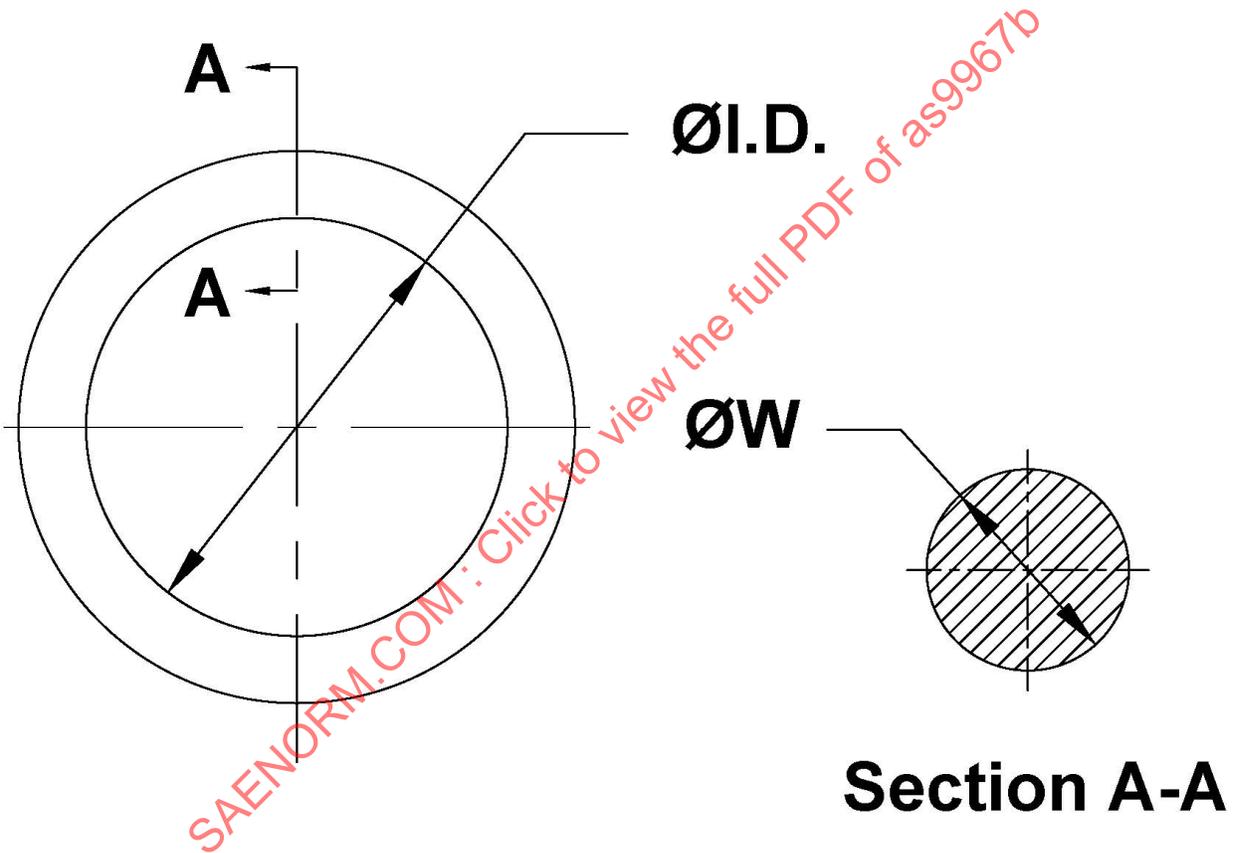


<b>AEROSPACE STANDARD</b>	<b>AS9967™</b>	<b>REV. B</b>
	Issued 1994-11 Reaffirmed 2018-08 Revised 2022-06  Superseding AS9967A	
O-Ring Molded from AMS7273 Fluorosilicone (FVMQ) Rubber Material		

RATIONALE

The part number prefix is being changed from AS to MS to avoid confusion in the industry and the MS9966 boss sizes were added. No other changes have been made.



**Figure 1 - O-ring dimensions - width (ØW) and inside diameter (ØID)**

NOTE: Dimensions and tolerancing per ASME Y14.5.

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Table 1 - Part numbers and dimensions

