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AS4407™

RATIONALE

FEDERAL SUPPLY CLASS
4730

"FORGING" ADDED TO TITANIUM MATERIAL OPTION. REPLACE "INACTIVE FOR NEW DESIGN" BY "NOT RECOMMENDED FOR NEW DESIGN," HEAT TREATMENT NOTE EXPANDED TO SPECIFY ELECTRICAL CONDUCTIVITY REQUIREMENTS. UPDATED QML NOTE NOTE 19 ADDED.

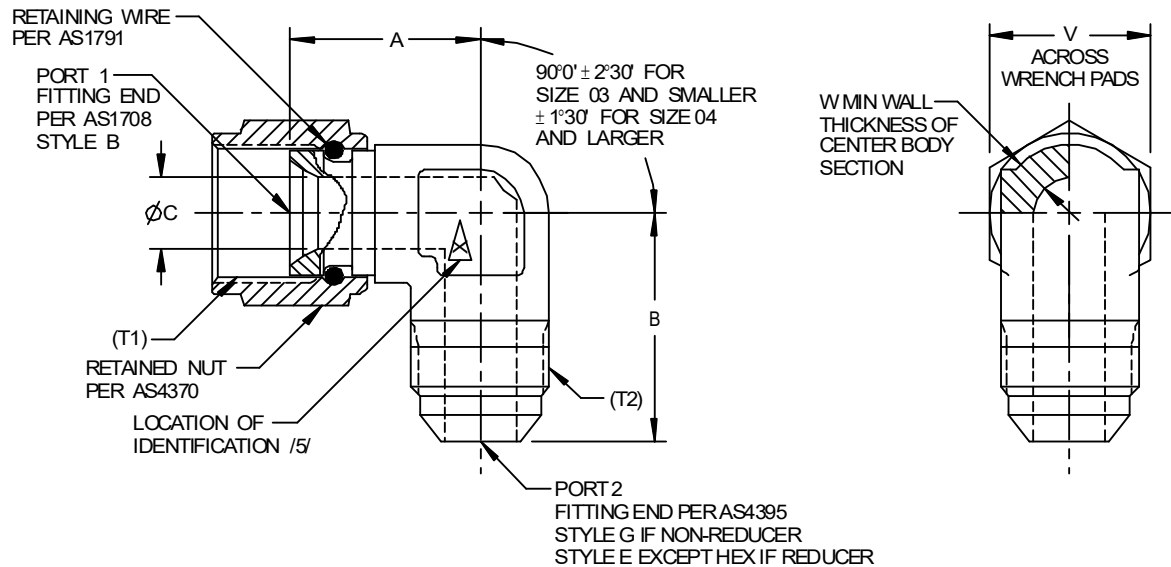


FIGURE 1 - FITTING ASSEMBLY, ELBOW 90°

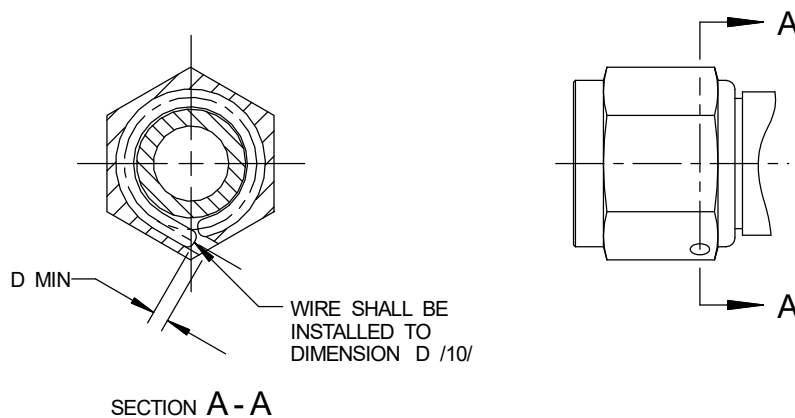
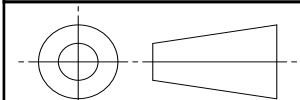


FIGURE 2 - INSTALLATION, RETAINED NUT AND RETAINING WIRE

NOT RECOMMENDED IN PART /18/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS4407B/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /4/



