

RATIONALE

TAPER DIMENSION ON BODY HEX FACES REVISED TO COINCIDE WITH CURRENT DIMENSIONS SPECIFIED ON DESIGN STANDARD, AS4395. "INACTIVE" REPLACED BY "NOT RECOMMENDED." CLASSES 3A AND 3B ADDED TO TABLE 1 HEADING FOR THE THREADS. NEW DIMENSION L ADDED TO ALLOCATE OF TAPER DIMENSION OF BODY HEX TO TABLE 2. MATERIAL CODE LETTER R, CRES 321, INTRODUCED AS AN OPTIONAL MATERIAL. FINISH FOR MATERIAL CODE LETTER R BEING INTRODUCED. PROCUREMENT SPECIFICATION NOTE UPDATED TO CURRENT QML VERBIAGE. UPDATED SPECIFICATION CALLOUTS FROM MIL-A-8625 TO MIL-PRF-8625 AND ARP4296 TO AS4296. NOTE /16/ REVISED TO REFLECT OPTIONAL DRY FILM CODE LETTER N CALLOUT FOR SWIVEL NUT. RECOMMENDATION USAGE NOTE FOR ALUMINUM IN NOTE /17/ REVISED. NEW USAGE RECOMMENDATION FOR MATERIAL 347 ADDED TO NOTE /17/. INVENTORY DISPOSITION NOTE 18 ADDED.

REV. B
AS4405™

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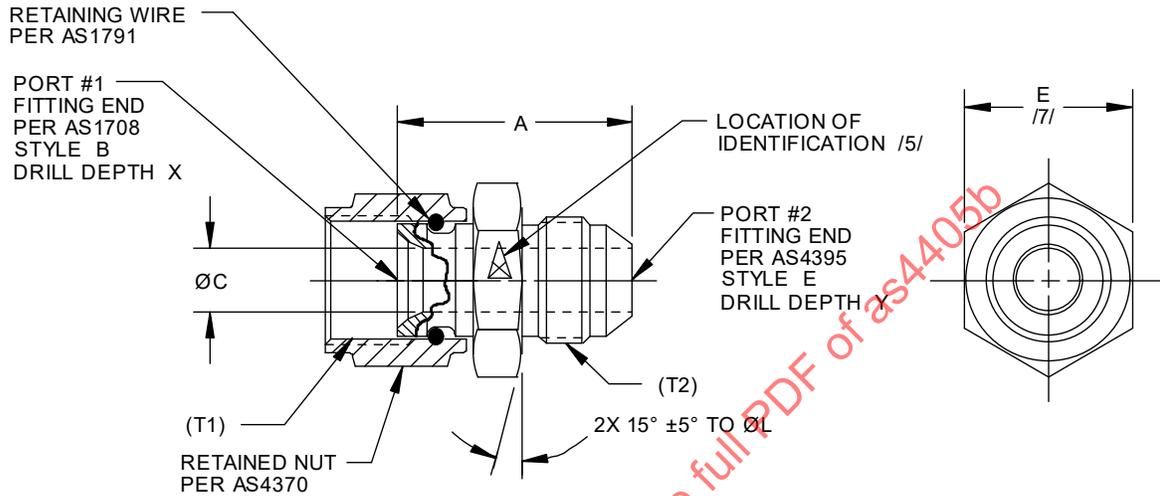


FIGURE 1 - FITTING ASSEMBLY, ADAPTER

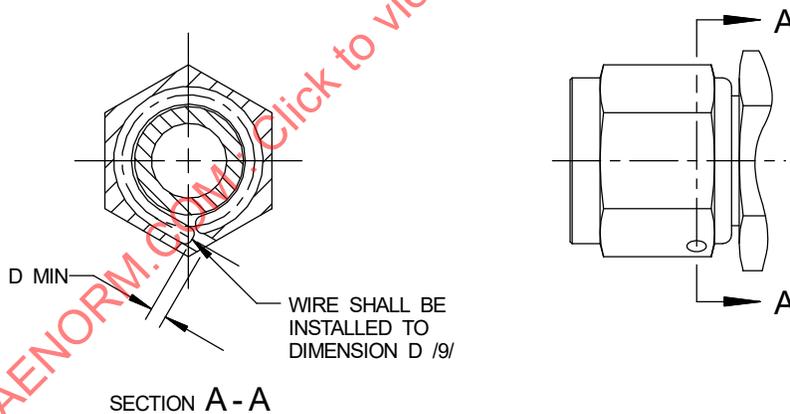
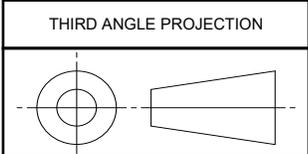


FIGURE 2 - INSTALLATION, RETAINED NUT AND RETAINING WIRE

NOT RECOMMENDED IN PART /17/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS4405B/>



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /4/



AEROSPACE STANDARD

FITTING ASSEMBLY, ADAPTER,
REDUCER AND NONREDUCER,
INTERNAL FLARE TO FLARED TUBE

AS4405™
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TABLE 1 - OVERALL LENGTH A