App Note	Part Number	ØID		ØW		Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
	MS9967-001	0.025/0.033	0.64/ 0.84	0.037/0.043	0.94/1.09	0.001	0.001
	MS9967-002	0.038/0.046	0.97/ 1.17	0.047/0.053	1.19/1.35	0.003	0.001
	MS9967-003	0.052/0.060	1.32/ 1.52	0.057/0.063	1.45/1.60	0.005	0.002
	MS9967-004	0.065/0.075	1.65/ 1.91	0.067/0.073	1.70/1.85	0.008	0.004
	MS9967-005	0.096/0.106	2.44/ 2.69	0.067/0.073	1.70/1.85	0.010	0.005
	MS9967-006	0.109/0.119	2.77/ 3.02	0.067/0.073	1.70/1.85	0.010	0.005
	MS9967-007	0.140/0.150	3.56/ 3.81	0.067/0.073	1.70/1.85	0.012	0.005
	MS9967-008	0.171/0.181	4.34/ 4.60	0.067/0.073	1.70/1.85	0.014	0.006
	MS9967-009	0.203/0.213	5.16/ 5.41	0.067/0.073	1.70/1.85	0.016	0.007
	MS9967-010	0.234/0.244	5.94/ 6.20	0.067/0.073	1.70/1.85	0.017	0.008
	MS9967-011	0.296/0.306	7.52/ 7.77	0.067/0.073	1.70/1.85	0.021	0.010
	MS9967-012	0.359/0.369	9.12/ 9.37	0.067/0.073	1.70/1.85	0.024	0.011
	MS9967-013	0.421/0.431	10.69/ 10.95	0.067/0.073	1.70/1.85	0.028	0.013
	MS9967-014	0.484/0.494	12.29/ 12.55	0.067/0.073	1.70/1.85	0.031	0.014
	MS9967-015	0.544/0.558	13.82/ 14.17	0.067/0.073	1.70/1.85	0.035	0.016
	MS9967-016	0.605/0.623	15.37/ 15.82	0.067/0.073	1.70/1.85	0.038	0.017
	MS9967-017	0.667/0.685	16.94/ 17.40	0.067/0.073	1.70/1.85	0.041	0.019
	MS9967-018	0.730/0.748	18.54/ 19.00	0.067/0.073	1.70/1.85	0.045	0.020
	MS9967-019	0.792/0.810	20.12/ 20.57	0.067/0.073	1.70/1.85	0.048	0.022
	MS9967-020	0.855/0.873	21.72/ 22.17	0.067/0.073	1.70/1.85	0.052	0.024
	MS9967-021	0.917/0.935	23.29/ 23.75	0.067/0.073	1.70/1.85	0.055	0.025
	MS9967-022	0.979/0.999	24.87/ 25.37	0.067/0.073	1.70/1.85	0.059	0.027
(a)	MS9967-023	1.041/1.061	26.44/ 26.95	0.067/0.073	1.70/1.85	0.063	0.029
	MS9967-024	1.104/1.124	28.04/ 28.55	0.067/0.073	1.70/1.85	0.066	0.030
	MS9967-025	1.165/1.187	29.59/ 30.15	0.067/0.073	1.70/1.85	0.070	0.032
	MS9967-026	1.228/1.250	31.19/ 31.75	0.067/0.073	1.70/1.85	0.073	0.033
	MS9967-027	1.290/1.312	32.77/ 33.33	0.067/0.073	1.70/1.85	0.076	0.035
	MS9967-028	1.351/1.377	34.32/ 34.98	0.067/0.073	1.70/1.85	0.080	0.036
	MS9967-029	1.476/1.502	37.49/ 38.15	0.067/0.073	1.70/1.85	0.087	0.039
	MS9967-030	1.601/1.627	40.67/ 41.33	0.067/0.073	1.70/1.85	0.094	0.043
	MS9967-031	1.724/1.754	43.79/ 44.55	0.067/0.073	1.70/1.85	0.101	0.046
	MS9967-032	1.849/1.879	46.97/ 47.73	0.067/0.073	1.70/1.85	0.108	0.049
	MS9967-033	1.971/2.007	50.06/ 50.98	0.067/0.073	1.70/1.85	0.115	0.052
	MS9967-034	2.096/2.132	53.24/ 54.15	0.067/0.073	1.70/1.85	0.121	0.055
	MS9967-035	2.221/2.257	56.41/ 57.33	0.067/0.073	1.70/1.85	0.128	0.058
	MS9967-036	2.346/2.382	59.59/ 60.50	0.067/0.073	1.70/1.85	0.135	0.061
(b)	MS9967-037	2.471/2.507	62.76/ 63.68	0.067/0.073	1.70/1.85	0.142	0.064
	MS9967-038	2.594/2.634	65.89/ 66.90	0.067/0.073	1.70/1.85	0.150	0.068
	MS9967-039	2.719/2.759	69.06/ 70.08	0.067/0.073	1.70/1.85	0.156	0.071
	MS9967-040	2.844/2.884	72.24/ 73.25	0.067/0.073	1.70/1.85	0.163	0.074
	MS9967-041	2.965/3.013	75.31/ 76.53	0.067/0.073	1.70/1.85	0.170	0.077
	MS9967-042	3.215/3.263	81.66/ 82.88	0.067/0.073	1.70/1.85	0.184	0.084
	MS9967-043	3.465/3.513	88.01/ 89.23	0.067/0.073	1.70/1.85	0.199	0.090
	MS9967-044	3.712/3.766	94.29/ 95.66	0.067/0.073	1.70/1.85	0.212	0.096
	MS9967-045	3.962/4.016	100.64/102.01	0.067/0.073	1.70/1.85	0.226	0.103
	MS9967-046	4.209/4.269	106.91/108.43	0.067/0.073	1.70/1.85	0.240	0.109
	MS9967-047	4.459/4.519	113.26/114.78	0.067/0.073	1.70/1.85	0.254	0.115
	MS9967-048	4.709/4.769	119.61/121.13	0.067/0.073	1.70/1.85	0.267	0.121
	MS9967-049	4.952/5.026	125.78/127.66	0.067/0.073	1.70/1.85	0.282	0.128
	MS9967-050	5.202/5.276	132.13/134.01	0.067/0.073	1.70/1.85	0.295	0.134

Table 1 - Part numbers and dimensions (continued)

