

AEROSPACE STANDARD

AS9386™

REV. B

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Superseding MS9386A

O-Ring Molded from AMS7267 Silicone (VMQ) Rubber

RATIONALE

The part number prefix has been changed from AS to MS to avoid negative impact on some companies.

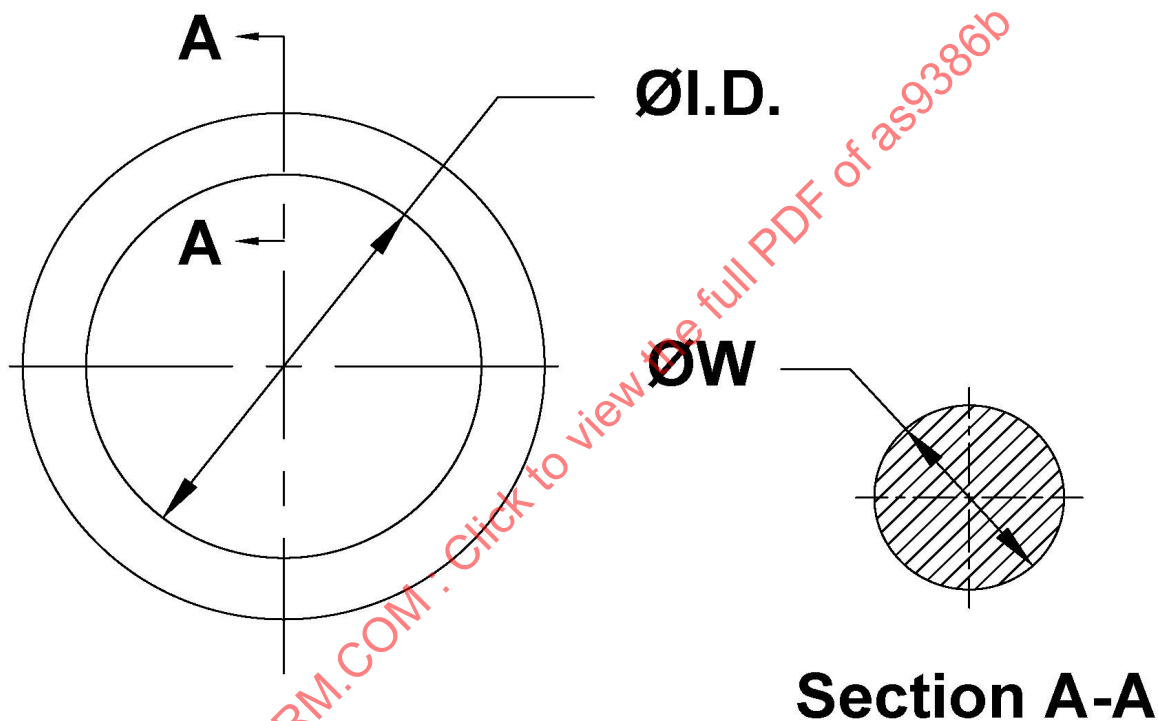


Figure 1 - O-ring dimensions - width (ØW) and inside diameter (ØID)

NOTE: Dimensions and tolerancing per ASME Y14.5.

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Table 1 - Part numbers and dimensions