SIZE OF PORT #2	SIZE OF PORT #1 02	SIZE OF PORT #1 03	SIZE OF PORT #1 04	SIZE OF PORT #1 05	SIZE OF PORT #1 06	SIZE OF PORT #1 08	SIZE OF PORT #1 10	SIZE OF PORT #1 12	SIZE OF PORT #1 16	SIZE OF PORT #1 20	SIZE OF PORT #1 24	SIZE OF PORT #1 32
02	.877	.889	.906	.962	1.002	1.082	1.148	1.166	1.254	1.383	1.462	1.690
03	.917	.920	.937	.993	1.033	1.113	1.179	1.197	1.285	1.414	1.493	1.721
04	.997	1.000	1.008	1.064	1.104	1.184	1.250	1.268	1.356	1.485	1.564	1.792
05	1.006	1.009	1.017	1.064	1.104	1.184	1.250	1.268	1.356	1.485	1.564	1.792
06	1.021	1.024	1.032	1.079	1.110	1.190	1.256	1.274	1.362	1.491	1.570	1.798
08	1.140	1.143	1.151	1.198	1.229	1.291	1.357	1.375	1.463	1.592	1.671	1.899
10	1.259	1.262	1.270	1.317	1.348	1.410	1.458	1.476	1.564	1.693	1.772	2.000
12	1.383	1.386	1.394	1.441	1.472	1.534	1.582	1.582	1.670	1.799	1.878	2.106
16	1.466	1.469	1.477	1.524	1.555	1.617	1.665	1.665	1.717	1.846	1.925	2.153
20	1.549	1.552	1.560	1.607	1.638	1.700	1.748	1.748	1.800	1.893	1.972	2.200
24	1.710	1.713	1.721	1.768	1.799	1.861	1.909	1.909	1.961	2.054	2.097	2.325
32	2.032	2.035	2.043	2.090	2.121	2.183	2.231	2.231	2.283	2.376	2.419	2.575

TABLE 2 - DIMENSIONS C-L AND WEIGHTS

BASIC NO. AS4405 /16/ SIZE CODE	(NOMINAL TUBE SIZE)	T1, T2 THREAD PER AS8879 CLASS 3B, 3A	C	D	E	L ±.010	LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
02	.125	.3125-24 UNJF	.058-.065	.045	.552-.565	.542	.018	.051	.029
03	.188	.3750-24 UNJF	.121-.128	.045	.615-.628	.605	.021	.062	.036
04	.250	.4375-20 UNJF	.168-.175	.045	.678-.691	.668	.024	.071	.041
05	.312	.5000-20 UNJF	.230-.237	.045	.740-.753	.730	.028	.081	.046
06	.375	.5625-18 UNJF	.293-.301	.045	.802-.815	.792	.041	.120	.069
08	.500	.7500-16 UNJF	.387-.395	.055	.990-1.003	.980	.073	.211	.121
10	.625	.8750-14 UNJF	.480-.488	.063	1.113-1.128	1.103	.105	.303	.174
12	.750	1.0625-12 UNJ	.604-.614	.095	1.363-1.380	1.353	.179	.520	.298
16	1.000	1.3125-12 UNJ	.839-.851	.125	1.613-1.630	1.603	.248	.719	.412
20	1.250	1.6250-12 UNJ	1.073-1.086	.155	1.863-1.880	1.853	.438	1.269	.727
24	1.500	1.8750-12 UNJ	1.307-1.320	.180	2.109-2.135	2.099	.586	1.700	.974
32	2.000	2.5000-12 UNJ	1.776-1.791	.180	2.734-2.760	2.724	1.117	3.240	1.856

TABLE 3 - DRILL DEPTH X

SIZE OF PORT #2	SIZE OF PORT #1 02	SIZE OF PORT #1 03	SIZE OF PORT #1 04	SIZE OF PORT #1 05	SIZE OF PORT #1 06	SIZE OF PORT #1 08	SIZE OF PORT #1 10	SIZE OF PORT #1 12	SIZE OF PORT #1 16	SIZE OF PORT #1 20	SIZE OF PORT #1 24	SIZE OF PORT #1 32
02	THRU	.301	.305	.343	.364	.417	.456	.437	.457	.518	.529	.620
03	--	THRU	.323	.361	.383	.436	.475	.456	.475	.536	.547	.639
04	--	--	THRU	.373	.394	.447	.486	.467	.486	.547	.558	.650
05	--	--	--	THRU	.412	.465	.504	.485	.504	.565	.576	.668
06	--	--	--	--	THRU	.488	.527	.508	.528	.588	.600	.691
08	--	--	--	--	--	THRU	.512	.493	.513	.574	.585	.676
10	--	--	--	--	--	--	THRU	.510	.530	.591	.602	.693
12	--	--	--	--	--	--	--	THRU	.544	.605	.616	.707
16	--	--	--	--	--	--	--	--	THRU	.667	.678	.769
20	--	--	--	--	--	--	--	--	--	THRU	.707	.799
24	--	--	--	--	--	--	--	--	--	--	THRU	.859
32	--	--	--	--	--	--	--	--	--	--	--	THRU