App Note	Part Number	ØID	ØID	ØW	ØW	Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
	MS9967-102	0.044/0.054	1.12/ 1.37	0.100/0.106	2.54/2.69	0.018	0.008
	MS9967-103	0.076/0.086	1.93/ 2.18	0.100/0.106	2.54/2.69	0.022	0.010
	MS9967-104	0.107/0.117	2.72/ 2.97	0.100/0.106	2.54/2.69	0.026	0.012
	MS9967-105	0.138/0.148	3.51/ 3.76	0.100/0.106	2.54/2.69	0.029	0.013
	MS9967-106	0.169/0.179	4.29/ 4.55	0.100/0.106	2.54/2.69	0.034	0.015
	MS9967-107	0.201 /0.211	5.11/ 5.36	0.100/0.106	2.54/2.69	0.037	0.017
	MS9967-108	0.232/0.242	5.89/ 6.15	0.100/0.106	2.54/2.69	0.041	0.019
	MS9967-109	0.294/0.304	7.47/ 7.72	0.100/0.106	2.54/2.69	0.048	0.022
	MS9967-110	0.357/0.367	9.07/ 9.32	0.100/0.106	2.54/2.69	0.056	0.025
	MS9967-111	0.419/0.429	10.64/10.90	0.100/0.106	2.54/2.69	0.064	0.029
	MS9967-112	0.482/0.492	12.24/12.50	0.100/0.106	2.54/2.69	0.071	0.032
	MS9967-113	0.542/0.556	13.77/14.12	0.100/0.106	2.54/2.69	0.079	0.036
	MS9967-114	0.603/0.621	15.32/15.77	0.100/0.106	2.54/2.69	0.086	0.039
	MS9967-115	0.665/0.683	16.89/17.35	0.100/0.106	2.54/2.69	0.093	0.042
	MS9967-116	0.728/0.746	18.49/18.95	0.100/0.106	2.54/2.69	0.101	0.046
	MS9967-117	0.789/0.809	20.04/20.55	0.100/0.106	2.54/2.69	0.109	0.049
	MS9967-118	0.852/0.872	21.64/22.15	0.100/0.106	2.54/2.69	0.116	0.053
	MS9967-119	0.914/0.934	23.22/23.72	0.100/0.106	2.54/2.69	0.124	0.056
	MS9967-120	0.977/0.997	24.82/25.32	0.100/0.106	2.54/2.69	0.131	0.059
	MS9967-121	1.039/1.059	26.39/26.90	0.100/0.106	2.54/2.69	0.139	0.063
	MS9967-122	1.102/1.122	27.99/28.50	0.100/0.106	2.54/2.69	0.146	0.066
	MS9967-123	1.162/1.186	29.52/30.12	0.100/0.106	2.54/2.69	0.154	0.070
	MS9967-124	1.225/1.249	31.12/31.73	0.100/0.106	2.54/2.69	0.162	0.074
	MS9967-125	1.287/1.311	32.69/33.30	0.100/0.106	2.54/2.69	0.169	0.077
	MS9967-126	1.350/1.374	34.29/34.90	0.100/0.106	2.54/2.69	0.176	0.080
	MS9967-127	1.412/1.436	35.87/36.47	0.100/0.106	2.54/2.69	0.184	0.084
	MS9967-128	1.475/1.499	37.47/38.08	0.100/0.106	2.54/2.69	0.191	0.087
	MS9967-129	1.534/1.564	38.96/39.73	0.100/0.106	2.54/2.69	0.199	0.090
	MS9967-130	1.597/1.627	40.56/41.33	0.100/0.106	2.54/2.69	0.207	0.094
	MS9967-131	1.659/1.689	42.14/42.90	0.100/0.106	2.54/2.69	0.214	0.097
	MS9967-132	1.722/1.752	43.74/44.50	0.100/0.106	2.54/2.69	0.222	0.101
	MS9967-133	1.784/1.814	45.31/46.08	0.100/0.106	2.54/2.69	0.229	0.104
	MS9967-134	1.847/1.877	46.91/47.68	0.100/0.106	2.54/2.69	0.236	0.107
	MS9967-135	1.908/1.942	48.46/49.33	0.100/0.106	2.54/2.69	0.244	0.111
	MS9967-136	1.970/2.004	50.04/50.90	0.100/0.106	2.54/2.69	0.252	0.114
(a)	MS9967-137	2.033/2.067	51.64/52.50	0.100/0.106	2.54/2.69	0.259	0.118
	MS9967-138	2.095/2.129	53.21/54.08	0.100/0.106	2.54/2.69	0.267	0.121
	MS9967-139	2.158/2.192	54.81/55.68	0.100/0.106	2.54/2.69	0.274	0.124
	MS9967-140	2.220/2.254	56.39/57.25	0.100/0.106	2.54/2.69	0.282	0.128
	MS9967-141	2.280/2.320	57.91/58.93	0.100/0.106	2.54/2.69	0.289	0.131
	MS9967-142	2.342/2.382	59.49/60.50	0.100/0.106	2.54/2.69	0.297	0.135
	MS9967-143	2.405/2.445	61.09/62.10	0.100/0.106	2.54/2.69	0.305	0.138
	MS9967-144	2.467/2.507	62.66/63.68	0.100/0.106	2.54/2.69	0.312	0.142
	MS9967-145	2.530/2.570	64.26/65.28	0.100/0.106	2.54/2.69	0.319	0.145
	MS9967-146	2.592/2.632	65.84/66.85	0.100/0.106	2.54/2.69	0.327	0.148
	MS9967-147	2.653/2.697	67.39/68.50	0.100/0.106	2.54/2.69	0.334	0.152
	MS9967-148	2.715/2.759	68.96/70.08	0.100/0.106	2.54/2.69	0.342	0.155
	MS9967-149	2.778/2.822	70.56/71.68	0.100/0.106	2.54/2.69	0.350	0.159
(b)	MS9967-150	2.840/2.884	72.14/73.25	0.100/0.106	2.54/2.69	0.357	0.162

Table 1 - Part numbers and dimensions (continued)

App Note	Part Number	ØID	ØID	ØW	ØW	Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
(b)	MS9967-151	2.963/3.011	75.26/ 76.48	0.100/0.106	2.54/2.69	0.372	0.169
	MS9967-152	3.213/3.261	81.61/ 82.83	0.100/0.106	2.54/2.69	0.402	0.183
	MS9967-153	3.463/3.511	87.96/ 89.18	0.100/0.106	2.54/2.69	0.432	0.196
	MS9967-154	3.709/3.765	94.21/ 95.63	0.100/0.106	2.54/2.69	0.462	0.210
	MS9967-155	3.959/4.015	100.56/101.98	0.100/0.106	2.54/2.69	0.493	0.224
	MS9967-156	4.207/4.267	106.86/108.38	0.100/0.106	2.54/2.69	0.523	0.237
	MS9967-157	4.457/4.517	113.21/114.73	0.100/0.106	2.54/2.69	0.553	0.251
	MS9967-158	4.707/4.767	119.56/121.08	0.100/0.106	2.54/2.69	0.583	0.265
	MS9967-159	4.952/5.022	125.78/127.56	0.100/0.106	2.54/2.69	0.613	0.278
	MS9967-160	5.202/5.272	132.13/133.91	0.100/0.106	2.54/2.69	0.643	0.292
	MS9967-161	5.452/5.522	138.48/140.26	0.100/0.106	2.54/2.69	0.673	0.306
	MS9967-162	5.702/5.772	144.83/146.61	0.100/0.106	2.54/2.69	0.703	0.319
	MS9967-163	5.952/6.022	151.18/152.96	0.100/0.106	2.54/2.69	0.733	0.333
	MS9967-164	6.197/6.277	157.40/159.44	0.100/0.106	2.54/2.69	0.764	0.347
	MS9967-165	6.447/6.527	163.75/165.79	0.100/0.106	2.54/2.69	0.794	0.360
	MS9967-166	6.697/6.777	170.10/172.14	0.100/0.106	2.54/2.69	0.823	0.374
	MS9967-167	6.947/7.027	176.45/178.49	0.100/0.106	2.54/2.69	0.854	0.388
	MS9967-168	7.192/7.282	182.68/184.96	0.100/0.106	2.54/2.69	0.884	0.401
	MS9967-169	7.442/7.532	189.03/191.31	0.100/0.106	2.54/2.69	0.914	0.415
	MS9967-170	7.692/7.782	195.38/197.66	0.100/0.106	2.54/2.69	0.944	0.429
	MS9967-171	7.942/8.032	201.73/204.01	0.100/0.106	2.54/2.69	0.974	0.442
	MS9967-172	8.187/8.287	207.95/210.49	0.100/0.106	2.54/2.69	1.004	0.456
	MS9967-173	8.437/8.537	214.30/216.84	0.100/0.106	2.54/2.69	1.035	0.470
	MS9967-174	8.687/8.787	220.65/223.19	0.100/0.106	2.54/2.69	1.064	0.483
	MS9967-175	8.937/9.037	227.00/229.54	0.100/0.106	2.54/2.69	1.094	0.497
	MS9967-176	9.182/9.292	233.22/236.02	0.100/0.106	2.54/2.69	1.125	0.511
	MS9967-177	9.432/9.542	239.57/242.37	0.100/0.106	2.54/2.69	1.155	0.524
	MS9967-178	9.682/9.792	245.92/248.72	0.100/0.106	2.54/2.69	1.185	0.538
	MS9967-201	0.166/0.176	4.22/ 4.47	0.135/0.143	3.43/3.63	0.068	0.031
	MS9967-202	0.229/0.239	5.82/ 6.07	0.135/0.143	3.43/3.63	0.082	0.037
	MS9967-203	0.291/0.301	7.39/ 7.65	0.135/0.143	3.43/3.63	0.095	0.043
	MS9967-204	0.354/0.364	8.99/ 9.25	0.135/0.143	3.43/3.63	0.109	0.049
	MS9967-205	0.416/0.426	10.57/ 10.82	0.135/0.143	3.43/3.63	0.123	0.056
	MS9967-206	0.479/0.489	12.17/ 12.42	0.135/0.143	3.43/3.63	0.137	0.062
	MS9967-207	0.539/0.553	13.69/ 14.05	0.135/0.143	3.43/3.63	0.150	0.068
MS9967-208	0.600/0.618	15.24/ 15.70	0.135/0.143	3.43/3.63	0.164	0.074	
MS9967-209	0.662/0.680	16.81/ 17.27	0.135/0.143	3.43/3.63	0.178	0.081	
MS9967-210	0.724/0.744	18.39/ 18.90	0.135/0.143	3.43/3.63	0.191	0.087	
MS9967-211	0.786/0.806	19.96/ 20.47	0.135/0.143	3.43/3.63	0.205	0.093	
MS9967-212	0.849/0.869	21.56/ 22.07	0.135/0.143	3.43/3.63	0.219	0.099	
MS9967-213	0.911/0.931	23.14/ 23.65	0.135/0.143	3.43/3.63	0.232	0.105	
MS9967-214	0.974/0.994	24.74/ 25.25	0.135/0.143	3.43/3.63	0.246	0.112	
MS9967-215	1.036/1.056	26.31/ 26.82	0.135/0.143	3.43/3.63	0.260	0.118	
MS9967-216	1.097/1.121	27.86/ 28.47	0.135/0.143	3.43/3.63	0.274	0.124	
MS9967-217	1.159/1.183	29.44/ 30.05	0.135/0.143	3.43/3.63	0.288	0.131	
MS9967-218	1.222/1.246	31.04/ 31.65	0.135/0.143	3.43/3.63	0.301	0.137	
MS9967-219	1.284/1.308	32.61/ 33.22	0.135/0.143	3.43/3.63	0.315	0.143	
MS9967-220	1.347/1.371	34.21/ 34.82	0.135/0.143	3.43/3.63	0.328	0.149	

