

RATIONALE

AS3581 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

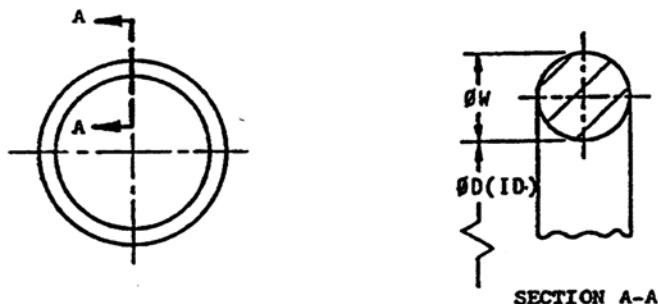


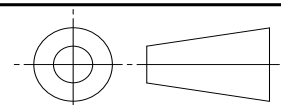
FIGURE 1

TABLE 1 - DIMENSIONS

DASH NO.	φD	φW	APPROX MASS lb/100
-001	.025 - .033	.037 - .043	.0014
-002	.038 - .046	.047 - .053	.0028
-003	.052 - .060	.057 - .063	.0046
-004	.065 - .075	.067 - .073	.0078
-005	.096 - .106	.067 - .073	.0097
-006	.109 - .119	.067 - .073	.0101
-007	.140 - .150	.067 - .073	.0120
-008	.171 - .181	.067 - .073	.0138
-009	.203 - .213	.067 - .073	.0156
-010	.234 - .244	.067 - .073	.0170
-011	.296 - .306	.067 - .073	.0207
-012	.359 - .369	.067 - .073	.0239
-013	.421 - .431	.067 - .073	.0276
-014	.484 - .494	.067 - .073	.0313
-015	.544 - .558	.067 - .073	.0345
-016	.605 - .623	.067 - .073	.0382
-017	.667 - .685	.067 - .073	.0414
-018	.730 - .748	.067 - .073	.0451
-019	.792 - .810	.067 - .073	.0483
-020	.855 - .873	.067 - .073	.0520
-021	.917 - .935	.067 - .073	.0552
-022	.979 - .999	.067 - .073	.0589
-023	1.041 - 1.061	.067 - .073	.0626
-024	1.104 - 1.124	.067 - .073	.0658
-025	1.165 - 1.187	.067 - .073	.0695
-026	1.228 - 1.250	.067 - .073	.0727
-027	1.290 - 1.312	.067 - .073	.0764
-028	1.351 - 1.377	.067 - .073	.0796
-029	1.476 - 1.502	.067 - .073	.0865
-030	1.601 - 1.627	.067 - .073	.0938

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS3581>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

PACKING, PREFORMED – O-RING SEAL
AMST259

SAE AS3581
SHEET 1 OF 9

TABLE 1 (CONTINUED)

DASH NO.	ϕD	ϕW	APPROX MASS lb/100
-031	1.724 - 1.754	.067 - .073	.1007
-032	1.849 - 1.879	.067 - .073	.1076
-033	1.971 - 2.007	.067 - .073	.1145
-034	2.096 - 2.132	.067 - .073	.1214
-035	2.221 - 2.257	.067 - .073	.1283
-036	2.346 - 2.382	.067 - .073	.1352
-037	2.471 - 2.507	.067 - .073	.1421
-038	2.594 - 2.634	.067 - .073	.1495
-039	2.719 - 2.759	.067 - .073	.1564
-040	2.844 - 2.884	.067 - .073	.1633
-041	2.965 - 3.013	.067 - .073	.1702
-042	3.215 - 3.263	.067 - .073	.1840
-043	3.465 - 3.513	.067 - .073	.1978
-044	3.712 - 3.766	.067 - .073	.2121
-045	3.962 - 4.016	.067 - .073	.2259
-046	4.209 - 4.269	.067 - .073	.2397
-047	4.459 - 4.519	.067 - .073	.2535
-048	4.709 - 4.769	.067 - .073	.2673
-049	4.952 - 5.026	.067 - .073	.2815
-050	5.202 - 5.276	.067 - .073	.2953
-102	.044 - .054	.100 - .106	.0184
-103	.076 - .086	.100 - .106	.0221
-104	.107 - .117	.100 - .106	.0258
-105	.138 - .148	.100 - .106	.0294
-106	.169 - .179	.100 - .106	.0336
-107	.201 - .211	.100 - .106	.0373
-108	.232 - .242	.100 - .106	.0409
-109	.294 - .304	.100 - .106	.0483
-110	.357 - .367	.100 - .106	.0561
-111	.419 - .429	.100 - .106	.0635
-112	.482 - .492	.100 - .106	.0708
-113	.542 - .556	.100 - .106	.0787
-114	.603 - .621	.100 - .106	.0860
-115	.665 - .683	.100 - .106	.0934
-116	.728 - .746	.100 - .106	.1012
-117	.789 - .809	.100 - .106	.1086
-118	.852 - .872	.100 - .106	.1164
-119	.914 - .934	.100 - .106	.1237
-120	.977 - .997	.100 - .106	.1311
-121	1.039 - 1.059	.100 - .106	.1389
-122	1.102 - 1.122	.100 - .106	.1463
-123	1.162 - 1.186	.100 - .106	.1536
-124	1.225 - 1.249	.100 - .106	.1615
-125	1.287 - 1.311	.100 - .106	.1688
-126	1.350 - 1.374	.100 - .106	.1762
-127	1.412 - 1.436	.100 - .106	.1840
-128	1.475 - 1.499	.100 - .106	.1914
-129	1.534 - 1.564	.100 - .106	.1987
-130	1.597 - 1.627	.100 - .106	.2065
-131	1.659 - 1.689	.100 - .106	.2139
-132	1.722 - 1.752	.100 - .106	.2217
-133	1.784 - 1.814	.100 - .106	.2291
-134	1.847 - 1.877	.100 - .106	.2364
-135	1.908 - 1.942	.100 - .106	.2443

