

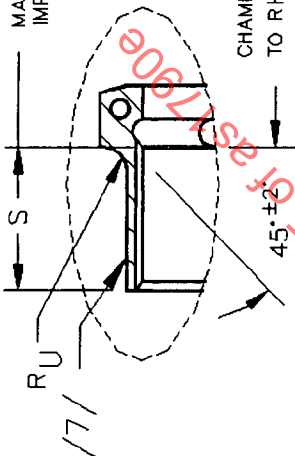
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AS1790

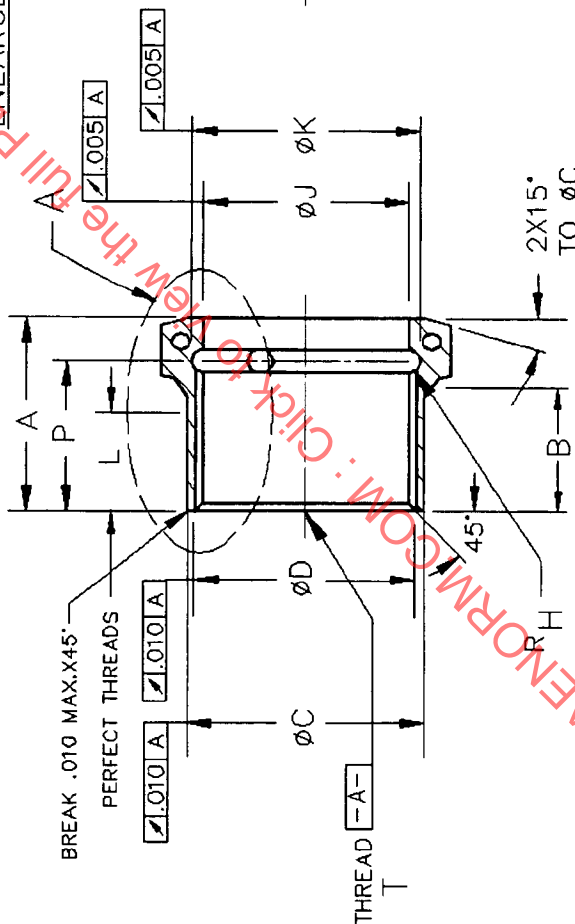
REV.
E

MAX. INCLUDES LAST
IMPERFECT THREAD



CHAMFER TANGENT
TO RH FOR SIZES
-04 TO -12 ONLY

ENLARGED VIEW A - NUT CHAMFER



HEX

G

ØE TO T R

30°±1°

F

/12/ SAFETY WIRE HOLES
PER AS1043 (OPTIONAL)

THIRD ANGLE PROJECTION

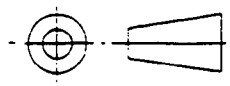


FIGURE 1 - NUT, RETAINED, LIGHTWEIGHT

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ MIL-F-18280

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL

400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

NUT, RETAINED, LIGHTWEIGHT

AS1790

SHEET 1 OF 3

REV.

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REV.
E

AS1790

TABLE 1 - DIMENSIONS A-H

BASIC NO. AS1790 /12/ SIZE CODE	NOMINAL TUBE SIZE	T THREAD PER MIL-S-8879	A ±.010	B ±.010	C	O ±.010	E	F	G	H ±.001
02	.125	.3125-24UNJF-3B	.530	.334	.370	.331	.077	.137	.370-.380	.038
03	.188	.3750-24UNJF-3B	.580	.320	.432	.394	.077	.170	.433-.443	.038
04	.250	.4375-20UNJF-3B	.615	.304	.524	.456	.077	.194	.552-.567	.038
05	.312	.5000-20UNJF-3B	.687	.376	.587	.519	.086	.224	.615-.630	.043
06	.375	.5625-18UNJF-3B	.718	.407	.649	.581	.086	.252	.678-.693	.043
08	.500	.7500-16UNJF-3B	.843	.500	.842	.769	.101	.341	.865-.880	.050
10	.625	.8750-14UNJF-3B	.968	.625	.968	.894	.101	.396	.990-1.005	.050
12	.750	1.0625-12UNJ -3B	1.015	.640	1.177	1.082	.131	.485	1.240-1.255	.065
14	.875	1.1875-12UNJ -3B	1.100	.725	1.302	1.208	.131	.548	1.365-1.380	.065
16	1.000	1.3125-12UNJ -3B	1.125	.750	1.427	1.332	.131	.610	1.484-1.516	.065
20	1.250	1.6250-12UNJ -3B	1.168	.778	1.740	1.645	.131	.766	1.792-1.832	.065
24	1.500	1.8750-12UNJ -3B	1.358	.920	2.055	1.895	.131	.893	2.105-2.145	.065
32	2.000	2.5000-12UNJ -3B	1.684	1.184	2.678	2.520	.131	1.200	2.730-2.770	.065

TABLE 2 - DIMENSIONS J-U

BASIC NO. AS1790 /12/ SIZE CODE	J	K	L MIN	P ±.004	R ±.015	S	U MIN	LB/EA MAX CRES	LB/EA MAX TI	LB/EA MAX AL
02	.2708-.2791	.350	.300	.430	.155	.382	.060	.007	.004	.003
03	.3338-.3420	.415	.330	.450	.170	.371	.060	.011	.007	.004
04	.3888-.3970	.461	.404	.500	.235	.500	.060	.016	.009	.006
05	.4513-.4591	.531	.402	.550	.255	.542	.060	.020	.012	.007
06	.5084-.5166	.588	.414	.573	.265	.569	.060	.025	.014	.009
08	.6892-.6977	.781	.488	.660	.325	.647	.060	.041	.024	.014
10	.8055-.8152	.896	.544	.762	.365	.727	.070	.056	.033	.019
12	.9814-.9914	1.102	.550	.780	.465	.763	.085	.093	.054	.032
14	1.1079-1.1179	1.231	.557	.850	.500	.790	.085	.117	.068	.041
16	1.2314-1.2414	1.352	.563	.875	.535	.813	.115	.135	.078	.047
20	1.5439-1.5539	1.664	.589	.959	.735	.813	.115	.183	.106	.064
24	1.7939-1.8039	1.917	.661	1.105	.842	.911	.115	.339	.196	.118
32	2.4189-2.4289	2.542	.844	1.340	1.026	1.094	.115	.590	.341	.205