Table 1 - Part numbers and dimensions (continued)

App Note	Part Number	ØID	ØID	ØW	ØW	Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
	MS9967-221	1.409/1.433	35.79/ 36.40	0.135/0.143	3.43/3.63	0.342	0.155
	MS9967-222	1.469/1.499	37.31/ 38.08	0.135/0.143	3.43/3.63	0.356	0.162
	MS9967-223	1.594/1.624	40.49/ 41.25	0.135/0.143	3.43/3.63	0.383	0.174
	MS9967-224	1.719/1.749	43.66/ 44.42	0.135/0.143	3.43/3.63	0.411	0.187
	MS9967-225	1.841/1.877	46.76/ 47.68	0.135/0.143	3.43/3.63	0.438	0.199
	MS9967-226	1.966/2.002	49.94/ 50.85	0.135/0.143	3.43/3.63	0.466	0.212
	MS9967-227	2.091/2.127	53.11/ 54.03	0.135/0.143	3.43/3.63	0.493	0.224
	MS9967-228	2.214/2.254	56.24/ 57.25	0.135/0.143	3.43/3.63	0.502	0.228
	MS9967-229	2.339/2.379	59.41/ 60.43	0.135/0.143	3.43/3.63	0.548	0.249
	MS9967-230	2.464/2.504	62.59/ 63.60	0.135/0.143	3.43/3.63	0.575	0.261
	MS9967-231	2.589/2.629	65.76/ 66.78	0.135/0.143	3.43/3.63	0.603	0.274
	MS9967-232	2.710/2.758	68.83/ 70.05	0.135/0.143	3.43/3.63	0.630	0.286
	MS9967-233	2.835/2.883	72.01/ 73.23	0.135/0.143	3.43/3.63	0.658	0.299
(a)	MS9967-234	2.960/3.008	75.18/ 76.40	0.135/0.143	3.43/3.63	0.685	0.311
	MS9967-235	3.085/3.133	78.36/ 79.58	0.135/0.143	3.43/3.63	0.712	0.323
	MS9967-236	3.210/3.258	81.53/ 82.75	0.135/0.143	3.43/3.63	0.740	0.336
	MS9967-237	3.335/3.383	84.71/ 85.93	0.135/0.143	3.43/3.63	0.767	0.348
	MS9967-238	3.460/3.508	87.88/ 89.10	0.135/0.143	3.43/3.63	0.794	0.360
	MS9967-239	3.581/3.637	90.96/ 92.38	0.135/0.143	3.43/3.63	0.822	0.373
	MS9967-240	3.706/3.762	94.13/ 95.56	0.135/0.143	3.43/3.63	0.849	0.385
	MS9967-241	3.831/3.887	97.31/ 98.73	0.135/0.143	3.43/3.63	0.877	0.398
	MS9967-242	3.956/4.012	100.48/101.91	0.135/0.143	3.43/3.63	0.904	0.410
	MS9967-243	4.081/4.137	103.66/105.08	0.135/0.143	3.43/3.63	0.932	0.423
	MS9967-244	4.204/4.264	106.78/108.31	0.135/0.143	3.43/3.63	0.959	0.435
	MS9967-245	4.329/4.389	109.96/111.48	0.135/0.143	3.43/3.63	0.986	0.448
	MS9967-246	4.454/4.514	113.13/114.66	0.135/0.143	3.43/3.63	1.014	0.460
	MS9967-247	4.579/4.639	116.31/117.83	0.135/0.143	3.43/3.63	1.041	0.473
	MS9967-248	4.704/4.764	119.48/121.01	0.135/0.143	3.43/3.63	1.069	0.485
	MS9967-249	4.824/4.894	122.53/124.31	0.135/0.143	3.43/3.63	1.096	0.498
	MS9967-250	4.949/5.019	125.71/127.48	0.135/0.143	3.43/3.63	1.123	0.510
	MS9967-251	5.074/5.144	128.88/130.66	0.135/0.143	3.43/3.63	1.151	0.523
	MS9967-252	5.199/5.269	132.06/133.83	0.135/0.143	3.43/3.63	1.178	0.535
	MS9967-253	5.324/5.394	135.23/137.01	0.135/0.143	3.43/3.63	1.206	0.548
	MS9967-254	5.449/5.519	138.41/140.18	0.135/0.143	3.43/3.63	1.233	0.560
	MS9967-255	5.574/5.644	141.58/143.36	0.135/0.143	3.43/3.63	1.260	0.572
	MS9967-256	5.699/5.769	144.76/146.53	0.135/0.143	3.43/3.63	1.288	0.585
	MS9967-257	5.824/5.894	147.93/149.71	0.135/0.143	3.43/3.63	1.315	0.597
	MS9967-258	5.949/6.019	151.11/152.88	0.135/0.143	3.43/3.63	1.343	0.610
	MS9967-259	6.194/6.274	157.33/159.36	0.135/0.143	3.43/3.63	1.398	0.635
(b)	MS9967-260	6.444/6.524	163.68/165.71	0.135/0.143	3.43/3.63	1.452	0.659
	MS9967-261	6.694/6.774	170.03/172.06	0.135/0.143	3.43/3.63	1.507	0.684
	MS9967-262	6.944/7.024	176.38/178.41	0.135/0.143	3.43/3.63	1.562	0.709
	MS9967-263	7.189/7.279	182.60/184.89	0.135/0.143	3.43/3.63	1.617	0.734
	MS9967-264	7.439/7.529	188.95/191.24	0.135/0.143	3.43/3.63	1.672	0.759
	MS9967-265	7.689/7.779	195.30/197.59	0.135/0.143	3.43/3.63	1.726	0.784
	MS9967-266	7.939/8.029	201.65/203.94	0.135/0.143	3.43/3.63	1.781	0.809
	MS9967-267	8.184/8.284	207.87/210.41	0.135/0.143	3.43/3.63	1.836	0.834
	MS9967-268	8.434/8.534	214.22/216.76	0.135/0.143	3.43/3.63	1.891	0.859
	MS9967-269	8.684/8.784	220.57/223.11	0.135/0.143	3.43/3.63	1.946	0.883
	MS9967-270	8.934/9.034	226.92/229.46	0.135/0.143	3.43/3.63	2.001	0.908

