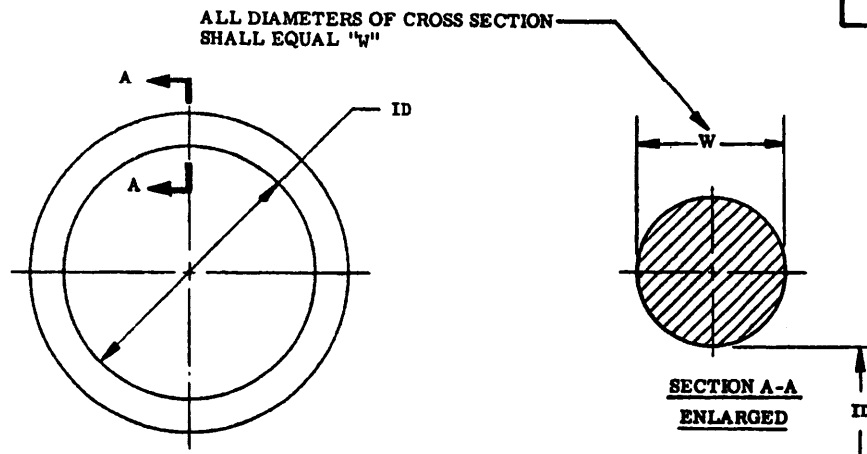


PROJECT NO. 5330-0452

FED. SUP CLASS
5330

USER SYMBOLS:

REVIEWER SYMBOLS:

ARMY - WC
USAF - 11
DSA - IS

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engineering and design applications and for repetitive use shall
be made from this document.

RING SIZE	DIA W				ID			
	INCHES		MILLIMETERS		INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
-001	0.037	0.043	0.940	1.092	0.025	0.033	0.635	0.838
-002	0.047	0.053	1.194	1.346	0.038	0.046	0.965	1.168
-003	0.057	0.063	1.448	1.600	0.052	0.060	1.321	1.524
-004	0.067	0.073	1.702	1.854	0.065	0.075	1.65	1.90
-005					0.096	0.106	2.44	2.69
-006					0.109	0.119	2.77	3.02
-007					0.140	0.150	3.56	3.81
-008					0.171	0.181	4.34	4.60
-009					0.203	0.213	5.16	5.41
-010					0.234	0.244	5.94	6.20
-011					0.296	0.306	7.52	7.77
-012					0.359	0.369	9.12	9.37
-013					0.421	0.431	10.69	10.95
-014					0.484	0.494	12.29	12.55
-015					0.544	0.558	13.82	14.17
-016					0.605	0.623	15.37	15.82
-017					0.667	0.685	16.94	17.40
-018					0.730	0.748	18.54	19.00
-019					0.792	0.810	20.12	20.57
-020					0.855	0.873	21.72	22.17
-021					0.917	0.935	23.29	23.75
-022					0.979	0.999	24.87	25.37
-023					1.041	1.061	26.44	26.95
-024					1.104	1.124	28.04	28.55
-025					1.165	1.187	29.59	30.15
-026					1.228	1.250	31.19	31.75
-027					1.290	1.312	32.77	33.32
-028					1.351	1.377	34.32	34.98
-029					1.476	1.502	37.49	38.15
-030					1.601	1.627	40.67	41.33
-031					1.724	1.754	43.79	44.55
-032					1.849	1.879	46.96	47.73
-033					1.971	2.007	50.06	50.98
-034					2.096	2.132	53.24	54.15
-035					2.221	2.257	56.41	57.33
-036					2.346	2.382	59.59	60.50
-037					2.471	2.507	62.76	63.68
-038					2.594	2.634	65.89	66.90
-039					2.719	2.759	69.06	70.08
-040					2.844	2.884	72.24	73.25
-041					2.965	3.013	75.31	76.53
-042					3.215	3.263	81.66	82.88
-043	0.067	0.073	1.702	1.854	3.465	3.513	88.01	89.23

C REVISED

P.A. NAVY - AS Other Cust USAF - 82 ARMY - AV	INTER- NATIONAL INTEREST *	TITLE PACKING, PREFORMED - AERONAUTICAL ELASTOMERIC, RANGE OF SIZES	MILITARY STANDARD MS33666
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:	SHEET 1 OF 5	

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PLATE NO. 22066

APPROVED 1 AUG 61 REVISED A 3 DEC 65 B 20 SEPT 67 C 18 JUL 75

FED. SUP CLASS
5330

USER SYMBOLS:

REVIEWER SYMBOLS:

ARMY - WC
USAF - 11
DSA - ES

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be made from this document.

