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REV.
C

MA3281™

FEDERAL SUPPLY CLASS

RATIONALE

NOTES UPDATED, CADMIUM PLATE WARNING NOTE ADDED, NOTE RELATING TO STOCK USAGE ADDED.

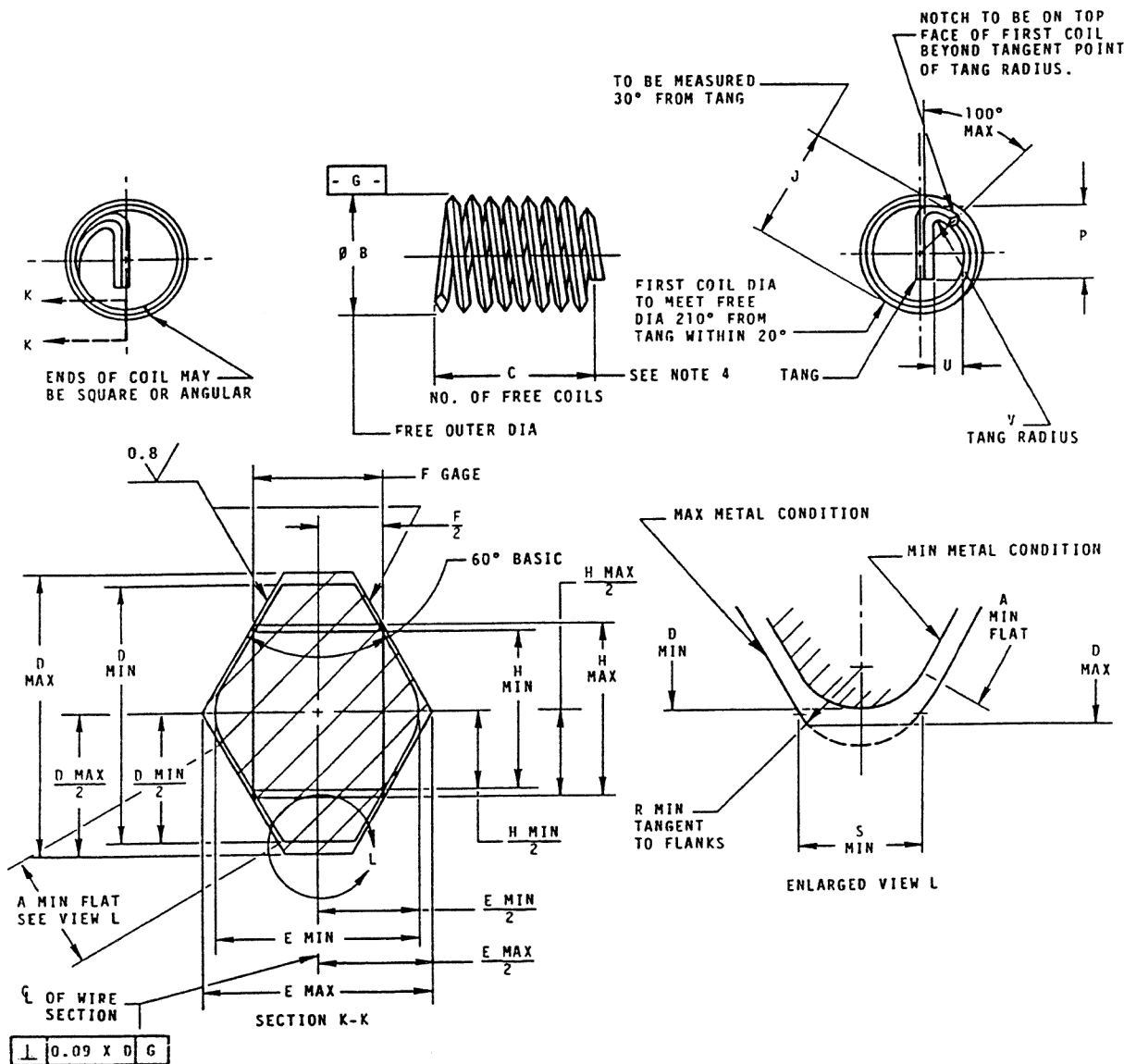
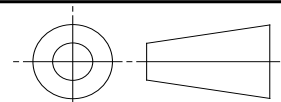