App Note	Part Number	ØID	ØID	ØW	ØW	Approx Mass	
		Inches	mm	Inches	mm	lb/100	kg/100
	MS9386-001	0.025/0.033	0.64/ 0.84	0.037/0.043	0.94/1.09	0.0015	0.0007
	MS9386-002	0.038/0.046	0.97/ 1.17	0.047/0.053	1.19/1.35	0.003	0.0014
	MS9386-003	0.052/0.060	1.32/ 1.52	0.057/0.063	1.45/1.60	0.005	0.0018
	MS9386-004	0.065/0.075	1.65/ 1.91	0.067/0.073	1.70/1.85	0.008	0.0036
	MS9386-005	0.096/0.106	2.44/ 2.69	0.067/0.073	1.70/1.85	0.010	0.0045
	MS9386-006	0.109/0.119	2.77/ 3.02	0.067/0.073	1.70/1.85	0.011	0.0054
	MS9386-007	0.140/0.150	3.56/ 3.81	0.067/0.073	1.70/1.85	0.013	0.0059
	MS9386-008	0.171/0.181	4.34/ 4.60	0.067/0.073	1.70/1.85	0.015	0.0068
	MS9386-009	0.203/0.213	5.16/ 5.41	0.067/0.073	1.70/1.85	0.017	0.0077
	MS9386-010	0.234/0.244	5.94/ 6.20	0.067/0.073	1.70/1.85	0.018	0.0082
(a)	MS9386-011	0.296/0.306	7.52/ 7.77	0.067/0.073	1.70/1.85	0.022	0.010
	MS9386-012	0.359/0.369	9.12/ 9.37	0.067/0.073	1.70/1.85	0.025	0.011
	MS9386-013	0.421/0.431	10.69/ 10.95	0.067/0.073	1.70/1.85	0.029	0.013
	MS9386-014	0.484/0.494	12.29/ 12.55	0.067/0.073	1.70/1.85	0.033	0.015
	MS9386-015	0.544/0.558	13.82/ 14.17	0.067/0.073	1.70/1.85	0.037	0.017
	MS9386-016	0.605/0.623	15.37/ 15.82	0.067/0.073	1.70/1.85	0.040	0.018
	MS9386-017	0.667/0.685	16.94/ 17.40	0.067/0.073	1.70/1.85	0.044	0.020
	MS9386-018	0.730/0.748	18.54/ 19.00	0.067/0.073	1.70/1.85	0.048	0.022
	MS9386-019	0.792/0.810	20.12/ 20.57	0.067/0.073	1.70/1.85	0.051	0.023
	MS9386-020	0.855/0.873	21.72/ 22.17	0.067/0.073	1.70/1.85	0.055	0.025
(b)							
	MS9386-021	0.917/0.935	23.29/ 23.75	0.067/0.073	1.70/1.85	0.059	0.027
	MS9386-022	0.979/0.999	24.87/ 25.37	0.067/0.073	1.70/1.85	0.062	0.028
	MS9386-023	1.041/1.061	26.44/ 26.95	0.067/0.073	1.70/1.85	0.066	0.030
	MS9386-024	1.104/1.124	28.04/ 28.55	0.067/0.073	1.70/1.85	0.070	0.032
	MS9386-025	1.165/1.187	29.59/ 30.15	0.067/0.073	1.70/1.85	0.074	0.034
	MS9386-026	1.228/1.250	31.19/ 31.75	0.067/0.073	1.70/1.85	0.077	0.035
	MS9386-027	1.290/1.312	32.77/ 33.33	0.067/0.073	1.70/1.85	0.083	0.038
	MS9386-028	1.351/1.377	34.32/ 34.98	0.067/0.073	1.70/1.85	0.085	0.039
	MS9386-029	1.476/1.502	37.49/ 38.15	0.067/0.073	1.70/1.85	0.092	0.042
	MS9386-030	1.601/1.627	40.67/ 41.33	0.067/0.073	1.70/1.85	0.100	0.045
	MS9386-031	1.724/1.754	43.79/ 44.55	0.067/0.073	1.70/1.85	0.107	0.049
	MS9386-032	1.849/1.879	46.97/ 47.73	0.067/0.073	1.70/1.85	0.115	0.052
	MS9386-033	1.971/2.007	50.06/ 50.98	0.067/0.073	1.70/1.85	0.122	0.055
	MS9386-034	2.096/2.132	53.24/ 54.15	0.067/0.073	1.70/1.85	0.129	0.059
	MS9386-035	2.221/2.257	56.41/ 57.33	0.067/0.073	1.70/1.85	0.137	0.062
	MS9386-036	2.346/2.382	59.59/ 60.50	0.067/0.073	1.70/1.85	0.144	0.065
	MS9386-037	2.471/2.507	62.76/ 63.68	0.067/0.073	1.70/1.85	0.151	0.061
	MS9386-038	2.594/2.634	65.89/ 66.90	0.067/0.073	1.70/1.85	0.159	0.072
	MS9386-039	2.719/2.759	69.06/ 70.08	0.067/0.073	1.70/1.85	0.166	0.076
	MS9386-040	2.844/2.884	72.24/ 73.25	0.067/0.073	1.70/1.85	0.174	0.079
	MS9386-041	2.965/3.013	75.31/ 76.53	0.067/0.073	1.70/1.85	0.181	0.082
	MS9386-042	3.215/3.263	81.66/ 82.88	0.067/0.073	1.70/1.85	0.196	0.089
	MS9386-043	3.465/3.513	88.01/ 89.23	0.067/0.073	1.70/1.85	0.210	0.095
	MS9386-044	3.712/3.766	94.29/ 95.66	0.067/0.073	1.70/1.85	0.225	0.102
	MS9386-045	3.962/4.016	100.64/102.01	0.067/0.073	1.70/1.85	0.240	0.109
	MS9386-046	4.209/4.269	106.91/108.43	0.067/0.073	1.70/1.85	0.255	0.116
	MS9386-047	4.459/4.519	113.26/114.78	0.067/0.073	1.70/1.85	0.270	0.122
	MS9386-048	4.709/4.769	119.61/121.13	0.067/0.073	1.70/1.85	0.285	0.129
	MS9386-049	4.952/5.026	125.78/127.66	0.067/0.073	1.70/1.85	0.300	0.136
	MS9386-050	5.202/5.276	132.13/134.01	0.067/0.073	1.70/1.85	0.314	0.142

