



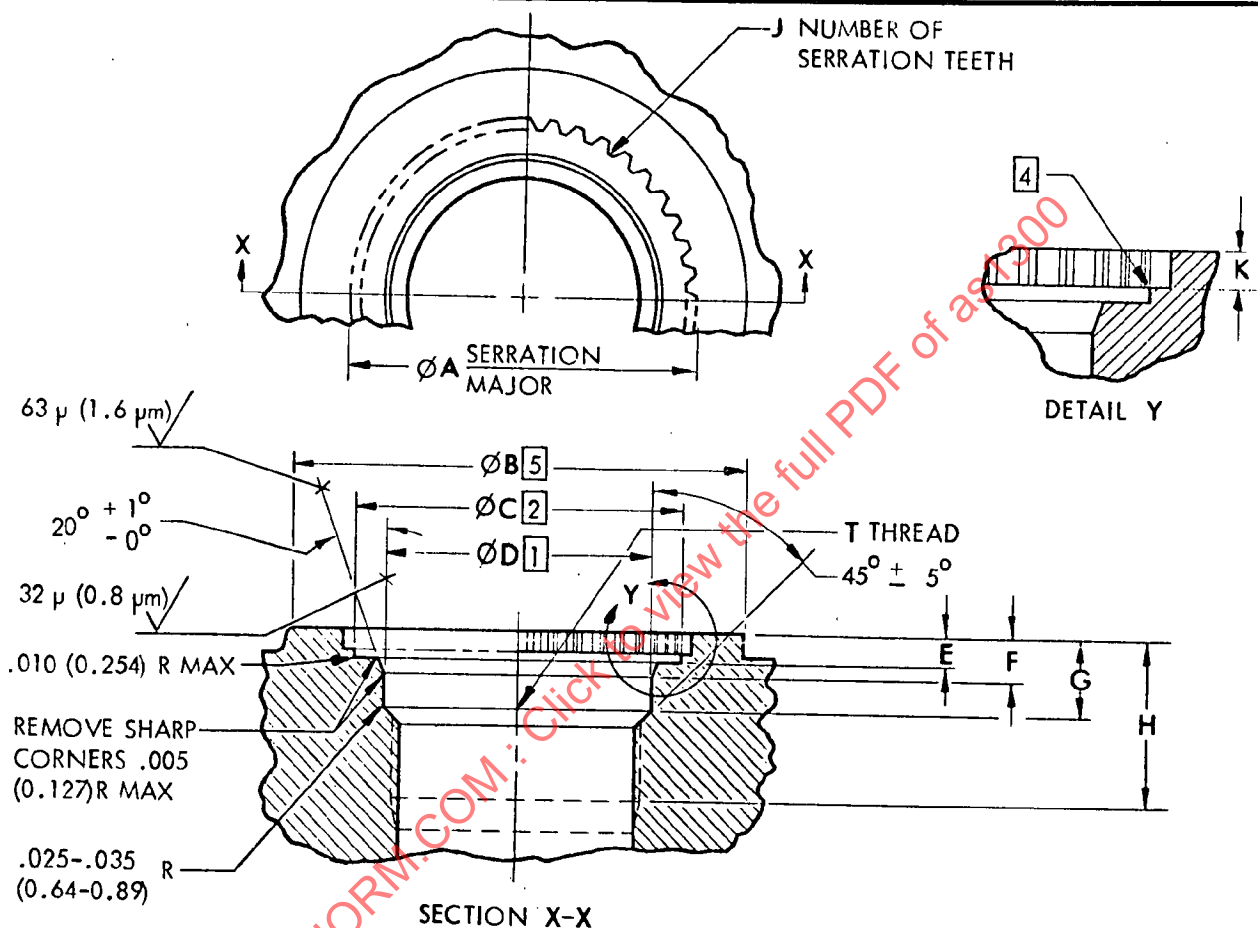
AEROSPACE STANDARD

AS 1300

Society of Automotive Engineers, Inc.
400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096