FIGURE 1

For more information on this standard, visit
<https://www.sae.org/standards/content/MA3281C>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: MA1565



METRIC AEROSPACE STANDARD

INSERT, SCREW THREAD, HELICAL COIL,
METRIC SERIES, FREE RUNNING,
CRES, CADMIUM PLATED

MA3281™
SHEET 1 OF 5

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TABLE 1

THREAD SIZE DIA	THREAD SIZE PITCH	AEROSPACE STANDARD PART NUMBER 1 DIA	AEROSPACE STANDARD PART NUMBER 1.5 DIA	AEROSPACE STANDARD PART NUMBER 2 DIA	AEROSPACE STANDARD PART NUMBER 2.5 DIA	AEROSPACE STANDARD PART NUMBER 3 DIA	NOMINAL LENGTH NOTE 1 1 DIA	NOMINAL LENGTH NOTE 1 1.5 DIA	NOMINAL LENGTH NOTE 1 2 DIA	NOMINAL LENGTH NOTE 1 2.5 DIA	NOMINAL LENGTH NOTE 1 3 DIA	A MIN	B MIN	B MAX
2	0.4	MA3281-140	MA3281-190	MA3281-240	MA3281-290	MA3281-340	2.0	3.0	4.0	5.0	6.0	0.074	2.50	2.70
2.2	0.45	MA3281-150	MA3281-150	MA3281-200	MA3281-250	MA3281-300	2.2	3.3	4.4	5.5	6.6	0.082	2.80	3.00
2.5	0.45	MA3281-101	MA3281-151	MA3281-201	MA3281-251	MA3281-301	2.5	3.8	5.0	6.3	7.5	0.082	3.20	3.70
3	0.5	MA3281-102	MA3281-152	MA3281-202	MA3281-252	MA3281-302	3.0	4.5	6.0	7.5	9.0	0.105	3.80	4.35
3.5	0.6	MA3281-103	MA3281-153	MA3281-203	MA3281-253	MA3281-303	3.5	5.3	7.0	8.8	10.5	0.160	4.40	4.95
4	0.7	MA3281-104	MA3281-154	MA3281-204	MA3281-254	MA3281-304	4.0	6.0	8.0	10.0	12.0	0.163	5.05	5.60
5	0.8	MA3281-105	MA3281-155	MA3281-205	MA3281-255	MA3281-305	5.0	7.5	10.0	12.5	15.0	0.209	6.25	6.80
6	1	MA3281-106	MA3281-156	MA3281-206	MA3281-256	MA3281-306	6.0	9.0	12.0	15.0	18.0	0.267	7.40	7.95
7	1	MA3281-107	MA3281-157	MA3281-207	MA3281-257	MA3281-307	7.0	10.5	14.0	17.5	21.0	0.267	8.65	9.20
8	1	MA3281-108	MA3281-158	MA3281-208	MA3281-258	MA3281-308	8.0	12.0	16.0	20.0	24.0	0.267	9.70	10.25
8	1.25	MA3281-109	MA3281-159	MA3281-209	MA3281-259	MA3281-309	8.0	12.0	16.0	20.0	24.0	0.415	9.80	10.35
10	1	MA3281-110	MA3281-160	MA3281-210	MA3281-260	MA3281-310	10.0	15.0	20.0	25.0	30.0	0.267	11.95	12.50
10	1.25	MA3281-111	MA3281-161	MA3281-211	MA3281-261	MA3281-311	10.0	15.0	20.0	25.0	30.0	0.511	12.10	12.65
10	1.5	MA3281-112	MA3281-162	MA3281-212	MA3281-262	MA3281-312	12.0	18.0	24.0	30.0	36.0	0.415	14.30	15.00
12	1.25	MA3281-113	MA3281-163	MA3281-213	MA3281-263	MA3281-313	12.0	18.0	24.0	30.0	36.0	0.511	14.25	14.95
12	1.75	MA3281-114	MA3281-164	MA3281-214	MA3281-264	MA3281-314	12.0	18.0	24.0	30.0	36.0	0.654	14.30	15.00
14	1.5	MA3281-115	MA3281-165	MA3281-215	MA3281-265	MA3281-315	14.0	21.0	28.0	35.0	42.0	0.511	16.55	17.25