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
	MS9386-102	0.044/0.054	1.12/ 1.37	0.100/0.106	2.54/2.69	0.020	0.009
	MS9386-103	0.076/0.086	1.93/ 2.18	0.100/0.106	2.54/2.69	0.024	0.011
	MS9386-104	0.107/0.117	2.72/ 2.97	0.100/0.106	2.54/2.69	0.027	0.012
	MS9386-105	0.138/0.148	3.51/ 3.76	0.100/0.106	2.54/2.69	0.031	0.014
	MS9386-106	0.169/0.179	4.29/ 4.55	0.100/0.106	2.54/2.69	0.036	0.016
	MS9386-107	0.201/0.211	5.11/ 5.36	0.100/0.106	2.54/2.69	0.040	0.018
	MS9386-108	0.232/0.242	5.89/ 6.15	0.100/0.106	2.54/2.69	0.044	0.020
	MS9386-109	0.294/0.304	7.47/ 7.72	0.100/0.106	2.54/2.69	0.051	0.023
	MS9386-110	0.357/0.367	9.07/ 9.32	0.100/0.106	2.54/2.69	0.060	0.027
	MS9386-111	0.419/0.429	10.64/10.90	0.100/0.106	2.54/2.69	0.068	0.031
	MS9386-112	0.482/0.492	12.24/12.50	0.100/0.106	2.54/2.69	0.075	0.034
	MS9386-113	0.542/0.556	13.77/14.12	0.100/0.106	2.54/2.69	0.084	0.038
	MS9386-114	0.603/0.621	15.32/15.77	0.100/0.106	2.54/2.69	0.092	0.042
(a)	MS9386-115	0.665/0.683	16.89/17.35	0.100/0.106	2.54/2.69	0.099	0.045
	MS9386-116	0.728/0.746	18.49/18.95	0.100/0.106	2.54/2.69	0.108	0.049
	MS9386-117	0.789/0.809	20.04/20.55	0.100/0.106	2.54/2.69	0.116	0.053
	MS9386-118	0.852/0.872	21.64/22.15	0.100/0.106	2.54/2.69	0.124	0.056
	MS9386-119	0.914/0.934	23.22/23.72	0.100/0.106	2.54/2.69	0.132	0.060
	MS9386-120	0.977/0.997	24.82/25.32	0.100/0.106	2.54/2.69	0.140	0.064
	MS9386-121	1.039/1.059	26.39/26.90	0.100/0.106	2.54/2.69	0.148	0.067
	MS9386-122	1.102/1.122	27.99/28.50	0.100/0.106	2.54/2.69	0.156	0.071
	MS9386-123	1.162/1.186	29.52/30.12	0.100/0.106	2.54/2.69	0.164	0.074
	MS9386-124	1.225/1.249	31.12/31.73	0.100/0.106	2.54/2.69	0.172	0.078
	MS9386-125	1.287/1.311	32.69/33.30	0.100/0.106	2.54/2.69	0.180	0.082
	MS9386-126	1.350/1.374	34.29/34.90	0.100/0.106	2.54/2.69	0.188	0.085
	MS9386-127	1.412/1.436	35.87/36.47	0.100/0.106	2.54/2.69	0.196	0.089
	MS9386-128	1.475/1.499	37.47/38.08	0.100/0.106	2.54/2.69	0.204	0.093
	MS9386-129	1.534/1.564	38.96/39.73	0.100/0.106	2.54/2.69	0.212	0.096
	MS9386-130	1.597/1.627	40.56/41.33	0.100/0.106	2.54/2.69	0.220	0.100
	MS9386-131	1.659/1.689	42.14/42.90	0.100/0.106	2.54/2.69	0.228	0.103
	MS9386-132	1.722/1.752	43.74/44.50	0.100/0.106	2.54/2.69	0.236	0.108
	MS9386-133	1.784/1.814	45.31/46.08	0.100/0.106	2.54/2.69	0.244	0.111
	MS9386-134	1.847/1.877	46.91/47.68	0.100/0.106	2.54/2.69	0.252	0.114
	MS9386-135	1.908/1.942	48.46/49.33	0.100/0.106	2.54/2.69	0.260	0.118
	MS9386-136	1.970/2.004	50.04/50.90	0.100/0.106	2.54/2.69	0.268	0.122
	MS9386-137	2.033/2.067	51.64/52.50	0.100/0.106	2.54/2.69	0.276	0.125
	MS9386-138	2.095/2.129	53.21/54.08	0.100/0.106	2.54/2.69	0.284	0.129
	MS9386-139	2.158/2.192	54.81/55.68	0.100/0.106	2.54/2.69	0.292	0.132
	MS9386-140	2.220/2.254	56.39/57.25	0.100/0.106	2.54/2.69	0.300	0.136
	MS9386-141	2.280/2.320	57.91/58.93	0.100/0.106	2.54/2.69	0.308	0.140
	MS9386-142	2.342/2.382	59.49/60.50	0.100/0.106	2.54/2.69	0.316	0.143
	MS9386-143	2.405/2.445	61.09/62.10	0.100/0.106	2.54/2.69	0.324	0.147
	MS9386-144	2.467/2.507	62.66/63.68	0.100/0.106	2.54/2.69	0.332	0.151
	MS9386-145	2.530/2.570	64.26/65.28	0.100/0.106	2.54/2.69	0.340	0.154
	MS9386-146	2.592/2.632	65.84/66.85	0.100/0.106	2.54/2.69	0.348	0.158
	MS9386-147	2.653/2.697	67.39/68.50	0.100/0.106	2.54/2.69	0.356	0.161
	MS9386-148	2.715/2.759	68.96/70.08	0.100/0.106	2.54/2.69	0.364	0.165
	MS9386-149	2.778/2.822	70.56/71.68	0.100/0.106	2.54/2.69	0.372	0.169
(b)	MS9386-150	2.840/2.884	72.14/73.25	0.100/0.106	2.54/2.69	0.381	0.173

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)	MS9386-151	2.963/3.011	75.26/ 76.48	0.100/0.106	2.54/2.69	0.396	0.180
	MS9386-152	3.213/3.261	81.61/ 82.83	0.100/0.106	2.54/2.69	0.428	0.194
	MS9386-153	3.463/3.511	87.96/ 89.18	0.100/0.106	2.54/2.69	0.461	0.209
	MS9386-154	3.709/3.765	94.21/ 95.63	0.100/0.106	2.54/2.69	0.492	0.223
	MS9386-155	3.959/4.015	100.56/101.98	0.100/0.106	2.54/2.69	0.525	0.238
	MS9386-156	4.207/4.267	106.86/108.38	0.100/0.106	2.54/2.69	0.556	0.252
	MS9386-157	4.457/4.517	113.21/114.73	0.100/0.106	2.54/2.69	0.590	0.268
	MS9386-158	4.707/4.767	119.56/121.08	0.100/0.106	2.54/2.69	0.621	0.282
	MS9386-159	4.952/5.022	125.78/127.56	0.100/0.106	2.54/2.69	0.654	0.297
	MS9386-160	5.202/5.272	132.13/133.91	0.100/0.106	2.54/2.69	0.685	0.311
	MS9386-161	5.452/5.522	138.48/140.26	0.100/0.106	2.54/2.69	0.718	0.326
	MS9386-162	5.702/5.772	144.83/146.61	0.100/0.106	2.54/2.69	0.749	0.340
	MS9386-163	5.952/6.022	151.18/152.96	0.100/0.106	2.54/2.69	0.782	0.355
	MS9386-164	6.197/6.277	157.40/159.44	0.100/0.106	2.54/2.69	0.812	0.368
	MS9386-165	6.447/6.527	163.75/165.79	0.100/0.106	2.54/2.69	0.845	0.383
	MS9386-166	6.697/6.777	170.10/172.14	0.100/0.106	2.54/2.69	0.876	0.397
	MS9386-167	6.947/7.027	176.45/178.49	0.100/0.106	2.54/2.69	0.910	0.413
	MS9386-168	7.192/7.282	182.68/184.96	0.100/0.106	2.54/2.69	0.941	0.427
	MS9386-169	7.442/7.532	189.03/191.31	0.100/0.106	2.54/2.69	0.974	0.442
	MS9386-170	7.692/7.782	195.38/197.66	0.100/0.106	2.54/2.69	1.015	0.460
	MS9386-171	7.942/8.032	201.73/204.01	0.100/0.106	2.54/2.69	1.035	0.470
	MS9386-172	8.187/8.287	207.95/210.49	0.100/0.106	2.54/2.69	1.070	0.485
	MS9386-173	8.437/8.537	214.30/216.84	0.100/0.106	2.54/2.69	1.101	0.499
	MS9386-174	8.687/8.787	220.65/223.19	0.100/0.106	2.54/2.69	1.132	0.514
	MS9386-175	8.937/9.037	227.00/229.54	0.100/0.106	2.54/2.69	1.163	0.528
	MS9386-176	9.182/9.292	233.22/236.02	0.100/0.106	2.54/2.69	1.199	0.544
	MS9386-177	9.432/9.542	239.57/242.37	0.100/0.106	2.54/2.69	1.230	0.558
	MS9386-178	9.682/9.792	245.92/248.72	0.100/0.106	2.54/2.69	1.260	0.572
	MS9386-201	0.166/0.176	4.22/ 4.47	0.135/0.143	3.43/3.63	0.072	0.033
	MS9386-202	0.229/0.239	5.82/ 6.07	0.135/0.143	3.43/3.63	0.087	0.039
	MS9386-203	0.291/0.301	7.39/ 7.65	0.135/0.143	3.43/3.63	0.101	0.046
	MS9386-204	0.354/0.364	8.99/ 9.25	0.135/0.143	3.43/3.63	0.116	0.053
	MS9386-205	0.416/0.426	10.57/ 10.82	0.135/0.143	3.43/3.63	0.131	0.059
	MS9386-206	0.479/0.489	12.17/ 12.42	0.135/0.143	3.43/3.63	0.146	0.066
	MS9386-207	0.539/0.553	13.69/ 14.05	0.135/0.143	3.43/3.63	0.160	0.073
	MS9386-208	0.600/0.618	15.24/ 15.70	0.135/0.143	3.43/3.63	0.175	0.079
	MS9386-209	0.662/0.680	16.81/ 17.27	0.135/0.143	3.43/3.63	0.189	0.086
	MS9386-210	0.724/0.744	18.39/ 18.90	0.135/0.143	3.43/3.63	0.204	0.093
	MS9386-211	0.786/0.806	19.96/ 20.47	0.135/0.143	3.43/3.63	0.219	0.099
	MS9386-212	0.849/0.869	21.56/ 22.07	0.135/0.143	3.43/3.63	0.233	0.106
	MS9386-213	0.911/0.931	23.14/ 23.65	0.135/0.143	3.43/3.63	0.248	0.112
	MS9386-214	0.974/0.994	24.74/ 25.25	0.135/0.143	3.43/3.63	0.262	0.119
	MS9386-215	1.036/1.056	26.31/ 26.82	0.135/0.143	3.43/3.63	0.277	0.126
	MS9386-216	1.097/1.121	27.86/ 28.47	0.135/0.143	3.43/3.63	0.292	0.132
	MS9386-217	1.159/1.183	29.44/ 30.05	0.135/0.143	3.43/3.63	0.306	0.139
	MS9386-218	1.222/1.246	31.04/ 31.65	0.135/0.143	3.43/3.63	0.322	0.146
	MS9386-219	1.284/1.308	32.61/ 33.22	0.135/0.143	3.43/3.63	0.335	0.152
	MS9386-220	1.347/1.371	34.21/ 34.82	0.135/0.143	3.43/3.63	0.350	0.159