TABLE 1 (CONTINUED)

DASH NO.	ϕD	ϕW	APPROX MASS lb/100
-136	1.970 - 2.004	.100 - .106	.2516
-137	2.033 - 2.067	.100 - .106	.2594
-138	2.095 - 2.129	.100 - .106	.2668
-139	2.158 - 2.192	.100 - .106	.2742
-140	2.220 - 2.254	.100 - .106	.2820
-141	2.280 - 2.320	.100 - .106	.2893
-142	2.342 - 2.382	.100 - .106	.2967
-143	2.405 - 2.445	.100 - .106	.3045
-144	2.467 - 2.507	.100 - .106	.3119
-145	2.530 - 2.570	.100 - .106	.3192
-146	2.592 - 2.632	.100 - .106	.3271
-147	2.653 - 2.697	.100 - .106	.3344
-148	2.715 - 2.759	.100 - .106	.3418
-149	2.778 - 2.822	.100 - .106	.3496
-150	2.840 - 2.884	.100 - .106	.3570
-151	2.963 - 3.011	.100 - .106	.3721
-152	3.213 - 3.261	.100 - .106	.4020
-153	3.463 - 3.511	.100 - .106	.4324
-154	3.709 - 3.765	.100 - .106	.4623
-155	3.959 - 4.015	.100 - .106	.4927
-156	4.207 - 4.267	.100 - .106	.5226
-157	4.457 - 4.517	.100 - .106	.5529
-158	4.707 - 4.767	.100 - .106	.5828
-159	4.952 - 5.022	.100 - .106	.6127
-160	5.202 - 5.272	.100 - .106	.6431
-161	5.452 - 5.522	.100 - .106	.6730
-162	5.702 - 5.772	.100 - .106	.7033
-163	5.952 - 6.022	.100 - .106	.7332
-164	6.197 - 6.277	.100 - .106	.7636
-165	6.447 - 6.527	.100 - .106	.7935
-166	6.697 - 6.777	.100 - .106	.8234
-167	6.947 - 7.027	.100 - .106	.8538
-168	7.192 - 7.282	.100 - .106	.8837
-169	7.442 - 7.532	.100 - .106	.9140
-170	7.692 - 7.782	.100 - .106	.9439
-171	7.942 - 8.032	.100 - .106	.9743
-172	8.187 - 8.287	.100 - .106	1.0042
-173	8.437 - 8.537	.100 - .106	1.0345
-174	8.687 - 8.787	.100 - .106	1.0644
-175	8.937 - 9.037	.100 - .106	1.0943
-176	9.182 - 9.292	.100 - .106	1.1247
-177	9.432 - 9.542	.100 - .106	1.1546
-178	9.682 - 9.792	.100 - .106	1.1850
-201	.166 - .176	.135 - .143	.0681
-202	.229 - .239	.135 - .143	.0819
-203	.291 - .301	.135 - .143	.0952
-204	.354 - .364	.135 - .143	.1090
-205	.416 - .426	.135 - .143	.1228
-206	.479 - .489	.135 - .143	.1366
-207	.539 - .553	.135 - .143	.1504
-208	.600 - .618	.135 - .143	.1642
-209	.662 - .680	.135 - .143	.1776
-210	.724 - .744	.135 - .143	.1914