Issued August 1975
Revised

BOSS - RING LOCKED FLUID CONNECTION TYPE STANDARD DIMENSIONS FOR

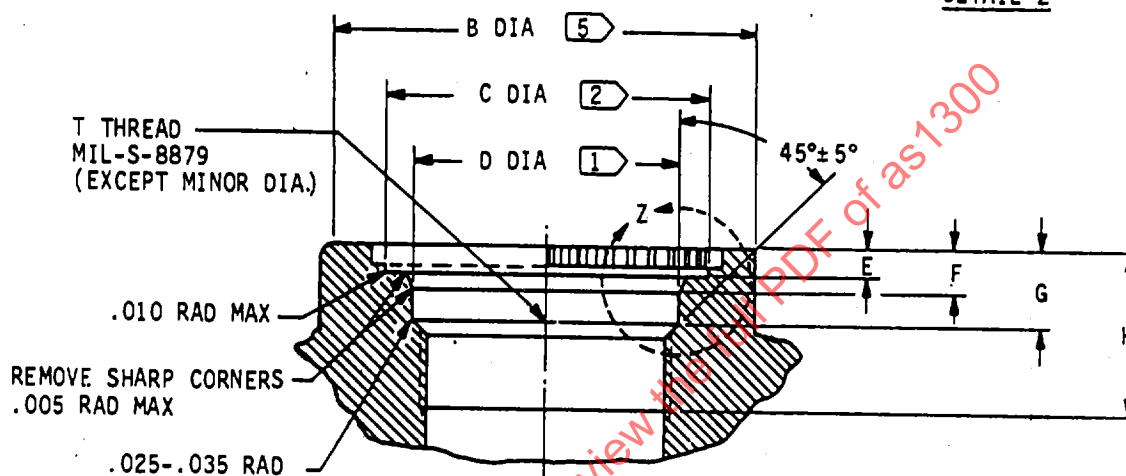
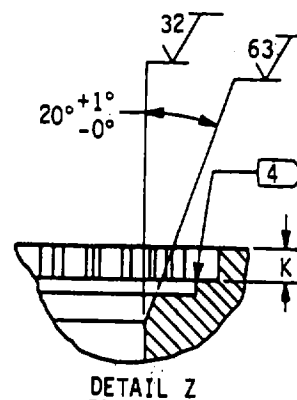
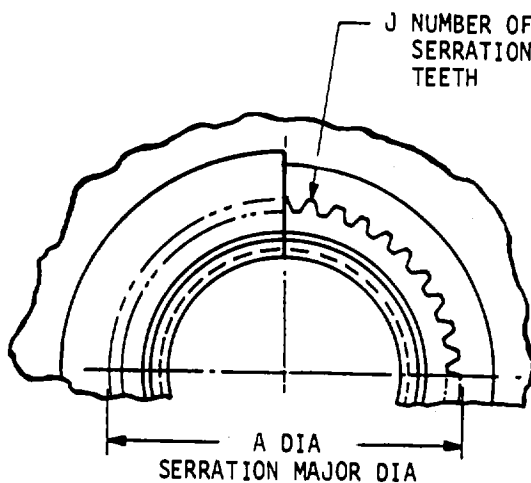


1. THREAD PITCH DIA AND "D" DIA SHALL BE CONCENTRIC WITHIN .003 (0.076) T.I.R.
 2. THREAD PITCH DIA SHALL BE CONCENTRIC WITHIN .003 (0.076) T.I.R. TO "C" DIA.
 3. THE DRILL AND PORTING TOOL METHOD OF PREPARING THE MACHINED CAVITY IS MANDATORY. DRILL .015-.030 (0.38-0.76) SMALLER THAN CONTROLLED MINOR DIA SPECIFIED; THE PORTING TOOL SPECIFIED WILL SIZE THE MINOR DIA AND PROVIDE BALANCE OF CAVITY CONFIGURATION READY FOR BROACHING SERRATION. USE OF BROACH TOOLS SPECIFIED ARE MANDATORY TO PROVIDE PROPER SERRATIONS.
 4. AFTER SERRATIONS ARE BROACHED, CHIP REMOVAL IS REQUIRED.
 5. THE MINIMUM BOSS DIAMETER "B" SHOWN IS TO RESIST ADAPTER INSTALLATION TORQUE AND COUPLING NUT TORQUE. THEY ARE SATISFACTORY FOR USE IN MATERIALS THAT EXHIBIT MINIMUM SHEAR STRENGTHS OF 26000 PSI (179.26 M Pa) OR MORE. A 10% INCREASE IN THE DIAMETERS SHOWN IS SUGGESTED FOR SIZES -05 THRU -08, AND A 15% INCREASE IN DIAMETERS SHOWN FOR SIZES -10 AND ABOVE WHEN DESIGNING IN MATERIALS WHOSE SHEAR STRENGTH IS LESS THAN 26000 PSI (179.26 M Pa). INCREASE NOT REQUIRED FOR -02 THRU -04. USING DESIGN ACTIVITY MAY REDUCE MIN "B" IN STEEL BOSSSES.
- DIMENSIONING: DIMENSIONS IN INCHES. METRIC CONVERSIONS IN MILLIMETERS ARE IN PARENTHESES. Ø = DIAMETER.