14	2	MA3281-116	MA3281-166	MA3281-216	MA3281-266	MA3281-316	14.0	21.0	28.0	35.0	42.0	0.799	16.65	17.35
16	1.5	MA3281-117	MA3281-167	MA3281-217	MA3281-267	MA3281-317	16.0	24.0	32.0	40.0	48.0	0.511	18.90	19.60
16	2	MA3281-118	MA3281-168	MA3281-218	MA3281-268	MA3281-318	16.0	24.0	32.0	40.0	48.0	0.799	18.90	19.60
18	1.5	MA3281-119	MA3281-169	MA3281-219	MA3281-269	MA3281-319	18.0	27.0	36.0	45.0	54.0	0.511	21.05	21.75
18	2	MA3281-120	MA3281-170	MA3281-220	MA3281-270	MA3281-320	18.0	27.0	36.0	45.0	54.0	0.799	21.15	21.85
18	2.5	MA3281-121	MA3281-171	MA3281-221	MA3281-271	MA3281-321	18.0	27.0	36.0	45.0	54.0	1.017	21.30	22.00
20	1.5	MA3281-122	MA3281-172	MA3281-222	MA3281-272	MA3281-322	20.0	30.0	40.0	50.0	60.0	0.511	23.15	24.00
20	2	MA3281-123	MA3281-173	MA3281-223	MA3281-273	MA3281-323	20.0	30.0	40.0	50.0	60.0	0.799	23.20	24.05
20	2.5	MA3281-124	MA3281-174	MA3281-224	MA3281-274	MA3281-324	20.0	30.0	40.0	50.0	60.0	1.017	23.55	24.40
22	1.5	MA3281-125	MA3281-175	MA3281-225	MA3281-275	MA3281-325	22.0	33.0	44.0	55.0	66.0	0.511	25.55	26.45
22	2	MA3281-126	MA3281-176	MA3281-226	MA3281-276	MA3281-326	22.0	33.0	44.0	55.0	66.0	0.799	25.60	26.50
22	2.5	MA3281-127	MA3281-177	MA3281-227	MA3281-277	MA3281-327	22.0	33.0	44.0	55.0	66.0	1.017	25.90	26.90
24	2	MA3281-128	MA3281-178	MA3281-228	MA3281-278	MA3281-328	24.0	36.0	48.0	60.0	72.0	0.799	28.10	29.10
24	3	MA3281-129	MA3281-179	MA3281-229	MA3281-279	MA3281-329	24.0	36.0	48.0	60.0	72.0	1.234	28.00	29.00
27	2	MA3281-130	MA3281-180	MA3281-230	MA3281-280	MA3281-330	27.0	40.5	54.0	67.5	81.0	0.799	31.30	32.30
27	3	MA3281-131	MA3281-181	MA3281-231	MA3281-281	MA3281-331	27.0	40.5	54.0	67.5	81.0	1.234	31.40	32.40
30	2	MA3281-132	MA3281-182	MA3281-232	MA3281-282	MA3281-332	30.0	45.0	60.0	75.0	90.0	0.799	34.50	35.70
30	3	MA3281-133	MA3281-183	MA3281-233	MA3281-283	MA3281-333	30.0	45.0	60.0	75.0	90.0	1.234	34.90	36.10
33	2	MA3281-134	MA3281-184	MA3281-234	MA3281-284	MA3281-334	33.0	49.5	66.0	82.5	99.0	0.799	37.80	39.20
33	3	MA3281-135	MA3281-185	MA3281-235	MA3281-285	MA3281-335	33.0	49.5	66.0	82.5	99.0	1.234	38.10	39.50
36	2	MA3281-136	MA3281-186	MA3281-236	MA3281-286	MA3281-336	36.0	54.0	72.0	90.0	108.0	0.799	41.00	42.40
36	3	MA3281-137	MA3281-187	MA3281-237	MA3281-287	MA3281-337	36.0	54.0	72.0	90.0	108.0	1.234	41.30	42.70
39	2	MA3281-138	MA3281-188	MA3281-238	MA3281-288	MA3281-338	39.0	58.5	78.0	97.5	117.0	0.799	44.30	45.70
39	3	MA3281-139	MA3281-189	MA3281-239	MA3281-289	MA3281-339	39.0	58.5	78.0	97.5	117.0	1.234	44.40	45.80



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