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
(a)	MS9386-221	1.409/1.433	35.79/ 36.40	0.135/0.143	3.43/3.63	0.364	0.165
	MS9386-222	1.469/1.499	37.31/ 38.08	0.135/0.143	3.43/3.63	0.379	0.172
	MS9386-223	1.594/1.624	40.49/ 41.25	0.135/0.143	3.43/3.63	0.408	0.185
	MS9386-224	1.719/1.749	43.66/ 44.42	0.135/0.143	3.43/3.63	0.437	0.198
	MS9386-225	1.841/1.877	46.76/ 47.68	0.135/0.143	3.43/3.63	0.466	0.211
	MS9386-226	1.966/2.002	49.94/ 50.85	0.135/0.143	3.43/3.63	0.496	0.225
	MS9386-227	2.091/2.127	53.11/ 54.03	0.135/0.143	3.43/3.63	0.526	0.239
	MS9386-228	2.214/2.254	56.24/ 57.25	0.135/0.143	3.43/3.63	0.555	0.252
	MS9386-229	2.339/2.379	59.41/ 60.43	0.135/0.143	3.43/3.63	0.585	0.265
	MS9386-230	2.464/2.504	62.59/ 63.60	0.135/0.143	3.43/3.63	0.612	0.278
	MS9386-231	2.589/2.629	65.76/ 66.78	0.135/0.143	3.43/3.63	0.642	0.291
	MS9386-232	2.710/2.758	68.83/ 70.05	0.135/0.143	3.43/3.63	0.671	0.304
	MS9386-233	2.835/2.883	72.01/ 73.23	0.135/0.143	3.43/3.63	0.700	0.318
	MS9386-234	2.960/3.008	75.18/ 76.40	0.135/0.143	3.43/3.63	0.730	0.331
	MS9386-235	3.085/3.133	78.36/ 79.58	0.135/0.143	3.43/3.63	0.758	0.344
	MS9386-236	3.210/3.258	81.53/ 82.75	0.135/0.143	3.43/3.63	0.788	0.357
	MS9386-237	3.335/3.383	84.71/ 85.93	0.135/0.143	3.43/3.63	0.816	0.370
	MS9386-238	3.460/3.508	87.88/ 89.10	0.135/0.143	3.43/3.63	0.845	0.383
	MS9386-239	3.581/3.637	90.96/ 92.38	0.135/0.143	3.43/3.63	0.876	0.397
	MS9386-240	3.706/3.762	94.13/ 95.56	0.135/0.143	3.43/3.63	0.905	0.410
	MS9386-241	3.831/3.887	97.31/ 98.73	0.135/0.143	3.43/3.63	0.935	0.424
	MS9386-242	3.956/4.012	100.48/101.91	0.135/0.143	3.43/3.63	0.964	0.437
	MS9386-243	4.081/4.137	103.66/105.08	0.135/0.143	3.43/3.63	0.994	0.451
	MS9386-244	4.204/4.264	106.78/108.31	0.135/0.143	3.43/3.63	1.021	0.463
	MS9386-245	4.329/4.389	109.96/111.48	0.135/0.143	3.43/3.63	1.050	0.476
	MS9386-246	4.454/4.514	113.13/114.66	0.135/0.143	3.43/3.63	1.080	0.490
	MS9386-247	4.579/4.639	116.31/117.83	0.135/0.143	3.43/3.63	1.110	0.504
	MS9386-248	4.704/4.764	119.48/121.01	0.135/0.143	3.43/3.63	1.138	0.516
	MS9386-249	4.824/4.894	122.63/124.31	0.135/0.143	3.43/3.63	1.170	0.531
	MS9386-250	4.949/5.019	125.71/127.48	0.135/0.143	3.43/3.63	1.200	0.544
	MS9386-251	5.074/5.144	128.88/130.66	0.135/0.143	3.43/3.63	1.228	0.558
	MS9386-252	5.199/5.269	132.06/133.83	0.135/0.143	3.43/3.63	1.257	0.570
	MS9386-253	5.324/5.394	135.23/137.01	0.135/0.143	3.43/3.63	1.286	0.583
	MS9386-254	5.449/5.519	138.41/140.18	0.135/0.143	3.43/3.63	1.315	0.596
	MS9386-255	5.574/5.644	141.58/143.36	0.135/0.143	3.43/3.63	1.342	0.609
	MS9386-256	5.699/5.769	144.76/146.53	0.135/0.143	3.43/3.63	1.372	0.622
	MS9386-257	5.824/5.894	147.93/149.71	0.135/0.143	3.43/3.63	1.400	0.635
	MS9386-258	5.949/6.019	151.11/152.88	0.135/0.143	3.43/3.63	1.430	0.649
	MS9386-259	6.194/6.274	157.33/159.36	0.135/0.143	3.43/3.63	1.488	0.675
	MS9386-260	6.444/6.524	163.68/165.71	0.135/0.143	3.43/3.63	1.547	0.702
(b)	MS9386-261	6.694/6.774	170.03/172.06	0.135/0.143	3.43/3.63	1.605	0.728
	MS9386-262	6.944/7.024	176.38/178.41	0.135/0.143	3.43/3.63	1.662	0.754
	MS9386-263	7.189/7.279	182.60/184.89	0.135/0.143	3.43/3.63	1.720	0.780
	MS9386-264	7.439/7.529	188.95/191.24	0.135/0.143	3.43/3.63	1.780	0.807
	MS9386-265	7.689/7.779	195.30/197.59	0.135/0.143	3.43/3.63	1.839	0.834
	MS9386-266	7.939/8.029	201.65/203.94	0.135/0.143	3.43/3.63	1.900	0.862
	MS9386-267	8.184/8.284	207.87/210.41	0.135/0.143	3.43/3.63	1.957	0.888
	MS9386-268	8.434/8.534	214.22/216.76	0.135/0.143	3.43/3.63	2.015	0.914
	MS9386-269	8.684/8.784	220.57/223.11	0.135/0.143	3.43/3.63	2.075	0.941
	MS9386-270	8.934/9.034	226.92/229.46	0.135/0.143	3.43/3.63	2.121	0.962