RING SIZE	DIA W				ID			
	INCHES		MILLIMETERS		INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
-044	0.067	0.073	1.702	1.854	3.712	3.766	94.28	95.66
-045					3.962	4.016	100.63	102.01
-046					4.209	4.269	106.91	108.43
-047					4.459	4.519	113.26	114.78
-048					4.709	4.769	119.61	121.13
-049					4.952	5.026	125.78	127.66
-050	0.067	0.073	1.702	1.854	5.202	5.276	132.13	134.01
-106	0.100	0.106	2.540	2.692	0.169	0.179	4.29	4.55
-107					0.201	0.211	5.11	5.36
-108					0.232	0.242	5.89	6.15
-109					0.294	0.304	7.47	7.72
-110					0.357	0.367	9.07	9.32
-111					0.419	0.429	10.64	10.90
-112					0.482	0.492	12.24	12.50
-113					0.542	0.556	13.77	14.12
-114					0.603	0.621	15.32	15.77
-115					0.665	0.683	16.89	17.35
-116					0.728	0.746	18.49	18.95
-117					0.789	0.809	20.04	20.55
-118					0.852	0.872	21.64	22.15
-119					0.914	0.934	23.22	23.72
-120					0.977	0.997	24.82	25.32
-121					1.039	1.059	26.39	26.90
-122					1.102	1.122	27.99	28.50
-123					1.162	1.186	29.51	30.12
-124					1.225	1.249	31.12	31.72
-125					1.287	1.311	32.69	33.30
-126					1.350	1.374	34.29	34.90
-127					1.412	1.436	35.86	36.47
-128					1.475	1.499	37.46	38.07
-129					1.534	1.564	38.96	39.73
-130					1.597	1.627	40.56	41.33
-131					1.659	1.689	42.14	42.90
-132					1.722	1.752	43.74	44.50
-133					1.784	1.814	45.31	46.08
-134					1.847	1.877	46.91	47.68
-135					1.908	1.942	48.46	49.33
-136					1.970	2.004	50.04	50.90
-137					2.033	2.067	51.64	52.50
-138					2.095	2.129	53.21	54.08
-139					2.158	2.192	54.81	55.68
-140					2.220	2.254	56.39	57.25
-141					2.280	2.320	57.91	58.93
-142					2.342	2.382	59.49	60.50
-143					2.405	2.445	61.09	62.10
-144					2.467	2.507	62.66	63.68
-145					2.530	2.570	64.26	65.28
-146					2.592	2.632	65.84	66.85
-147					2.653	2.697	67.39	68.50
-148					2.715	2.759	68.96	70.08
-149					2.776	2.822	70.56	71.68
-150					2.840	2.884	72.14	73.25
-151					2.963	3.011	75.26	76.48
-152					3.213	3.261	81.61	82.83
-153					3.463	3.511	87.96	89.18
-154					3.709	3.765	94.21	95.63
-155					3.959	4.015	100.56	101.98
-156					4.207	4.267	106.86	108.38
-157					4.457	4.517	113.21	114.73
-158					4.707	4.767	119.56	121.08
-159	0.100	0.106	2.540	2.692	4.952	5.022	125.78	127.56

P.A.
NAVY - AS
Other Cust
USAF - 82
ARMY - AVINTER-
NATIONAL
INTEREST
*

TITLE

PACKING, PREFORMED - AERONAUTICAL ELASTOMERIC,
RANGE OF SIZESPROCUREMENT SPECIFICATION
NONE

SUPERSEDES.

MILITARY STANDARD

MS33666

SHEET 2 OF 5

APPROVED 1 AUG 61 REVISED (A) 3 DEC 65 (B) 20 SEPT 67 (C) FOR CHANGES SEE SHEETS 1 THROUGH 5

FED. SUP CLASS
5330

USER SYMBOLS:

REVIEWER SYMBOLS:

ARMY - WC
USAF - 11
DSA - ES

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RING SIZE	DIA W				ID			
	INCHES		MILLIMETERS		INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
-160	0.100	0.106	2.540	2.692	5.202	5.272	132.13	133.91
-161	↑	↑	↑	↑	5.452	5.522	138.48	140.26
-162	↑	↑	↑	↑	5.702	5.772	144.83	146.61
-163	↑	↑	↑	↑	5.952	6.022	151.18	152.96
-164	↑	↑	↑	↑	6.197	6.277	157.40	159.44
-165	↑	↑	↑	↑	6.447	6.527	163.75	165.79
-166	↑	↑	↑	↑	6.697	6.777	170.10	172.14
-167	↑	↑	↑	↑	6.947	7.027	176.45	178.49
-168	↑	↑	↑	↑	7.192	7.282	182.68	184.96
-169	↑	↑	↑	↑	7.442	7.532	189.03	191.31
-170	↑	↑	↑	↑	7.692	7.782	195.38	197.66
-171	↑	↑	↑	↑	7.942	8.032	201.73	204.01
-172	↑	↑	↑	↑	8.187	8.287	207.9	210.5
-173	↑	↑	↑	↑	8.437	8.537	214.3	216.8
-174	↑	↑	↑	↑	8.687	8.787	220.6	223.2
-175	↑	↑	↑	↑	8.937	9.037	227.0	229.5
-176	↑	↑	↑	↑	9.182	9.292	233.2	236.0
-177	↑	↑	↑	↑	9.432	9.542	239.6	242.4
-178	0.100	0.106	2.540	2.692	9.682	9.792	245.9	248.7
-210	0.135	0.143	3.429	3.632	0.724	0.744	18.39	18.90
-211	↑	↑	↑	↑	0.786	0.806	19.96	20.47
-212	↑	↑	↑	↑	0.849	0.869	21.56	22.07
-213	↑	↑	↑	↑	0.911	0.931	23.14	23.65
-214	↑	↑	↑	↑	0.974	0.994	24.74	25.25
-215	↑	↑	↑	↑	1.036	1.056	26.31	26.82
-216	↑	↑	↑	↑	1.097	1.121	27.86	28.47
-217	↑	↑	↑	↑	1.159	1.183	29.44	30.05
-218	↑	↑	↑	↑	1.222	1.246	31.04	31.65
-219	↑	↑	↑	↑	1.284	1.308	32.61	33.22
-220	↑	↑	↑	↑	1.347	1.371	34.21	34.82
-221	↑	↑	↑	↑	1.409	1.433	35.79	36.40
-222	↑	↑	↑	↑	1.469	1.499	37.31	38.07
-223	↑	↑	↑	↑	1.594	1.624	40.49	41.25
-224	↑	↑	↑	↑	1.719	1.749	43.66	44.42
-225	↑	↑	↑	↑	1.841	1.877	46.76	47.68
-226	↑	↑	↑	↑	1.966	2.002	49.94	50.85
-227	↑	↑	↑	↑	2.091	2.127	53.11	54.03
-228	↑	↑	↑	↑	2.214	2.254	56.24	57.25
-229	↑	↑	↑	↑	2.339	2.379	59.41	60.43
-230	↑	↑	↑	↑	2.464	2.504	62.59	63.60
-231	↑	↑	↑	↑	2.589	2.629	65.76	66.78
-232	↑	↑	↑	↑	2.710	2.758	68.83	70.05
-233	↑	↑	↑	↑	2.835	2.883	72.01	73.23
-234	↑	↑	↑	↑	2.960	3.008	75.18	76.40
-235	↑	↑	↑	↑	3.085	3.133	78.36	79.58
-236	↑	↑	↑	↑	3.210	3.258	81.53	82.75
-237	↑	↑	↑	↑	3.335	3.383	84.71	85.93
-238	↑	↑	↑	↑	3.460	3.508	87.88	89.10
-239	↑	↑	↑	↑	3.581	3.637	90.96	92.38
-240	↑	↑	↑	↑	3.706	3.762	94.13	95.55
-241	↑	↑	↑	↑	3.831	3.887	97.31	98.73
-242	↑	↑	↑	↑	3.956	4.012	100.48	101.90
-243	↑	↑	↑	↑	4.081	4.137	103.66	105.08
-244	↑	↑	↑	↑	4.204	4.264	106.78	108.31
-245	↑	↑	↑	↑	4.329	4.389	109.96	111.48
-246	↑	↑	↑	↑	4.454	4.514	113.13	114.66
-247	↑	↑	↑	↑	4.579	4.639	116.31	117.83
-248	↑	↑	↑	↑	4.704	4.764	119.48	121.01
-249	↑	↑	↑	↑	4.824	4.894	122.53	124.31
-250	↑	↑	↑	↑	4.949	5.019	125.70	127.48
-251	0.135	0.143	3.429	3.632	5.074	5.144	128.88	130.66

P.A.
NAVY - AS
Other Cust
USAF - 82
ARMY - AVINTER-
NATIONAL
INTERESTTITLE
PACKING, PREFORMED - AERONAUTICAL ELASTOMERIC.
RANGE OF SIZES