Table 1 - Part numbers and dimensions (continued)

App Note	Part Number	ØID	ØID	ØW	ØW	Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
(b)	MS9967-271	9.179/ 9.289	233.15/235.94	0.135/0.143	3.43/3.63	2.055	0.933
	MS9967-272	9.429/ 9.539	239.50/242.29	0.135/0.143	3.43/3.63	2.111	0.958
	MS9967-273	9.679/ 9.789	245.85/248.64	0.135/0.143	3.43/3.63	2.165	0.983
	MS9967-274	9.929/10.039	252.20/254.99	0.135/0.143	3.43/3.63	2.220	1.008
	MS9967-275	10.429/10.539	264.90/267.69	0.135/0.143	3.43/3.63	2.329	1.057
	MS9967-276	10.919/11.049	277.34/280.65	0.135/0.143	3.43/3.63	2.439	1.107
	MS9967-277	11.419/11.549	290.04/293.35	0.135/0.143	3.43/3.63	2.549	1.157
	MS9967-278	11.919/12.049	302.74/306.05	0.135/0.143	3.43/3.63	2.658	1.207
	MS9967-279	12.919/13.049	328.14/331.45	0.135/0.143	3.43/3.63	2.878	1.307
	MS9967-280	13.919/14.049	353.54/356.85	0.135/0.143	3.43/3.63	3.097	1.406
	MS9967-281	14.919/15.049	378.94/382.25	0.135/0.143	3.43/3.63	3.317	1.506
	MS9967-282	15.880/16.030	403.35/407.16	0.135/0.143	3.43/3.63	3.539	1.607
	MS9967-283	16.875/17.035	428.63/432.69	0.135/0.143	3.43/3.63	3.749	1.702
	MS9967-284	17.870/18.040	453.90/458.22	0.135/0.143	3.43/3.63	3.968	1.801
	MS9967-309	0.407/0.417	10.34/ 10.59	0.205/0.215	5.21/5.46	0.311	0.141
	MS9967-310	0.470/0.480	11.94/ 12.19	0.205/0.215	5.21/5.46	0.343	0.156
	MS9967-311	0.530/0.544	13.46/ 13.82	0.205/0.215	5.21/5.46	0.374	0.170
	MS9967-312	0.591/0.609	15.01/ 15.47	0.205/0.215	5.21/5.46	0.405	0.184
	MS9967-313	0.653/0.671	16.59/ 17.04	0.205/0.215	5.21/5.46	0.437	0.198
	MS9967-314	0.715/0.735	18.16/ 18.67	0.205/0.215	5.21/5.46	0.468	0.212
	MS9967-315	0.777/0.797	19.74/ 20.24	0.205/0.215	5.21/5.46	0.499	0.227
	MS9967-316	0.840/0.860	21.34/ 21.84	0.205/0.215	5.21/5.46	0.530	0.241
	MS9967-317	0.902/0.922	22.91/ 23.42	0.205/0.215	5.21/5.46	0.562	0.255
	MS9967-318	0.965/0.985	24.51/ 25.02	0.205/0.215	5.21/5.46	0.593	0.269
MS9967-319	1.027/1.047	26.09/ 26.59	0.205/0.215	5.21/5.46	0.624	0.283	
MS9967-320	1.088/1.112	27.64/ 28.25	0.205/0.215	5.21/5.46	0.656	0.298	
MS9967-321	1.150/1.174	29.21/ 29.82	0.205/0.215	5.21/5.46	0.687	0.312	
MS9967-322	1.213/1.237	30.81/ 31.42	0.205/0.215	5.21/5.46	0.718	0.326	
MS9967-323	1.275/1.299	32.39/ 33.00	0.205/0.215	5.21/5.46	0.749	0.340	
MS9967-324	1.338/1.362	33.99/ 34.60	0.205/0.215	5.21/5.46	0.781	0.355	
MS9967-325	1.460/1.490	37.08/ 37.85	0.205/0.215	5.21/5.46	0.843	0.383	
MS9967-326	1.585/1.615	40.26/ 41.02	0.205/0.215	5.21/5.46	0.906	0.411	
MS9967-327	1.710/1.740	43.43/ 44.20	0.205/0.215	5.21/5.46	0.969	0.440	
MS9967-328	1.835/1.865	46.61/ 47.37	0.205/0.215	5.21/5.46	1.031	0.468	
MS9967-329	1.957/1.993	49.71/ 50.62	0.205/0.215	5.21/5.46	1.094	0.497	
MS9967-330	2.082/2.118	52.88/ 53.80	0.205/0.215	5.21/5.46	1.156	0.525	
MS9967-331	2.207/2.243	56.06/ 56.97	0.205/0.215	5.21/5.46	1.219	0.553	
MS9967-332	2.332/2.368	59.23/ 60.15	0.205/0.215	5.21/5.46	1.282	0.582	
MS9967-333	2.455/2.495	62.36/ 63.37	0.205/0.215	5.21/5.46	1.344	0.610	
MS9967-334	2.580/2.620	65.53/ 66.55	0.205/0.215	5.21/5.46	1.407	0.639	
MS9967-335	2.705/2.745	68.71/ 69.72	0.205/0.215	5.21/5.46	1.469	0.667	
MS9967-336	2.830/2.870	71.88/ 72.90	0.205/0.215	5.21/5.46	1.532	0.696	
MS9967-337	2.951/2.999	74.96/ 76.18	0.205/0.215	5.21/5.46	1.594	0.724	
MS9967-338	3.076/3.124	78.13/ 79.35	0.205/0.215	5.21/5.46	1.657	0.752	
MS9967-339	3.201/3.249	81.31/ 82.53	0.205/0.215	5.21/5.46	1.720	0.781	
MS9967-340	3.326/3.374	84.48/ 85.70	0.205/0.215	5.21/5.46	1.782	0.809	