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)	MS9386-271	9.179/ 9.289	233.15/235.94	0.135/0.143	3.43/3.63	2.194	0.995
	MS9386-272	9.429/ 9.539	239.50/242.29	0.135/0.143	3.43/3.63	2.245	1.018
	MS9386-273	9.679/ 9.789	245.85/248.64	0.135/0.143	3.43/3.63	2.306	1.046
	MS9386-274	9.929/10.039	252.20/254.99	0.135/0.143	3.43/3.63	2.365	1.073
	MS9386-275	10.429/10.539	264.90/267.69	0.135/0.143	3.43/3.63	2.473	1.122
	MS9386-276	10.919/11.049	277.34/280.65	0.135/0.143	3.43/3.63	2.600	1.179
	MS9386-277	11.419/11.549	290.04/293.35	0.135/0.143	3.43/3.63	2.715	1.232
	MS9386-278	11.919/12.049	302.74/306.05	0.135/0.143	3.43/3.63	2.832	1.285
	MS9386-279	12.919/13.049	328.14/331.45	0.135/0.143	3.43/3.63	3.065	1.390
	MS9386-280	13.919/14.049	353.54/356.85	0.135/0.143	3.43/3.63	3.300	1.497
	MS9386-281	14.919/15.049	378.94/382.25	0.135/0.143	3.43/3.63	3.535	1.604
	MS9386-282	15.880/16.030	403.35/407.16	0.135/0.143	3.43/3.63	3.759	1.705
	MS9386-283	16.875/17.035	428.63/432.69	0.135/0.143	3.43/3.63	3.993	1.811
	MS9386-284	17.870/18.040	453.90/458.22	0.135/0.143	3.43/3.63	4.227	1.917
	MS9386-309	0.407/ 0.417	10.34/ 10.59	0.205/0.215	5.21/5.46	0.332	0.151
	MS9386-310	0.470/ 0.480	11.94/ 12.19	0.205/0.215	5.21/5.46	0.365	0.166
	MS9386-311	0.530/ 0.544	13.46/ 13.82	0.205/0.215	5.21/5.46	0.399	0.181
	MS9386-312	0.591/ 0.609	15.01/ 15.47	0.205/0.215	5.21/5.46	0.432	0.196
	MS9386-313	0.653/ 0.671	16.59/ 17.04	0.205/0.215	5.21/5.46	0.465	0.211
	MS9386-314	0.715/ 0.735	18.16/ 18.67	0.205/0.215	5.21/5.46	0.498	0.226
	MS9386-315	0.777/ 0.797	19.74/ 20.24	0.205/0.215	5.21/5.46	0.532	0.241
	MS9386-316	0.840/ 0.860	21.34/ 21.84	0.205/0.215	5.21/5.46	0.565	0.256
	MS9386-317	0.902/ 0.922	22.91/ 23.42	0.205/0.215	5.21/5.46	0.598	0.271
	MS9386-318	0.965/ 0.985	24.51/ 25.02	0.205/0.215	5.21/5.46	0.632	0.287
	MS9386-319	1.027/ 1.047	26.09/ 26.59	0.205/0.215	5.21/5.46	0.665	0.302
	MS9386-320	1.088/ 1.112	27.64/ 28.25	0.205/0.215	5.21/5.46	0.698	0.317
	MS9386-321	1.150/ 1.174	29.21/ 29.82	0.205/0.215	5.21/5.46	0.732	0.332
	MS9386-322	1.213/ 1.237	30.81/ 31.42	0.205/0.215	5.21/5.46	0.765	0.347
	MS9386-323	1.275/ 1.299	32.39/ 33.00	0.205/0.215	5.21/5.46	0.798	0.362
	MS9386-324	1.338/ 1.362	33.99/ 34.60	0.205/0.215	5.21/5.46	0.832	0.377
	MS9386-325	1.460/ 1.490	37.08/ 37.85	0.205/0.215	5.21/5.46	0.897	0.407
	MS9386-326	1.585/ 1.615	40.26/ 41.02	0.205/0.215	5.21/5.46	0.965	0.438
	MS9386-327	1.710/ 1.740	43.43/ 44.20	0.205/0.215	5.21/5.46	1.031	0.468
	MS9386-328	1.835/ 1.865	46.61/ 47.37	0.205/0.215	5.21/5.46	1.100	0.499
	MS9386-329	1.957/ 1.993	49.71/ 50.62	0.205/0.215	5.21/5.46	1.163	0.528
	MS9386-330	2.082/ 2.118	52.88/ 53.80	0.205/0.215	5.21/5.46	1.231	0.558
	MS9386-331	2.207/ 2.243	56.06/ 56.97	0.205/0.215	5.21/5.46	1.300	0.590
	MS9386-332	2.332/ 2.368	59.23/ 60.15	0.205/0.215	5.21/5.46	1.368	0.620
	MS9386-333	2.455/ 2.495	62.36/ 63.37	0.205/0.215	5.21/5.46	1.433	0.650
	MS9386-334	2.580/ 2.620	65.53/ 66.55	0.205/0.215	5.21/5.46	1.498	0.680
	MS9386-335	2.705/ 2.745	68.71/ 69.72	0.205/0.215	5.21/5.46	1.565	0.710
	MS9386-336	2.830/ 2.870	71.88/ 72.90	0.205/0.215	5.21/5.46	1.632	0.740
	MS9386-337	2.951/ 2.999	74.96/ 76.18	0.205/0.215	5.21/5.46	1.700	0.771
	MS9386-338	3.076/ 3.124	78.13/ 79.35	0.205/0.215	5.21/5.46	1.765	0.800
	MS9386-339	3.201/ 3.249	81.31/ 82.53	0.205/0.215	5.21/5.46	1.830	0.830
	MS9386-340	3.326/ 3.374	84.48/ 85.70	0.205/0.215	5.21/5.46	1.900	0.862

