14.790	6.707
	MS29561-464	17.370	17.540	441.20	445.52	0.269	0.281	6.83	7.14	15.219	6.902
	MS29561-465	17.870	18.040	453.90	458.22	0.269	0.281	6.83	7.14	15.648	7.097