MILITARY STANDARD

MS33666

PROCUREMENT SPECIFICATION
NONE

SUPERSEDES

SHEET 3 OF 5

FED. SUP CLASS
5330

USER SYMBOLS:

REVIEWER SYMBOLS:

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ARMY - WC
USAF - 11
DSA - IS

RING SIZE	DIA W				ID			
	INCHES		MILLIMETERS		INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
-252	0.135	0.143	3.429	3.632	5.199	5.269	132.05	133.83
-253	↑	↑	↑	↑	5.324	5.394	135.23	137.01
-254	↑	↑	↑	↑	5.449	5.519	138.40	140.18
-255	↑	↑	↑	↑	5.574	5.644	141.58	143.36
-256	↑	↑	↑	↑	5.699	5.769	144.75	146.53
-257	↑	↑	↑	↑	5.824	5.894	147.93	149.71
-258	↑	↑	↑	↑	5.949	6.019	151.10	152.88
-259	↑	↑	↑	↑	6.194	6.274	157.33	159.36
-260	↑	↑	↑	↑	6.444	6.524	163.68	165.71
-261	↑	↑	↑	↑	6.694	6.774	170.03	172.06
-262	↑	↑	↑	↑	6.944	7.024	176.38	178.41
-263	↑	↑	↑	↑	7.189	7.279	182.60	184.89
-264	↑	↑	↑	↑	7.439	7.529	188.95	191.24
-265	↑	↑	↑	↑	7.689	7.779	195.30	197.59
-266	↑	↑	↑	↑	7.939	8.029	201.65	203.94
-267	↑	↑	↑	↑	8.184	8.284	207.9	210.4
-268	↑	↑	↑	↑	8.434	8.534	214.2	216.8
-269	↑	↑	↑	↑	8.684	8.784	220.6	223.1
-270	↑	↑	↑	↑	8.934	9.034	226.9	229.5
-271	↑	↑	↑	↑	9.179	9.289	233.1	235.9
-272	↑	↑	↑	↑	9.429	9.539	239.5	242.3
-273	↑	↑	↑	↑	9.679	9.789	245.8	248.6
-274	↑	↑	↑	↑	9.929	10.039	252.2	255.0
-275	↑	↑	↑	↑	10.429	10.539	264.9	267.7
-276	↑	↑	↑	↑	10.919	11.049	277.3	280.6
-277	↑	↑	↑	↑	11.419	11.549	290.0	293.3
-278	↑	↑	↑	↑	11.919	12.049	302.7	306.0
-279	↑	↑	↑	↑	12.919	13.049	328.1	331.4
-280	↑	↑	↑	↑	13.919	14.049	353.5	356.8
-281	0.135	0.143	3.429	3.632	14.919	15.049	378.9	382.2
-325	0.205	0.215	5.21	5.46	1.400	1.490	37.08	37.85
-326	↑	↑	↑	↑	1.585	1.615	40.26	41.02
-327	↑	↑	↑	↑	1.710	1.740	43.43	44.20
-328	↑	↑	↑	↑	1.835	1.865	46.61	47.37
-329	↑	↑	↑	↑	1.957	1.993	49.71	50.62
-330	↑	↑	↑	↑	2.082	2.118	52.88	53.80
-331	↑	↑	↑	↑	2.207	2.243	56.06	56.97
-332	↑	↑	↑	↑	2.332	2.368	59.23	60.15
-333	↑	↑	↑	↑	2.455	2.495	62.36	63.37
-334	↑	↑	↑	↑	2.580	2.620	65.53	66.55
-335	↑	↑	↑	↑	2.705	2.745	68.71	69.72
-336	↑	↑	↑	↑	2.830	2.870	71.88	72.90
-337	↑	↑	↑	↑	2.951	2.999	74.96	76.17
-338	↑	↑	↑	↑	3.076	3.124	78.13	79.35
-339	↑	↑	↑	↑	3.201	3.249	81.31	82.52
-340	↑	↑	↑	↑	3.326	3.374	84.48	85.70
-341	↑	↑	↑	↑	3.451	3.499	87.66	88.87
-342	↑	↑	↑	↑	3.572	3.628	90.73	92.15
-343	↑	↑	↑	↑	3.697	3.753	93.90	95.33
-344	↑	↑	↑	↑	3.822	3.878	97.08	98.60
-345	↑	↑	↑	↑	3.947	4.003	100.25	101.68
-346	↑	↑	↑	↑	4.072	4.128	103.43	104.85
-347	↑	↑	↑	↑	4.195	4.255	106.55	108.08
-348	↑	↑	↑	↑	4.320	4.380	109.73	111.25
-349	0.205	0.215	5.21	5.46	4.445	4.505	112.90	114.43

P.A.
NAVY - A5
Other Cust
USAF - 82
ARMY - AV

INTER-
NATIONAL
INTEREST
*

TITLE
PACKING, PREFORMED - AERONAUTICAL ELASTOMERIC.
RANGE OF SIZES

MILITARY STANDARD

MS33666

PROCUREMENT SPECIFICATION
NONE

SUPERSEDES.