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
	MS9386-341	3.451/ 3.499	87.66/ 88.88	0.205/0.215	5.21/5.46	1.965	0.891
	MS9386-342	3.572/ 3.628	90.73/ 92.15	0.205/0.215	5.21/5.46	2.030	0.921
	MS9386-343	3.697/ 3.753	93.90/ 95.33	0.205/0.215	5.21/5.46	2.100	0.953
	MS9386-344	3.822/ 3.878	97.08/ 98.50	0.205/0.215	5.21/5.46	2.166	0.982
	MS9386-345	3.947/ 4.003	100.25/101.68	0.205/0.215	5.21/5.46	2.233	1.013
	MS9386-346	4.072/ 4.128	103.43/104.85	0.205/0.215	5.21/5.46	2.300	1.043
	MS9386-347	4.195/ 4.255	106.55/108.08	0.205/0.215	5.21/5.46	2.366	1.074
	MS9386-348	4.320/ 4.380	109.73/111.25	0.205/0.215	5.21/5.46	2.432	1.103
	MS9386-349	4.445/ 4.505	112.90/114.43	0.205/0.215	5.21/5.46	2.495	1.132
(b)	MS9386-350	4.570/ 4.630	116.08/117.60	0.205/0.215	5.21/5.46	2.565	1.164
	MS9386-351	4.695/ 4.755	119.25/120.78	0.205/0.215	5.21/5.46	2.631	1.193
	MS9386-352	4.820/ 4.880	122.43/123.95	0.205/0.215	5.21/5.46	2.698	1.224
	MS9386-353	4.938/ 5.012	125.43/127.31	0.205/0.215	5.21/5.46	2.765	1.254
	MS9386-354	5.063/ 5.137	128.60/130.48	0.205/0.215	5.21/5.46	2.831	1.284
	MS9386-355	5.188/ 5.262	131.78/133.66	0.205/0.215	5.21/5.46	2.898	1.314
	MS9386-356	5.313/ 5.387	134.95/136.83	0.205/0.215	5.21/5.46	2.964	1.344
	MS9386-357	5.438/ 5.512	138.13/140.01	0.205/0.215	5.21/5.46	3.031	1.375
	MS9386-358	5.563/ 5.637	141.30/143.18	0.205/0.215	5.21/5.46	3.098	1.405
	MS9386-359	5.688/ 5.762	144.48/146.36	0.205/0.215	5.21/5.46	3.164	1.435
	MS9386-360	5.813/ 5.887	147.65/149.53	0.205/0.215	5.21/5.46	3.231	1.466
	MS9386-361	5.938/ 6.012	150.83/152.71	0.205/0.215	5.21/5.46	3.298	1.496
	MS9386-362	6.185/ 6.265	157.10/159.13	0.205/0.215	5.21/5.46	3.431	1.556
	MS9386-363	6.435/ 6.515	163.45/165.48	0.205/0.215	5.21/5.46	3.564	1.617
	MS9386-364	6.685/ 6.765	169.80/171.83	0.205/0.215	5.21/5.46	3.698	1.677
	MS9386-365	6.935/ 7.015	176.15/178.18	0.205/0.215	5.21/5.46	3.831	1.738
	MS9386-366	7.180/ 7.270	182.37/184.66	0.205/0.215	5.21/5.46	3.964	1.798
	MS9386-367	7.430/ 7.520	188.72/191.01	0.205/0.215	5.21/5.46	4.097	1.858
	MS9386-368	7.680/ 7.770	195.07/197.36	0.205/0.215	5.21/5.46	4.231	1.919
	MS9386-369	7.930/ 8.020	201.42/203.71	0.205/0.215	5.21/5.46	4.364	1.980
	MS9386-370	8.175/ 8.275	207.65/210.19	0.205/0.215	5.21/5.46	4.497	2.040
	MS9386-371	8.425/ 8.525	214.00/216.54	0.205/0.215	5.21/5.46	4.630	2.100
	MS9386-372	8.675/ 8.775	220.35/222.89	0.205/0.215	5.21/5.46	4.764	2.161
	MS9386-373	8.925/ 9.025	226.70/229.24	0.205/0.215	5.21/5.46	4.897	2.221
	MS9386-374	9.170/ 9.280	232.94/235.71	0.205/0.215	5.21/5.46	5.030	2.282
	MS9386-375	9.420/ 9.530	239.27/242.06	0.205/0.215	5.21/5.46	5.164	2.342
	MS9386-376	9.670/ 9.780	245.67/248.41	0.205/0.215	5.21/5.46	5.297	2.403
	MS9386-377	9.920/10.030	251.97/254.76	0.205/0.215	5.21/5.46	5.431	2.464
	MS9386-378	10.415/10.535	264.54/267.59	0.205/0.215	5.21/5.46	5.697	2.584
	MS9386-379	10.915/11.035	277.24/280.29	0.205/0.215	5.21/5.46	5.964	2.705
	MS9386-380	11.410/11.540	289.81/293.12	0.205/0.215	5.21/5.46	6.230	2.826
	MS9386-381	11.910/12.040	302.51/305.82	0.205/0.215	5.21/5.46	6.497	2.947
	MS9386-382	12.910/13.040	327.91/331.22	0.205/0.215	5.21/5.46	7.030	3.189
	MS9386-383	13.905/14.045	353.19/356.74	0.205/0.215	5.21/5.46	7.563	3.431
	MS9386-384	14.905/15.045	378.59/382.14	0.205/0.215	5.21/5.46	8.096	3.672
	MS9386-385	15.880/16.030	403.35/407.16	0.205/0.215	5.21/5.46	8.619	3.910