Table 1 - Part numbers and dimensions (continued)

App Note	Part Number	ØID	ØID	ØW	ØW	Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
	MS9967-341	3.451/ 3.499	87.66/ 88.88	0.205/0.215	5.21/5.46	1.845	0.838
	MS9967-342	3.572/ 3.628	90.73/ 92.15	0.205/0.215	5.21/5.46	1.907	0.866
	MS9967-343	3.697/ 3.753	93.90/ 95.33	0.205/0.215	5.21/5.46	1.970	0.894
	MS9967-344	3.822/ 3.878	97.08/ 98.50	0.205/0.215	5.21/5.46	2.032	0.923
	MS9967-345	3.947/ 4.003	100.25/101.68	0.205/0.215	5.21/5.46	2.095	0.951
	MS9967-346	4.072/ 4.128	103.43/104.85	0.205/0.215	5.21/5.46	2.157	0.979
	MS9967-347	4.195/ 4.255	106.55/108.08	0.205/0.215	5.21/5.46	2.220	1.008
	MS9967-348	4.320/ 4.380	109.73/111.25	0.205/0.215	5.21/5.46	2.283	1.036
	MS9967-349	4.445/ 4.505	112.90/114.43	0.205/0.215	5.21/5.46	2.345	1.065
	MS9967-350	4.570/ 4.630	116.08/117.60	0.205/0.215	5.21/5.46	2.408	1.093
	MS9967-351	4.695/ 4.755	119.25/120.78	0.205/0.215	5.21/5.46	2.470	1.121
	MS9967-352	4.820/ 4.880	122.43/123.95	0.205/0.215	5.21/5.46	2.533	1.150
	MS9967-353	4.938/ 5.012	125.43/127.31	0.205/0.215	5.21/5.46	2.595	1.178
	MS9967-354	5.063/ 5.137	128.60/130.48	0.205/0.215	5.21/5.46	2.658	1.207
	MS9967-355	5.188/ 5.262	131.78/133.66	0.205/0.215	5.21/5.46	2.720	1.235
	MS9967-356	5.313/ 5.387	134.95/136.83	0.205/0.215	5.21/5.46	2.783	1.263
	MS9967-357	5.438/ 5.512	138.13/140.01	0.205/0.215	5.21/5.46	2.846	1.292
	MS9967-358	5.563/ 5.637	141.30/143.18	0.205/0.215	5.21/5.46	2.908	1.320
	MS9967-359	5.688/ 5.762	144.48/146.36	0.205/0.215	5.21/5.46	2.971	1.349
	MS9967-360	5.813/ 5.887	147.65/149.53	0.205/0.215	5.21/5.46	3.033	1.377
	MS9967-361	5.938/ 6.012	150.83/152.71	0.205/0.215	5.21/5.46	3.096	1.406
	MS9967-362	6.185/ 6.265	157.10/159.13	0.205/0.215	5.21/5.46	3.221	1.462
(b)	MS9967-363	6.435/ 6.515	163.45/165.48	0.205/0.215	5.21/5.46	3.346	1.519
	MS9967-364	6.685/ 6.765	169.80/171.83	0.205/0.215	5.21/5.46	3.471	1.576
	MS9967-365	6.935/ 7.015	176.15/178.18	0.205/0.215	5.21/5.46	3.596	1.633
	MS9967-366	7.180/ 7.270	182.37/184.66	0.205/0.215	5.21/5.46	3.721	1.689
	MS9967-367	7.430/ 7.520	188.72/191.01	0.205/0.215	5.21/5.46	3.847	1.747
	MS9967-368	7.680/ 7.770	195.07/197.36	0.205/0.215	5.21/5.46	3.972	1.803
	MS9967-369	7.930/ 8.020	201.42/203.71	0.205/0.215	5.21/5.46	4.010	1.821
	MS9967-370	8.175/ 8.275	207.65/210.19	0.205/0.215	5.21/5.46	4.222	1.917
	MS9967-371	8.425/ 8.525	214.00/216.54	0.205/0.215	5.21/5.46	4.347	1.974
	MS9967-372	8.675/ 8.775	220.35/222.89	0.205/0.215	5.21/5.46	4.472	2.030
	MS9967-373	8.925/ 9.025	226.70/229.24	0.205/0.215	5.21/5.46	4.600	2.088
	MS9967-374	9.170/ 9.280	232.94/235.71	0.205/0.215	5.21/5.46	4.722	2.144
	MS9967-375	9.420/ 9.530	239.27/242.06	0.205/0.215	5.21/5.46	4.848	2.201
	MS9967-376	9.670/ 9.780	245.67/248.41	0.205/0.215	5.21/5.46	4.973	2.258
	MS9967-377	9.920/10.030	251.97/254.76	0.205/0.215	5.21/5.46	5.098	2.314
	MS9967-378	10.415/10.535	264.54/267.59	0.205/0.215	5.21/5.46	5.348	2.428
	MS9967-379	10.915/11.035	277.24/280.29	0.205/0.215	5.21/5.46	5.599	2.542
	MS9967-380	11.410/11.540	289.81/293.12	0.205/0.215	5.21/5.46	5.849	2.655
	MS9967-381	11.910/12.040	302.51/305.82	0.205/0.215	5.21/5.46	6.099	2.769
	MS9967-382	12.910/13.040	327.91/331.22	0.205/0.215	5.21/5.46	6.600	2.996
	MS9967-383	13.905/14.045	353.19/356.74	0.205/0.215	5.21/5.46	7.100	3.223
	MS9967-384	14.905/15.045	378.59/382.14	0.205/0.215	5.21/5.46	7.601	3.451
	MS9967-385	15.880/16.030	403.35/407.16	0.205/0.215	5.21/5.46	8.091	3.673