TABLE 4 - DRILL DEPTH Y

SIZE OF PORT #2	SIZE OF PORT #1 02	SIZE OF PORT #1 03	SIZE OF PORT #1 04	SIZE OF PORT #1 05	SIZE OF PORT #1 06	SIZE OF PORT #1 08	SIZE OF PORT #1 10	SIZE OF PORT #1 12	SIZE OF PORT #1 16	SIZE OF PORT #1 20	SIZE OF PORT #1 24
03	.473	--	--	--	--	--	--	--	--	--	--
04	.540	.558	--	--	--	--	--	--	--	--	--
05	.531	.549	.561	--	--	--	--	--	--	--	--
06	.527	.546	.557	.575	--	--	--	--	--	--	--
08	.619	.638	.649	.667	.690	--	--	--	--	--	--
10	.711	.730	.741	.759	.782	.767	--	--	--	--	--
12	.798	.817	.831	.846	.869	.854	.871	--	--	--	--
16	.813	.831	.842	.860	.884	.869	.886	.900	--	--	--
20	.827	.846	.857	.875	.898	.884	.901	.915	.997	--	--
24	.921	.939	.950	.968	.991	.977	.994	1.008	1.070	1.100	--
32	1.106	1.125	1.136	1.154	1.177	1.162	1.179	1.193	1.255	1.285	1.345

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

/1/ MATERIAL:

a. DASH AS CODE LETTER:

- (1) BODY: TYPE 4130 STEEL BAR PER AMS-S-6758 OR AMS6370.
- (2) NUT: DASH AS CODE LETTER OF AS4370 (TYPE 4130 STEEL).
- (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).

b. CODE LETTER D /17/:

- (1) BODY: TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6; OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339.
- (2) NUT: CODE LETTER D OF AS4370 (TYPE 2024 ALUMINUM ALLOY).
- (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).

c. CODE LETTER J:

- (1) BODY: TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS5639 OR AMS-QQ-S-763.
- (2) NUT: CODE LETTER J OF AS4370 (TYPE 304 CORROSION RESISTANT STEEL).
- (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).

d. CODE LETTER K:

- (1) BODY: TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS5648 OR AMS-QQ-S-763.
- (2) NUT: CODE LETTER K OF AS4370 (TYPE 316 CORROSION RESISTANT STEEL).
- (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).

e. CODE LETTER R:

- (1) BODY: TYPE 321 CORROSION RESISTANT STEEL BAR PER AMS5645 OR AMS-QQ-S-763.
- (2) NUT: CODE LETTER R OF AS4370 (TYPE 321 CORROSION RESISTANT STEEL).
- (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).

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- f. CODE LETTER S:
- (1) BODY: TYPE 347 CORROSION RESISTANT STEEL BAR PER AMS5646 OR AMS-QQ-S-763.
 - (2) NUT: CODE LETTER S OF AS4370 (TYPE 347 CORROSION RESISTANT STEEL).
 - (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).
- g. CODE LETTER T:
- (1) BODY: TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928.
 - (2) NUT: CODE LETTER T OF AS4370 (TYPE 6AL-4V TITANIUM ALLOY).
 - (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).
- h. CODE LETTER W:
- (1) BODY: TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124; OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9.
 - (2) NUT: CODE LETTER W OF AS4370 (TYPE 7075 ALUMINUM ALLOY).
 - (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL).
2. HEAT TREATMENT PER PROCUREMENT SPECIFICATION.
3. FINISH:
- a. DASH AS MATERIAL CODE LETTER:
- (1) BODY: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK.
 - (2) NUT: DASH AS MATERIAL CODE LETTER OF AS4370 (CADMIUM PLATE, DYED BLACK).
 - (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT).
- b. MATERIAL CODE LETTER D:
- (1) BODY: ANODIZE PER AMS2472 OR MIL-PRF-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL.
 - (2) NUT: MATERIAL CODE LETTER D OF AS4370 (ANODIC COATING, DYE BLUE).
 - (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT).
- c. MATERIAL CODE LETTER J:
- (1) BODY: PASSIVATE PER AMS2700, TYPE 6 OR TYPE 7.
 - (2) NUT: MATERIAL CODE LETTER J OF AS4370 (PASSIVATED).
 - (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT).
- d. MATERIAL CODE LETTER K:
- (1) BODY: PASSIVATE PER AMS2700, TYPE 6 OR TYPE 7.
 - (2) NUT: MATERIAL CODE LETTER K OF AS4370 (PASSIVATED)
 - (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT).
- e. MATERIAL CODE LETTER R:
- (1) BODY: PASSIVATE PER AMS2700, TYPE 6 OR TYPE 7.
 - (2) NUT: MATERIAL CODE LETTER R OF AS4370 (PASSIVATED).
 - (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT).

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