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)	MS9386-386	16.875/17.035	428.63/432.69	0.205/0.215	5.21/5.46	9.152	4.151
	MS9386-387	17.870/18.040	453.90/458.22	0.205/0.215	5.21/5.46	9.685	4.393
	MS9386-388	18.865/19.045	479.17/483.74	0.205/0.215	5.21/5.46	10.218	4.635
	MS9386-389	19.860/20.050	504.44/509.27	0.205/0.215	5.21/5.46	10.752	4.877
	MS9386-390	20.860/21.050	529.84/534.67	0.205/0.215	5.21/5.46	11.285	5.119
	MS9386-391	21.855/22.055	555.12/560.20	0.205/0.215	5.21/5.46	11.818	5.360
	MS9386-392	22.835/23.045	580.01/585.34	0.205/0.215	5.21/5.46	12.343	5.599
	MS9386-393	23.830/24.050	605.28/610.87	0.205/0.215	5.21/5.46	12.876	5.840
	MS9386-394	24.825/25.055	630.56/636.40	0.205/0.215	5.21/5.46	13.409	6.082
	MS9386-395	25.820/26.060	655.83/661.92	0.205/0.215	5.21/5.46	13.942	6.324
	MS9386-425	4.442/ 4.508	112.83/114.50	0.269/0.281	6.83/7.14	4.340	1.969
	MS9386-426	4.567/ 4.633	116.00/117.68	0.269/0.281	6.83/7.14	4.457	2.022
	MS9386-427	4.692/ 4.758	119.18/120.85	0.269/0.281	6.83/7.14	4.610	2.091
	MS9386-428	4.817/ 4.883	122.35/124.03	0.269/0.281	6.83/7.14	4.686	2.126
	MS9386-429	4.938/ 5.012	125.43/127.31	0.269/0.281	6.83/7.14	4.800	2.177
	MS9386-430	5.063/ 5.137	128.60/130.48	0.269/0.281	6.83/7.14	4.915	2.229
	MS9386-431	5.188/ 5.262	131.78/133.66	0.269/0.281	6.83/7.14	5.029	2.281
	MS9386-432	5.313/ 5.387	134.95/136.83	0.269/0.281	6.83/7.14	5.143	2.333
	MS9386-433	5.438/ 5.512	138.13/140.01	0.269/0.281	6.83/7.14	5.257	2.385
	MS9386-434	5.563/ 5.637	141.30/143.18	0.269/0.281	6.83/7.14	5.371	2.436
	MS9386-435	5.688/ 5.762	144.48/146.36	0.269/0.281	6.83/7.14	5.486	2.488
	MS9386-436	5.813/ 5.887	147.65/149.53	0.269/0.281	6.83/7.14	5.600	2.540
	MS9386-437	5.938/ 6.012	150.83/152.71	0.269/0.281	6.83/7.14	5.714	2.592
	MS9386-438	6.185/ 6.265	157.10/159.13	0.269/0.281	6.83/7.14	5.943	2.696
	MS9386-439	6.435/ 6.515	163.45/165.48	0.269/0.281	6.83/7.14	6.172	2.800
	MS9386-440	6.685/ 6.765	169.80/171.83	0.269/0.281	6.83/7.14	6.400	2.903
	MS9386-441	6.935/ 7.015	176.15/178.18	0.269/0.281	6.83/7.14	6.629	3.007
	MS9386-442	7.180/ 7.270	182.37/184.66	0.269/0.281	6.83/7.14	6.858	3.111
	MS9386-443	7.430/ 7.520	188.72/191.01	0.269/0.281	6.83/7.14	7.066	3.205
	MS9386-444	7.680/ 7.770	195.07/197.36	0.269/0.281	6.83/7.14	7.315	3.318
	MS9386-445	7.930/ 8.020	201.42/203.71	0.269/0.281	6.83/7.137	7.543	3.422
	MS9386-446	8.420/ 8.530	213.87/216.66	0.269/0.281	6.83/7.14	8.000	3.629
	MS9386-447	8.920/ 9.030	226.57/229.36	0.269/0.281	6.83/7.14	8.457	3.836
	MS9386-448	9.420/ 9.530	239.27/242.06	0.269/0.281	6.83/7.14	8.914	4.043
	MS9386-449	9.920/10.030	251.97/254.76	0.269/0.281	6.83/7.14	9.372	4.251
	MS9386-450	10.415/10.535	264.54/267.59	0.269/0.281	6.83/7.14	9.829	4.458
	MS9386-451	10.915/11.035	277.24/280.29	0.269/0.281	6.83/7.14	10.287	4.666
	MS9386-452	11.415/11.535	289.94/292.99	0.269/0.281	6.83/7.14	10.734	4.873
	MS9386-453	11.915/12.035	302.64/305.69	0.269/0.281	6.83/7.14	11.200	5.080
	MS9386-454	12.415/12.535	315.34/318.39	0.269/0.281	6.83/7.14	11.668	5.292
	MS9386-455	12.915/13.035	328.04/331.09	0.269/0.281	6.83/7.14	12.115	5.495
	MS9386-456	13.405/13.545	340.49/344.04	0.269/0.281	6.83/7.14	12.572	5.703
	MS9386-457	13.905/14.045	353.19/356.74	0.269/0.281	6.83/7.14	13.029	5.910
	MS9386-458	14.405/14.545	365.89/369.44	0.269/0.281	6.83/7.14	13.486	6.117
	MS9386-459	14.905/15.045	378.59/382.14	0.269/0.281	6.83/7.14	13.943	6.324
	MS9386-460	15.405/15.545	391.29/394.84	0.269/0.281	6.83/7.14	14.401	6.532
(b)	MS9386-461	15.880/16.030	403.35/407.16	0.269/0.281	6.83/7.14	14.840	6.731
	MS9386-462	16.380/16.530	416.05/419.86	0.269/0.281	6.83/7.14	15.297	6.939
	MS9386-463	16.875/17.035	428.63/432.69	0.269/0.281	6.83/7.14	15.754	7.146
	MS9386-464	17.370/17.540	441.20/445.52	0.269/0.281	6.83/7.14	16.211	7.353
	MS9386-465	17.870/18.040	453.90/458.22	0.269/0.281	6.83/7.14	16.668	7.560