BOSS DASH NO.	TUBING O.D. REF	T THREAD		Ø A MIN	Ø B MIN [5]
		MIL-S-8879 CLASS - 3B	CONTROLLED MINOR DIA		
-02	.125 (3.175)	.216-28 UNJF	.1827- .1857 (4.641- 4.717)	.408 (10.363)	.50 (12.700)
-03	.188 (4.775)	.250-28 UNJF	.2167- .2197 (5.504- 5.580)	.478 (12.141)	.62 (15.748)
-04	.250 (6.350)	.3125-24 UNJF	.2734- .2764 (6.944- 7.021)	.524 (13.310)	.68 (17.272)
-05	.312 (7.925)	.375-24 UNJF	.3359- .3389 (8.532- 8.608)	.635 (16.129)	.79 (20.066)
-06	.375 (9.525)	.4375-20 UNJF	.3903- .3933 (9.914- 9.990)	.710 (18.034)	.85 (21.590)
-08	.500 (12.700)	.5625-18 UNJF	.5099- .5129 (12.951-13.028)	.826 (20.980)	1.04 (26.416)
-10	.625 (15.875)	.6875-24 UNJEF	.6484- .6514 (16.469-16.546)	1.052 (26.721)	1.17 (29.718)
-12	.750 (19.050)	.8125-20 UNJEF	.7653- .7683 (19.439-19.515)	1.182 (30.023)	1.42 (36.068)
-14	.875 (22.225)	.9375-20 UNJEF	.8903- .8933 (22.614-22.690)	1.354 (34.392)	1.54 (39.116)
-16	1.000 (25.400)	1.125-18 UNJEF	1.0714-1.0744 (27.214-27.290)	1.471 (37.363)	1.67 (42.418)
-20	1.250 (31.750)	1.3125-18 UNJEF	1.2599-1.2629 (32.001-32.078)	1.795 (45.593)	1.98 (50.292)
-24	1.500 (38.100)	1.625-18 UNJEF	1.5724-1.5754 (39.939-40.015)	2.045 (51.943)	2.23 (56.642)

BOSS DASH NO.	Ø C [2]	Ø D [1]	E	F
-02	.381- .384 (9.677- 9.754)	.254- .256 (6.452- 6.502)	.088- .098 (2.235-2.489)	.153- .158 (3.886-4.013)
-03	.448- .451 (11.379-11.455)	.286- .288 (7.264- 7.315)	.088- .098 (2.235-2.489)	.153- .158 (3.886-4.013)
-04	.495- .498 (12.573-12.649)	.339- .341 (8.611- 8.661)	.088- .098 (2.235-2.489)	.153- .158 (3.886-4.013)
-05	.601- .604 (15.265-15.342)	.401- .403 (10.185-10.236)	.088- .098 (2.235-2.489)	.153- .158 (3.886-4.013)
-06	.675- .678 (17.145-17.221)	.464- .466 (11.786-11.836)	.103- .113 (2.616-2.870)	.168- .173 (4.267-4.394)
-08	.784- .787 (19.914-19.990)	.582- .584 (14.783-14.834)	.103- .113 (2.616-2.870)	.168- .173 (4.267-4.394)
-10	1.015-1.018 (25.781-25.857)	.725- .727 (18.415-18.466)	.103- .113 (2.616-2.870)	.168- .173 (4.267-4.394)
-12	1.139-1.142 (28.931-29.007)	.899- .901 (22.835-22.885)	.103- .113 (2.616-2.870)	.168- .173 (4.267-4.394)
-14	1.311-1.314 (33.299-33.376)	1.030-1.032 (26.162-26.213)	.103- .113 (2.616-2.870)	.168- .173 (4.267-4.394)
-16	1.427-1.430 (36.246-36.322)	1.162-1.164 (29.515-29.566)	.103- .113 (2.616-2.870)	.168- .173 (4.267-4.394)
-20	1.750-1.753 (44.450-44.526)	1.387-1.389 (35.230-35.281)	.130- .140 (3.302-3.556)	.195- .200 (4.953-5.080)
-24	2.000-2.005 (50.80 -50.93)	1.664-1.666 (42.266-42.316)	.130- .140 (3.302-3.556)	.195- .200 (4.953-5.080)