Table 1 - Part numbers and dimensions (continued)

App Note	Part Number	ØID	ØID	ØW	ØW	Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
(b)	MS9967-386	16.875/17.035	428.63/432.69	0.205/0.215	5.21/5.46	8.592	3.901
	MS9967-387	17.870/18.040	453.90/458.22	0.205/0.215	5.21/5.46	9.092	4.128
	MS9967-388	18.865/19.045	479.17/483.74	0.205/0.215	5.21/5.46	9.592	4.355
	MS9967-389	19.860/20.050	504.44/509.27	0.205/0.215	5.21/5.46	10.093	4.582
	MS9967-390	20.860/21.050	529.84/534.67	0.205/0.215	5.21/5.46	10.594	4.810
	MS9967-391	21.855/22.055	555.12/560.20	0.205/0.215	5.21/5.46	11.094	5.037
	MS9967-392	22.835/23.045	580.01/585.34	0.205/0.215	5.21/5.46	11.587	5.260
	MS9967-393	23.830/24.050	605.28/610.87	0.205/0.215	5.21/5.46	12.088	5.488
	MS9967-394	24.825/25.055	630.56/636.40	0.205/0.215	5.21/5.46	12.588	5.715
	MS9967-395	25.820/26.060	655.83/661.92	0.205/0.215	5.21/5.46	13.089	5.942
	MS9967-425	4.442/ 4.508	112.83/114.50	0.269/0.281	6.83/7.14	4.077	1.851
	MS9967-426	4.567/ 4.633	116.00/117.68	0.269/0.281	6.83/7.14	4.185	1.900
	MS9967-427	4.692/ 4.758	119.18/120.85	0.269/0.281	6.83/7.14	4.292	1.949
	MS9967-428	4.817/ 4.883	122.35/124.03	0.269/0.281	6.83/7.14	4.399	1.997
	MS9967-429	4.938/ 5.012	125.43/127.31	0.269/0.281	6.83/7.14	4.506	2.046
	MS9967-430	5.063/ 5.137	128.60/130.48	0.269/0.281	6.83/7.14	4.614	2.095
	MS9967-431	5.188/ 5.262	131.78/133.66	0.269/0.281	6.83/7.14	4.721	2.143
	MS9967-432	5.313/ 5.387	134.95/136.83	0.269/0.281	6.83/7.14	4.828	2.192
	MS9967-433	5.438/ 5.512	138.13/140.01	0.269/0.281	6.83/7.14	4.935	2.240
	MS9967-434	5.563/ 5.637	141.30/143.18	0.269/0.281	6.83/7.14	5.043	2.290
	MS9967-435	5.688/ 5.762	144.48/146.36	0.269/0.281	6.83/7.14	5.150	2.338
	MS9967-436	5.813/ 5.887	147.65/149.53	0.269/0.281	6.83/7.14	5.257	2.387
	MS9967-437	5.938/ 6.012	150.83/152.71	0.269/0.281	6.83/7.14	5.365	2.436
	MS9967-438	6.185/ 6.265	157.10/159.13	0.269/0.281	6.83/7.14	5.579	2.533
	MS9967-439	6.435/ 6.515	163.45/165.48	0.269/0.281	6.83/7.14	5.794	2.630
	MS9967-440	6.685/ 6.765	169.80/171.83	0.269/0.281	6.83/7.14	6.009	2.728
	MS9967-441	6.935/ 7.015	176.15/178.18	0.269/0.281	6.83/7.14	6.223	2.825
	MS9967-442	7.180/ 7.270	182.37/184.66	0.269/0.281	6.83/7.14	6.438	2.923
	MS9967-443	7.430/ 7.520	188.72/191.01	0.269/0.281	6.83/7.14	6.652	3.020
	MS9967-444	7.680/ 7.770	195.07/197.36	0.269/0.281	6.83/7.14	6.867	3.118
	MS9967-445	7.930/ 8.020	201.42/203.71	0.269/0.281	6.83/7.137	7.081	3.215
	MS9967-446	8.420/ 8.530	213.87/216.66	0.269/0.281	6.83/7.14	7.510	3.410
	MS9967-447	8.920/ 9.030	226.57/229.36	0.269/0.281	6.83/7.14	7.940	3.605
	MS9967-448	9.420/ 9.530	239.27/242.06	0.269/0.281	6.83/7.14	8.369	3.800
	MS9967-449	9.920/10.030	251.97/254.76	0.269/0.281	6.83/7.14	8.798	3.994
	MS9967-450	10.415/10.535	264.54/267.59	0.269/0.281	6.83/7.14	9.227	4.189
	MS9967-451	10.915/11.035	277.24/280.29	0.269/0.281	6.83/7.14	9.656	4.384
	MS9967-452	11.415/11.535	289.94/292.99	0.269/0.281	6.83/7.14	10.086	4.579
	MS9967-453	11.915/12.035	302.64/305.69	0.269/0.281	6.83/7.14	10.515	4.774
	MS9967-454	12.415/12.535	315.34/318.39	0.269/0.281	6.83/7.14	10.944	4.969
MS9967-455	12.915/13.035	328.04/331.09	0.269/0.281	6.83/7.14	11.373	5.163	
MS9967-456	13.405/13.545	340.49/344.04	0.269/0.281	6.83/7.14	11.802	5.358	
MS9967-457	13.905/14.045	353.19/356.74	0.269/0.281	6.83/7.14	12.231	5.553	
MS9967-458	14.405/14.545	365.89/369.44	0.269/0.281	6.83/7.14	12.661	5.748	
MS9967-459	14.905/15.045	378.59/382.14	0.269/0.281	6.83/7.14	13.090	5.943	
MS9967-460	15.405/15.545	391.29/394.84	0.269/0.281	6.83/7.14	13.520	6.138	
(b)	MS9967-461	15.880/16.030	403.35/407.16	0.269/0.281	6.83/7.14	13.931	6.325
	MS9967-462	16.380/16.530	416.05/419.86	0.269/0.281	6.83/7.14	14.360	6.519
	MS9967-463	16.875/17.035	428.63/432.69	0.269/0.281	6.83/7.14	14.790	6.715
	MS9967-464	17.370/17.540	441.20/445.52	0.269/0.281	6.83/7.14	15.219	6.909
	MS9967-465	17.870/18.040	453.90/458.22	0.269/0.281	6.83/7.14	15.648	7.104

