

FEDERAL SUPPLY CLASS
4730

REV.
D

AS1037

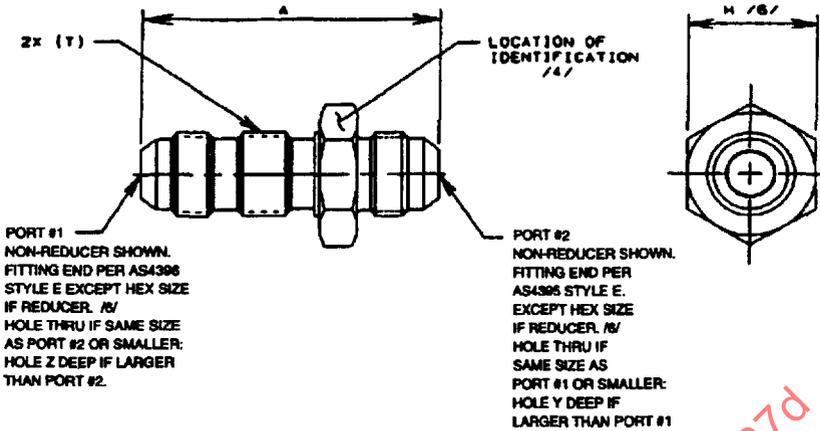
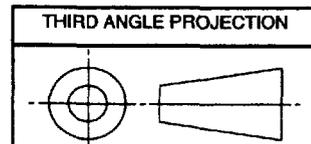


FIGURE 1 - NONREDUCER

(R) TABLE 1 - OVERALL LENGTH A

SIZE OF PORT #2	SIZE OF #1 PORT 02	SIZE OF #1 PORT 03	SIZE OF #1 PORT 04	SIZE OF #1 PORT 05	SIZE OF #1 PORT 06	SIZE OF #1 PORT 08	SIZE OF #1 PORT 10	SIZE OF #1 PORT 12	SIZE OF #1 PORT 16	SIZE OF #1 PORT 20	SIZE OF #1 PORT 24	SIZE OF #1 PORT 32
02	1.526	1.641	1.758	1.758	1.924	2.057	2.222	2.428	2.428	2.459	2.491	2.756
03	1.672	1.557	1.789	1.789	1.955	2.088	2.257	2.459	2.459	2.490	2.522	2.787
04	1.766	1.766	1.753	1.860	2.026	2.159	2.324	2.530	2.530	2.561	2.593	2.858
05	1.766	1.766	1.860	1.753	2.026	2.159	2.324	2.530	2.530	2.561	2.593	2.858
06	1.860	1.860	1.954	1.954	1.837	2.165	2.330	2.536	2.536	2.558	2.599	2.864
08	1.938	1.938	2.032	2.032	2.110	2.126	2.431	2.637	2.637	2.668	2.700	2.965
10	2.063	2.063	2.157	2.157	2.235	2.391	2.430	2.738	2.738	2.769	2.801	3.066
12	2.204	2.204	2.298	2.298	2.376	2.532	2.673	2.769	2.844	2.875	2.907	3.172
16	2.251	2.251	2.345	2.345	2.423	2.579	2.720	2.891	2.879	2.922	2.954	3.219
20	2.469	2.469	2.376	2.376	2.454	2.610	2.751	2.922	2.922	2.973	3.001	3.266
24	2.423	2.423	2.517	2.517	2.595	2.751	2.892	3.063	3.063	3.110	3.177	3.391
32	2.657	2.657	2.751	2.751	2.829	2.985	3.126	3.297	3.297	3.344	3.360	3.708

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CUSTODIAN: SAE G-3/G-3B

(R) PROCUREMENT SPECIFICATION: /3/ AS4841

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AEROSPACE STANDARD

UNION, STANDARD AND REDUCER,
BULKHEAD, FLARED TUBE

AS1037
SHEET 1 OF 4

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ISSUED 1982-08 REVISED 1996-11