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)	MS9386-466	18.370/18.540	466.60/470.92	0.269/0.281	6.83/7.14	17.126	7.768
	MS9386-467	18.865/19.045	479.17/483.74	0.269/0.281	6.83/7.14	17.583	7.976
	MS9386-468	19.365/19.545	491.87/496.44	0.269/0.281	6.83/7.14	18.040	8.183
	MS9386-469	19.860/20.050	504.44/509.27	0.269/0.281	6.83/7.14	18.497	8.390
	MS9386-470	20.860/21.050	529.84/534.67	0.269/0.281	6.83/7.14	19.411	8.805
	MS9386-471	21.855/22.055	555.13/560.20	0.269/0.281	6.83/7.14	20.326	9.220
	MS9386-472	22.835/23.045	580.01/585.34	0.269/0.281	6.83/7.14	21.226	9.628
	MS9386-473	23.830/24.050	605.28/610.87	0.269/0.281	6.83/7.14	22.140	10.042
	MS9386-474	24.825/25.055	630.56/636.40	0.269/0.281	6.83/7.14	23.050	10.455
	MS9386-475	25.820/26.060	655.83/661.92	0.269/0.281	6.83/7.14	23.969	10.872

Table 2 - Boss O-rings sizes

Part Number	Nominal Tube Outside Diameter		ØID		ØW		Approx Mass	
	Inches	mm	Inches	mm	Inches	mm	lb/100	kg/100
MS9386-901	0.094	2.39	0.180/0.190	4.57/ 4.83	0.053/0.059	1.35/1.50	0.009	0.004
MS9386-902	0.125	3.18	0.234/0.244	5.94/ 6.20	0.061/0.067	1.55/1.70	0.015	0.007
MS9386-903	0.188	4.78	0.295/0.306	7.49/ 7.77	0.061/0.067	1.55/1.70	0.018	0.008
MS9386-904	0.250	6.35	0.346/0.356	8.79/ 9.04	0.069/0.075	1.75/1.91	0.026	0.012
MS9386-905	0.312	7.93	0.409/0.419	10.39/10.64	0.069/0.075	1.75/1.91	0.030	0.014
MS9386-906	0.375	9.53	0.463/0.473	11.76/12.01	0.075/0.081	1.91/2.06	0.040	0.018
MS9386-907	0.438	11.13	0.523/0.537	13.28/13.64	0.079/0.085	2.01/2.16	0.050	0.023
MS9386-908	0.500	12.70	0.635/0.653	16.13/16.59	0.084/0.090	2.13/2.29	0.067	0.030
MS9386-909	0.562	14.28	0.697/0.715	17.70/18.16	0.094/0.100	2.39/2.54	0.091	0.041
MS9386-910	0.625	15.88	0.746/0.764	18.95/19.41	0.094/0.100	2.39/2.54	0.097	0.044
MS9386-911	0.688	17.48	0.854/0.872	21.69/22.15	0.112/0.120	2.85/3.05	0.160	0.073
MS9386-912	0.750	19.05	0.915/0.933	23.24/23.70	0.112/0.120	2.85/3.05	0.169	0.077
MS9386-913	0.812	20.63	0.976/0.996	24.79/25.30	0.112/0.120	2.85/3.05	0.179	0.081
MS9386-914	0.875	22.23	1.037/1.057	26.34/26.85	0.112/0.120	2.85/3.05	0.189	0.086
MS9386-916	1.000	25.40	1.161/1.181	29.49/30.00	0.112/0.120	2.85/3.05	0.209	0.095
MS9386-918	1.125	28.58	1.343/1.367	34.11/34.72	0.112/0.120	2.85/3.05	0.240	0.109
MS9386-920	1.250	31.75	1.461/1.489	37.11/37.82	0.114/0.122	2.90/3.10	0.268	0.122
MS9386-924	1.500	38.10	1.706/1.734	43.33/44.04	0.114/0.122	2.90/3.10	0.309	0.140
MS9386-928	1.750	44.45	2.072/2.108	52.63/53.54	0.114/0.122	2.90/3.10	0.372	0.169
MS9386-932	2.000	50.80	2.319/2.356	58.90/59.84	0.114/0.122	2.90/3.10	0.412	0.187