TABLE 1 (CONTINUED)

DASH NO.	ϕD	ϕW	APPROX MASS lb/100
-211	.786 - .806	.135 - .143	.2052
-212	.849 - .869	.135 - .143	.2190
-213	.911 - .931	.135 - .143	.2323
-214	.974 - .994	.135 - .143	.2461
-215	1.036 - 1.056	.135 - .143	.2599
-216	1.097 - 1.121	.135 - .143	.2737
-217	1.159 - 1.183	.135 - .143	.2875
-218	1.222 - 1.246	.135 - .143	.3013
-219	1.284 - 1.308	.135 - .143	.3146
-220	1.347 - 1.371	.135 - .143	.3284
-221	1.409 - 1.433	.135 - .143	.3422
-222	1.469 - 1.499	.135 - .143	.3560
-223	1.594 - 1.624	.135 - .143	.3832
-224	1.719 - 1.749	.135 - .143	.4108
-225	1.841 - 1.877	.135 - .143	.4379
-226	1.966 - 2.002	.135 - .143	.4655
-227	2.091 - 2.127	.135 - .143	.4931
-228	2.214 - 2.254	.135 - .143	.5203
-229	2.339 - 2.379	.135 - .143	.5479
-230	2.464 - 2.504	.135 - .143	.5750
-231	2.589 - 2.629	.135 - .143	.6026
-232	2.710 - 2.758	.135 - .143	.6302
-233	2.835 - 2.883	.135 - .143	.6573
-234	2.960 - 3.008	.135 - .143	.6849
-235	3.085 - 3.133	.135 - .143	.7121
-236	3.210 - 3.258	.135 - .143	.7397
-237	3.335 - 3.383	.135 - .143	.7673
-238	3.460 - 3.508	.135 - .143	.7944
-239	3.581 - 3.637	.135 - .143	.8220
-240	3.706 - 3.762	.135 - .143	.8492
-241	3.831 - 3.887	.135 - .143	.8768
-242	3.956 - 4.012	.135 - .143	.9044
-243	4.081 - 4.137	.135 - .143	.9315
-244	4.204 - 4.264	.135 - .143	.9591
-245	4.329 - 4.389	.135 - .143	.9862
-246	4.454 - 4.514	.135 - .143	1.0138
-247	4.579 - 4.639	.135 - .143	1.0410
-248	4.704 - 4.764	.135 - .143	1.0686
-249	4.824 - 4.894	.135 - .143	1.0962
-250	4.949 - 5.019	.135 - .143	1.1233
-251	5.074 - 5.144	.135 - .143	1.1509
-252	5.199 - 5.269	.135 - .143	1.1781
-253	5.324 - 5.394	.135 - .143	1.2057
-254	5.449 - 5.519	.135 - .143	1.2333
-255	5.574 - 5.644	.135 - .143	1.2604
-256	5.699 - 5.769	.135 - .143	1.2880
-257	5.824 - 5.894	.135 - .143	1.3151
-258	5.949 - 6.019	.135 - .143	1.3427
-259	6.194 - 6.274	.135 - .143	1.3975
-260	6.444 - 6.524	.135 - .143	1.4522
-261	6.694 - 6.774	.135 - .143	1.5074
-262	6.944 - 7.024	.135 - .143	1.5622
-263	7.189 - 7.279	.135 - .143	1.6169
-264	7.439 - 7.529	.135 - .143	1.6716
-265	7.689 - 7.779	.135 - .143	1.7264

TABLE 1 (CONTINUED)