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(R) TABLE 2 - HOLE DEPTH Y

SIZE OF PORT #1	SIZE OF PORT #2	SIZE OF PORT #4	SIZE OF PORT #5	SIZE OF PORT #6	SIZE OF PORT #8	SIZE OF PORT #10	SIZE OF PORT #12	SIZE OF PORT #16	SIZE OF PORT #20	SIZE OF PORT #24	SIZE OF PORT #32
02	.510	.581	.581	.587	.688	.789	.895	.942	.989	1.114	1.364
03	-	.581	.581	.587	.688	.789	.895	.942	.989	1.114	1.364
04	-	-	.581	.587	.688	.789	.895	.942	.989	1.114	1.364
05	-	-	-	.587	.688	.789	.895	.942	.989	1.114	1.364
06	-	-	-	-	.688	.789	.895	.942	.989	1.114	1.364
08	-	-	-	-	-	.789	.895	.942	.989	1.114	1.364
10	-	-	-	-	-	-	.895	.942	.989	1.114	1.364
12	-	-	-	-	-	-	-	.942	.989	1.114	1.364
16	-	-	-	-	-	-	-	-	.989	1.114	1.364
20	-	-	-	-	-	-	-	-	-	1.114	1.364
24	-	-	-	-	-	-	-	-	-	-	1.364

(R) TABLE 3 - HOLE DEPTH Z

SIZE OF PORT #2	SIZE OF PORT #3	SIZE OF PORT #4	SIZE OF PORT #5	SIZE OF PORT #6	SIZE OF PORT #8	SIZE OF PORT #10	SIZE OF PORT #12	SIZE OF PORT #16	SIZE OF PORT #20	SIZE OF PORT #24	SIZE OF PORT #32
02	.859	.953	.953	1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875
03	-	.953	.953	1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875
04	-	-	.953	1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875
05	-	-	-	1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875
06	-	-	-	-	1.219	1.360	1.531	1.532	1.578	1.968	1.875
08	-	-	-	-	-	1.360	1.531	1.532	1.578	1.968	1.875
10	-	-	-	-	-	-	1.531	1.532	1.578	1.968	1.875
12	-	-	-	-	-	-	-	1.532	1.578	1.968	1.875
16	-	-	-	-	-	-	-	-	1.578	1.968	1.875
20	-	-	-	-	-	-	-	-	-	1.968	1.875
24	-	-	-	-	-	-	-	-	-	-	1.875

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TABLE 4 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	(NOMINAL)	
	TUBE SIZE)	T THREAD PER MIL-S-8879
02	.125	.3125-24 UNJF
03	.188	.3750-24 UNJF
04	.250	.4375-20 UNJF
05	.312	.5000-20 UNJF
06	.375	.5625-18 UNJF
08	.500	.7500-16 UNJF
10	.625	.8750-14 UNJF
12	.750	1.0625-12 UNJ
16	1.000	1.3125-12 UNJ
20	1.250	1.6250-12 UNJ
24	1.500	1.8750-12 UNJ
32	2.000	2.5000-12 UNJ

TABLE 5 - HEX DIMENSION AND WEIGHTS

LARGEST PORT SIZE	H	LBS/EA	LBS/EA	LBS/EA
		MAX ALUM	MAX CRES	MAX TI
02	.559-.566	-	-	-
03	.621-.628	-	-	-
04	.684-.691	-	-	-
05	.746-.753	-	-	-
06	.809-.816	-	-	-
08	.996-1.003	-	-	-
10	1.121-1.128	-	-	-
12	1.371-1.378	-	-	-
16	1.609-1.641	-	-	-
20	1.859-1.891	-	-	-
24	2.105-2.145	-	-	-
32	2.730-2.770	-	-	-

NOTES:

/1/ MATERIAL:

- a. NO CODE LETTER - TYPE 1137 STEEL BAR PER ASTM A 108.
- b. CODE LETTER D - 2024-T6 ALUMINUM ALLOY BAR PER AMS 4112 OR QQ-A-225/6; OR 2024-T851 ALUMINUM ALLOY BAR PER QQ-A-225/6.
- c. CODE LETTER J - 30304 CORROSION RESISTANT STEEL BAR PER AMS 5639 OR 304 CORROSION RESISTANT STEEL BAR PER QQ-S-763.
- d. CODE LETTER K - 30316 CORROSION RESISTANT STEEL BAR PER AMS 5648 OR 316 CORROSION RESISTANT STEEL BAR PER QQ-S-763.
- e. CODE LETTER S - 30347 CORROSION RESISTANT STEEL BAR PER AMS 5646 OR 347 CORROSION RESISTANT STEEL BAR PER QQ-S-763.
- f. CODE LETTER T - 6AL4V TITANIUM ALLOY BAR PER AMS 4928.
- g. CODE LETTER W - 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124; OR 7075-T73 ALUMINUM ALLOY BAR PER QQ-A-225/9.

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