BOSS DASH NO.	G	H MIN FULL THD DEPTH	J NO. OF TEETH	K MIN	PORTING TOOL NO.	BROACH TOOL NO.
-02	.296-.301 (7.52-7.65)	.507 (12.878)	24	.061 (1.549)	RFPT-02	RFOPB 5002
-03	.296-.301 (7.52-7.65)	.568 (14.427)	26	.061 (1.549)	RFPT-03	RFOPB 5003
-04	.296-.301 (7.52-7.65)	.568 (14.427)	30	.061 (1.549)	RFPT-04	RFOPB 5004
-05	.296-.301 (7.52-7.65)	.594 (15.088)	36	.061 (1.549)	RFPT-05	RFOPB 5005
-06	.311-.316 (7.90-8.03)	.631 (16.027)	36	.073 (1.854)	RFPT-06	RFOPB 5006
-08	.311-.316 (7.90-8.03)	.672 (17.069)	40	.073 (1.854)	RFPT-08	RFOPB 5008
-10	.311-.316 (7.90-8.03)	.693 (17.602)	38	.073 (1.854)	RFPT-10	RFOPB 5010
-12	.343-.348 (8.71-8.84)	.763 (19.380)	40	.073 (1.854)	RFPT-12	RFOPB 5012
-14	.343-.348 (8.71-8.84)	.800 (20.320)	50	.073 (1.854)	RFPT-14	RFOPB 5014
-16	.343-.348 (8.71-8.84)	.806 (20.472)	36	.073 (1.854)	RFPT-16CT	RFOPB 5016
-20	.375-.380 (9.52-9.65)	.838 (21.285)	56	.093 (2.362)	RFPT-20CT	RFOPB 5020
-24	.375-.380 (9.52-9.65)	.877 (22.276)	81	.093 (2.362)	RFPT-24CT	RFOPB 5024



PORT NUMBER	TUBE OD REF	T THREAD		A DIA MIN	B DIA MIN	C DIA	D DIA
		MIL-S-8879 CLASS-3B	CONTROLLED MINOR DIA				
AS1300-02	.125	.2160-28UNJF	.1827-.1857	.408	.50	.381-.384	.254-.256
AS1300-03	.188	.2500-28UNJF	.2167-.2197	.478	.62	.448-.451	.286-.288
AS1300-04	.250	.3125-24UNJF	.2734-.2764	.524	.68	.495-.498	.339-.341
AS1300-05	.312	.3750-24UNJF	.3359-.3389	.635	.79	.601-.604	.401-.403
AS1300-06	.375	.4375-20UNJF	.3903-.3933	.710	.85	.675-.678	.464-.466
AS1300-08	.500	.5625-18UNJF	.5099-.5129	.826	1.04	.784-.787	.582-.584
AS1300-10	.625	.6875-24UNJEF	.6484-.6514	1.052	1.17	1.015-1.018	.725-.727
AS1300-12	.750	.8125-20UNJEF	.7653-.7683	1.182	1.42	1.139-1.142	.899-.901
AS1300-14	.875	.9375-20UNJEF	.8903-.8933	1.354	1.54	1.311-1.314	1.030-1.032
AS1300-16	1.000	1.1250-18UNJEF	1.0714-1.0744	1.471	1.67	1.427-1.430	1.162-1.164
AS1300-20	1.250	1.3125-18UNJEF	1.2599-1.2629	1.795	1.98	1.750-1.753	1.387-1.389
AS1300-24	1.500	1.6250-18UNJEF	1.5724-1.5754	2.045	2.23	2.000-2.005	1.664-1.666
AS1300-32	2.000	2.1250-16UNJ	2.0627-2.0657	2.561	2.86	2.516-2.521	2.202-2.204

REAFFIRMED

APRIL 1993

Custodian: SAE G-3/G-3B

Procurement: MIL-F-18280

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

400 Commonwealth Drive
Warrendale, PA 15096

AEROSPACE STANDARD

PORT - RING LOCKED FLUID CONNECTION TYPE
STANDARD DIMENSIONS FOR

AS1300

SHEET 1 OF 2

ISSUED Aug. 1975 REVISED (A) Aug. 1988