DASH NO.	ϕ D	ϕ W	APPROX MASS lb/100
-266	7.939 - 8.029	.135 - .143	1.7811
-267	8.184 - 8.284	.135 - .143	1.8363
-268	8.434 - 8.534	.135 - .143	1.8911
-269	8.684 - 8.784	.135 - .143	1.9458
-270	8.934 - 9.034	.135 - .143	2.0005
-271	9.179 - 9.289	.135 - .143	2.0553
-272	9.429 - 9.539	.135 - .143	2.1105
-273	9.679 - 9.789	.135 - .143	2.1652
-274	9.929 - 10.039	.135 - .143	2.2200
-275	10.429 - 10.539	.135 - .143	2.3294
-276	10.919 - 11.049	.135 - .143	2.4394
-277	11.419 - 11.549	.135 - .143	2.5489
-278	11.919 - 12.049	.135 - .143	2.6583
-279	12.919 - 13.049	.135 - .143	2.8778
-280	13.919 - 14.049	.135 - .143	3.0972
-281	14.919 - 15.049	.135 - .143	3.3166
-282	15.880 - 16.030	.135 - .143	3.5391
-283	16.875 - 17.035	.135 - .143	3.7485
-284	17.870 - 18.040	.135 - .143	3.9680
-309	.407 - .417	.205 - .215	.3114
-310	.470 - .480	.205 - .215	.3427
-311	.530 - .544	.205 - .215	.3740
-312	.591 - .609	.205 - .215	.4053
-313	.653 - .671	.205 - .215	.4365
-314	.715 - .735	.205 - .215	.4678
-315	.777 - .797	.205 - .215	.4991
-316	.840 - .860	.205 - .215	.5304
-317	.902 - .922	.205 - .215	.5617
-318	.965 - .985	.205 - .215	.5929
-319	1.027 - 1.047	.205 - .215	.6242
-320	1.088 - 1.112	.205 - .215	.6555
-321	1.150 - 1.174	.205 - .215	.6868
-322	1.213 - 1.237	.205 - .215	.7181
-323	1.275 - 1.299	.205 - .215	.7493
-324	1.338 - 1.362	.205 - .215	.7806
-325	1.460 - 1.490	.205 - .215	.8432
-326	1.585 - 1.615	.205 - .215	.9062
-327	1.710 - 1.740	.205 - .215	.9688
-328	1.835 - 1.865	.205 - .215	1.0313
-329	1.957 - 1.993	.205 - .215	1.0939
-330	2.082 - 2.118	.205 - .215	1.1564
-331	2.207 - 2.243	.205 - .215	1.2190
-332	2.332 - 2.368	.205 - .215	1.2816
-333	2.455 - 2.495	.205 - .215	1.3441
-334	2.580 - 2.620	.205 - .215	1.4067
-335	2.705 - 2.745	.205 - .215	1.4692
-336	2.830 - 2.870	.205 - .215	1.5318
-337	2.951 - 2.999	.205 - .215	1.5944
-338	3.076 - 3.124	.205 - .215	1.6569
-339	3.201 - 3.249	.205 - .215	1.7195
-340	3.326 - 3.374	.205 - .215	1.7820

TABLE 1 (CONTINUED)

DASH NO.	ϕ D	ϕ W	APPROX MASS lb/100
-341	3.451 - 3.499	.205 - .215	1.8446
-342	3.572 - 3.628	.205 - .215	1.9072
-343	3.697 - 3.753	.205 - .215	1.9697
-344	3.822 - 3.878	.205 - .215	2.0323
-345	3.947 - 4.003	.205 - .215	2.0948
-346	4.072 - 4.128	.205 - .215	2.1574
-347	4.195 - 4.255	.205 - .215	2.2200
-348	4.320 - 4.380	.205 - .215	2.2825
-349	4.445 - 4.505	.205 - .215	2.3451
-350	4.570 - 4.630	.205 - .215	2.4076
-351	4.695 - 4.755	.205 - .215	2.4702
-352	4.820 - 4.880	.205 - .215	2.5328
-353	4.938 - 5.012	.205 - .215	2.5953
-354	5.063 - 5.137	.205 - .215	2.6579
-355	5.188 - 5.262	.205 - .215	2.7204
-356	5.313 - 5.387	.205 - .215	2.7830
-357	5.438 - 5.512	.205 - .215	2.8456
-358	5.563 - 5.637	.205 - .215	2.9081
-359	5.688 - 5.762	.205 - .215	2.9707
-360	5.813 - 5.887	.205 - .215	3.0332
-361	5.938 - 6.012	.205 - .215	3.0958
-362	6.185 - 6.265	.205 - .215	3.2209
-363	6.435 - 6.515	.205 - .215	3.3460
-364	6.685 - 6.765	.205 - .215	3.4712
-365	6.935 - 7.015	.205 - .215	3.5963
-366	7.180 - 7.270	.205 - .215	3.7214
-367	7.430 - 7.520	.205 - .215	3.8465
-368	7.680 - 7.770	.205 - .215	3.9716
-369	7.930 - 8.020	.205 - .215	4.0968
-370	8.175 - 8.275	.205 - .215	4.2219
-371	8.425 - 8.525	.205 - .215	4.3470
-372	8.675 - 8.775	.205 - .215	4.4721
-373	8.925 - 9.025	.205 - .215	4.5972
-374	9.170 - 9.280	.205 - .215	4.7224
-375	9.420 - 9.530	.205 - .215	4.8475
-376	9.670 - 9.780	.205 - .215	4.9731
-377	9.920 - 10.030	.205 - .215	5.0982
-378	10.415 - 10.535	.205 - .215	5.3484
-379	10.915 - 11.035	.205 - .215	5.5987
-380	11.410 - 11.540	.205 - .215	5.8489
-381	11.910 - 12.040	.205 - .215	6.0991
-382	12.910 - 13.040	.205 - .215	6.5996
-383	13.905 - 14.045	.205 - .215	7.1001
-384	14.905 - 15.045	.205 - .215	7.6006
-385	15.880 - 16.030	.205 - .215	8.0914
-386	16.875 - 17.035	.205 - .215	8.5919
-387	17.870 - 18.040	.205 - .215	9.0924
-388	18.865 - 19.045	.205 - .215	9.5920
-389	19.860 - 20.050	.205 - .215	10.0933
-390	20.860 - 21.050	.205 - .215	10.5938
-391	21.855 - 22.055	.205 - .215	11.0943
-392	22.835 - 23.045	.205 - .215	11.5874
-393	23.830 - 24.050	.205 - .215	12.0879
-394	24.825 - 25.055	.205 - .215	12.5884
-395	25.820 - 26.060	.205 - .215	13.0888