SHEET 4 OF 5

FED. SUP CLASS
6330

USER SYMBOLS:

REVIEWER SYMBOLS:

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USAF - 11
DSA - IS

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RING SIZE	DIA W				ID			
	INCHES		MILLIMETERS		INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
-425	0.269	0.281	6.83	7.14	4.442	4.508	112.83	114.50
-426					4.587	4.633	116.00	117.68
-427					4.692	4.758	119.18	120.85
-428					4.817	4.883	122.35	124.03
-429					4.938	5.012	125.43	127.30
-430					5.063	5.137	128.60	130.48
-431					5.188	5.262	131.78	133.65
-432					5.313	5.387	134.95	136.83
-433					5.438	5.512	138.13	140.00
-434					5.563	5.637	141.30	143.18
-435					5.688	5.762	144.48	146.35
-436					5.813	5.887	147.65	149.53
-437					5.938	6.012	150.83	152.70
-438					6.185	6.265	157.10	159.13
-439					6.435	6.515	163.45	165.48
-440					6.685	6.765	169.80	171.83
-441					6.935	7.015	176.15	178.18
-442					7.180	7.270	182.37	184.66
-443					7.430	7.520	188.72	191.01
-444					7.680	7.770	195.07	197.36
-445					7.930	8.020	201.42	203.71
-446					8.420	8.530	213.9	216.7
-447					8.920	9.030	226.6	229.4
-448					9.420	9.530	239.3	242.1
-449					9.920	10.030	252.0	254.8
-450					10.415	10.535	264.5	267.6
-451					10.915	11.035	277.2	280.3
-452					11.415	11.535	289.9	293.0
-453					11.915	12.035	302.6	305.7
-454					12.415	12.535	315.3	318.4
-455					12.915	13.035	328.0	331.1
-456					13.405	13.545	340.5	344.0
-457					13.905	14.045	353.2	356.7
-458					14.405	14.545	365.9	369.4
-459					14.905	15.045	378.6	382.1
-460	0.269	0.281	6.83	7.14	15.405	15.545	391.3	394.8

ELASTOMERIC O-RINGS USED IN AIRCRAFT, AND AIRCRAFT ENGINES INCLUDING THOSE IN AIRCRAFT COMPONENTS THAT ARE WITHIN THE RANGE LISTED IN THE TABLE SHALL BE SELECTED FROM THE SIZES LISTED THEREIN. THE TABLE LISTS ONLY THE DIMENSIONS OF O-RINGS.

THE NUMBERING METHOD SHOWN IN THE TABLE SHALL BE USED TO DESIGNATE A PARTICULAR SIZE OF O-RING (FOR EXAMPLE A NUMBER 110 SIZE O-RING WILL HAVE A CROSS-SECTION OF .103 AND AN INSIDE DIAMETER OF .362).

THE LIST OF O-RING SIZES IN THIS STANDARD DOES NOT INCLUDE THOSE O-RINGS USED TO SEAL THE INSTALLATION OF TUBE FITTINGS IN BOSSES OR TAPPED HOLES. (SEE MS33668).

* CERTAIN PROVISIONS (INSIDE DIAMETERS, CROSS SECTION DIMENSIONS AND TOLERANCES) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ASCC AIR STD 17/27 AND NATO STANAG 3444. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL EFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED.

THIS IS A DESIGN STANDARD. NOT TO BE USED AS A PART NUMBER.

P.A. NAVY - AS Other Cust	INTER- NATIONAL INTEREST	TITLE	MILITARY STANDARD
USAF - 82 ARMY - AV	*	PACKING, PREFORMED - AERONAUTICAL ELASTOMERIC, RANGE OF SIZES	MS33666
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:	SHEET 5 OF 5	

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PLATE NO. 2308

APPROVED 1 AUG 61 REVISED (A) 3 DEC 65 (B) 20 SEPT 67 (C) FOR CHANGES SEE SHEETS 1 THROUGH 5