**Table 1 - Part numbers and dimensions (continued)**

App Note	Part Number	ØID		ØW		Approx Mass	
		Inches	mm	Inches	mm	LB/100	KG/100
(b)	MS9967-466	18.370/18.540	466.60/470.92	0.269/0.281	6.83/7.14	16.077	7.299
	MS9967-467	18.865/19.045	479.17/483.74	0.269/0.281	6.83/7.14	16.506	7.494
	MS9967-468	19.365/19.545	491.87/496.44	0.269/0.281	6.83/7.14	16.935	7.688
	MS9967-469	19.860/20.050	504.44/509.27	0.269/0.281	6.83/7.14	17.365	7.884
	MS9967-470	20.860/21.050	529.84/534.67	0.269/0.281	6.83/7.14	18.223	8.273
	MS9967-471	21.855/22.055	555.13/560.20	0.269/0.281	6.83/7.14	19.081	8.663
	MS9967-472	22.835/23.045	580.01/585.34	0.269/0.281	6.83/7.14	19.927	9.047
	MS9967-473	23.830/24.050	605.28/610.87	0.269/0.281	6.83/7.14	20.785	9.436
	MS9967-474	24.825/25.055	630.56/636.40	0.269/0.281	6.83/7.14	21.643	9.826
MS9967-475	25.820/26.060	655.83/661.92	0.269/0.281	6.83/7.14	22.501	10.215	

**Table 2 - Boss O-rings sizes for MS33649 ports**

Part Number	Nominal Tube Outside Diameter		ØID		ØW		Approx Mass	
	Inches	mm	Inches	mm	Inches	mm	LB/100	KG/100
MS9966-01	0.094	2.39	0.180/0.190	4.57/ 4.83	0.053/0.059	1.35/1.50	0.009	0.004
MS9966-02	0.125	3.18	0.234/0.244	5.94/ 6.20	0.061/0.067	1.55/1.70	0.014	0.006
MS9966-03	0.188	4.78	0.295/0.306	7.49/ 7.77	0.061/0.067	1.55/1.70	0.017	0.008
MS9966-04	0.250	6.35	0.346/0.356	8.79/ 9.04	0.069/0.075	1.75/1.91	0.025	0.011
MS9966-05	0.312	7.93	0.409/0.419	10.39/10.64	0.069/0.075	1.75/1.91	0.029	0.013
MS9966-06	0.375	9.53	0.463/0.473	11.76/12.01	0.075 /0.081	1.91/2.06	0.038	0.017
MS9966-07	0.438	11.13	0.523/0.537	13.28/13.64	0.079/0.085	2.01/2.16	0.047	0.021
MS9966-08	0.500	12.70	0.635/0.653	16.13/16.59	0.084/0.090	2.13/2.29	0.063	0.029
MS9966-09	0.562	14.28	0.697/0.715	17.70/18.16	0.094/0.100	2.39/2.54	0.086	0.039
MS9966-10	0.625	15.88	0.746/0.764	18.95/19.41	0.094/0.100	2.39/2.54	0.091	0.041
MS9966-11	0.688	17.48	0.854/0.872	21.69/22.15	0.112/0.120	2.85/3.05	0.150	0.068
MS9966-12	0.750	19.05	0.915/0.933	23.24/23.70	0.112/0.120	2.85/3.05	0.159	0.072
MS9966-13	0.812	20.63	0.976/0.996	24.79/25.30	0.112/0.120	2.85/3.05	0.168	0.076
MS9966-14	0.875	22.23	1.037/1.057	26.34/26.85	0.112/0.120	2.85/3.05	0.178	0.081
MS9966-16	1.000	25.40	1.161/1.181	29.49/30.00	0.112/0.120	2.85/3.05	0.196	0.089
MS9966-18	1.125	28.58	1.343/1.367	34.11/34.72	0.112/0.120	2.85/3.05	0.225	0.102
MS9966-20	1.250	31.75	1.461/1.489	37.11/37.82	0.114/0.122	2.90/3.10	0.252	0.114
MS9966-24	1.500	38.10	1.706/1.734	43.33/44.04	0.114/0.122	2.90/3.10	0.290	0.132
MS9966-28	1.750	44.45	2.072/2.108	52.63/53.54	0.114/0.122	2.90/3.10	0.349	0.158
MS9966-32	2.000	50.80	2.319/2.356	58.90/59.84	0.114/0.122	2.90/3.10	0.388	0.176

**Table 3 - O-rings seals**

AS1300 Port Dash No.	O-Ring Dash No.
-02	-007
-03	-008
-04	-010
-05	-011
-06	-012
-08	-014
-10	-016
-12	-116
-14	-118
-16	-120
-20	-123
-24	-128
-32	-137

## 1. SCOPE

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

### 1.1 APPLICATION

These O-rings have been typically used from -67 to +347 °F (-55 to +175 °C) in fuels and from -67 to +302 °F (-55 to +150 °C) in lubricating oils. These O-rings are not recommended for use in most synthetic turbine lubricants, particularly high temperature stabilized, "HTS" engine oils. These O-rings may not be suitable for use in high temperature stabilized, "HTS" engine oils (those conforming to MIL-PRF-23699, Class HTS), MIL-PRF-7808, Grade 4 and AS5780 (Class HPC). Each application should be considered separately.

- (a) O-ring sizes -013 through -028, -117 through -149, and -223 through -247 are intended only for use as static seals and are not to be used in applications with reciprocating or rotary involvement. This is due to the possibility of spiral failure occurring in these smaller cross-section-larger diameter O-ring sizes.
- (b) O-ring sizes -029 through -050, -150 through -178, -248 through -284, -350 through -395, and -461 through -475 are not supported by AS4716 and are intended for nonstandard applications. They are intended only for use as static seals.

## 2. APPLICABLE DOCUMENTS

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 International, 400 Commonwealth Drive, Warrendale, PA 15086-7511, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

AMS2817	Packaging and Identification Preformed Packings
AMS7273	Rings, Sealing, Fluorosilicone (FVMQ) Rubber High Temperature Fuel and Oil Resistant 70 - 80
AS4716	Gland Design, O-Ring and Other Elastomeric Seals