TABLE 1 (CONTINUED)

DASH NO.	ϕD	ϕW	APPROX MASS lb/100
-425	4.442 - 4.508	.269 - .281	4.0770
-426	4.567 - 4.633	.269 - .281	4.1846
-427	4.692 - 4.758	.269 - .281	4.2918
-428	4.817 - 4.883	.269 - .281	4.3990
-429	4.938 - 5.012	.269 - .281	4.5062
-430	5.063 - 5.137	.269 - .281	4.6138
-431	5.188 - 5.262	.269 - .281	4.7210
-432	5.313 - 5.387	.269 - .281	4.8282
-433	5.438 - 5.512	.269 - .281	4.9353
-434	5.563 - 5.637	.269 - .281	5.0430
-435	5.688 - 5.762	.269 - .281	5.1502
-436	5.813 - 5.887	.269 - .281	5.2573
-437	5.938 - 6.012	.269 - .281	5.3645
-438	6.185 - 6.265	.269 - .281	5.5793
-439	6.435 - 6.515	.269 - .281	5.7937
-440	6.685 - 6.765	.269 - .281	6.0085
-441	6.935 - 7.015	.269 - .281	6.2229
-442	7.180 - 7.270	.269 - .281	6.4377
-443	7.430 - 7.520	.269 - .281	6.6521
-444	7.680 - 7.770	.269 - .281	6.8669
-445	7.930 - 8.020	.269 - .281	7.0812
-446	8.420 - 8.530	.269 - .281	7.5104
-447	8.920 - 9.030	.269 - .281	7.9396
-448	9.420 - 9.530	.269 - .281	8.3688
-449	9.920 - 10.030	.269 - .281	8.7980
-450	10.415 - 10.535	.269 - .281	9.2271
-451	10.915 - 11.035	.269 - .281	9.6563
-452	11.415 - 11.535	.269 - .281	10.0855
-453	11.915 - 12.035	.269 - .281	10.5147
-454	12.415 - 12.535	.269 - .281	10.9439
-455	12.915 - 13.035	.269 - .281	11.3730
-456	13.405 - 13.545	.269 - .281	11.8022
-457	13.905 - 14.045	.269 - .281	12.2314
-458	14.405 - 14.545	.269 - .281	12.6606
-459	14.905 - 15.045	.269 - .281	13.0898
-460	15.405 - 15.545	.269 - .281	13.5189
-461	15.880 - 16.030	.269 - .281	13.9311
-462	16.380 - 16.530	.269 - .281	14.3603
-463	16.875 - 17.035	.269 - .281	14.7895
-464	17.370 - 17.540	.269 - .281	15.2186
-465	17.870 - 18.040	.269 - .281	15.6478
-466	18.370 - 18.540	.269 - .281	16.0770
-467	18.865 - 19.045	.269 - .281	16.5062
-468	19.365 - 19.545	.269 - .281	16.9354
-469	19.860 - 20.050	.269 - .281	17.3645
-470	20.860 - 21.050	.269 - .281	18.2229
-471	21.855 - 22.055	.269 - .281	19.0813
-472	22.835 - 23.045	.269 - .281	19.9267
-473	23.830 - 24.050	.269 - .281	20.7846
-474	24.825 - 25.055	.269 - .281	21.6430
-475	25.820 - 26.060	.269 - .281	22.5014