AEROSPACE STANDARD

FITTING ASSEMBLY, ELBOW 90°, REDUCER AND
NONREDUCER, INTERNAL FLARE TO FLARED TUBE

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TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS4407 /17/ SIZE CODE	(NOMINAL TUBE SIZE)	T1, T2 THREAD PER AS8879	C	D	V	W	LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
02	.125	.3125-24 UNJF	.058- .065	.045	.297- .314	.090	.017	.049	.028
03	.188	.3750-24 UNJF	.121- .128	.045	.360- .377	.100	.023	.067	.038
04	.250	.4375-20 UNJF	.168- .175	.045	.423- .440	.110	.030	.086	.049
05	.312	.5000-20 UNJF	.230- .237	.045	.485- .502	.120	.034	.098	.056
06	.375	.5625-18 UNJF	.293- .301	.045	.547- .565	.120	.051	.147	.084
08	.500	.7500-16 UNJF	.387- .395	.055	.735- .753	.150	.092	.268	.154
10	.625	.8750-14 UNJF	.480- .488	.063	.860- .878	.170	.141	.409	.234
12	.750	1.0625-12 UNJ	.604- .614	.095	1.047-1.065	.185	.235	.681	.390
16	1.000	1.3125-12 UNJ	.839- .851	.125	1.292-1.317	.205	.386	1.120	.641
20	1.250	1.6250-12 UNJ	1.073-1.086	.155	1.605-1.630	.240	.661	1.920	1.099
24	1.500	1.8750-12 UNJ	1.307-1.320	.180	1.855-1.880	.250	.878	2.550	1.461
32	2.000	2.5000-12 UNJ	1.776-1.791	.180	2.542-2.572	.350	1.151	3.340	1.913

TABLE 2 - LEG LENGTH A

SIZE OF PORT #1	FORG. SIZE /8/ 02	FORG. SIZE /8/ 03	FORG. SIZE /8/ 04	FORG. SIZE /8/ 05	FORG. SIZE /8/ 06	FORG. SIZE /8/ 08	FORG. SIZE /8/ 10	FORG. SIZE /8/ 12	FORG. SIZE /8/ 16	FORG. SIZE /8/ 20	FORG. SIZE /8/ 24	FORG. SIZE /8/ 32
02	.658	.686	.743	.767	.884	.924	1.100	1.157	1.268	1.521	1.521	2.031
03	--	.672	.555	.587	.649	.743	.838	.931	1.056	1.213	1.338	2.015
04	--	--	.602	.633	.695	.789	.883	.976	1.101	1.258	1.383	1.890
05	--	--	--	.675	.737	.831	.925	1.018	1.143	1.300	1.425	1.937
06	--	--	--	--	.821	.915	1.009	1.102	1.227	1.384	1.509	1.968
08	--	--	--	--	--	1.023	1.117	1.210	1.334	1.491	1.616	2.130
10	--	--	--	--	--	--	1.167	1.260	1.383	1.540	1.665	2.098
12	--	--	--	--	--	--	--	1.224	1.348	1.505	1.630	2.098
16	--	--	--	--	--	--	--	--	1.387	1.524	1.649	2.150
20	--	--	--	--	--	--	--	--	--	1.571	1.696	2.243
24	--	--	--	--	--	--	--	--	--	--	1.776	2.286
32	--	--	--	--	--	--	--	--	--	--	--	2.442

TABLE 3 - LEG LENGTH B

SIZE OF PORT #2	FORG. SIZE /8/ 02	FORG. SIZE /8/ 03	FORG. SIZE /8/ 04	FORG. SIZE /8/ 05	FORG. SIZE /8/ 06	FORG. SIZE /8/ 08	FORG. SIZE /8/ 10	FORG. SIZE /8/ 12	FORG. SIZE /8/ 16	FORG. SIZE /8/ 20	FORG. SIZE /8/ 24	FORG. SIZE /8/ 32
02	.757	.789	.789	.843	.946	1.033	1.135	1.232	1.341	1.544	1.685	2.169
03	--	.820	.811	.874	.977	1.064	1.166	1.263	1.372	1.575	1.716	2.200
04	--	--	.882	.945	1.048	1.135	1.237	1.334	1.443	1.646	1.787	2.271
05	--	--	--	.945	1.048	1.135	1.237	1.334	1.443	1.646	1.787	2.271
06	--	--	--	--	1.054	1.141	1.243	1.340	1.449	1.652	1.793	2.277
08	--	--	--	--	--	1.242	1.344	1.441	1.555	1.753	1.894	2.378
10	--	--	--	--	--	--	1.445	1.542	1.651	1.854	1.995	2.479
12	--	--	--	--	--	--	--	1.648	1.757	1.960	2.101	2.585
16	--	--	--	--	--	--	--	--	1.804	2.007	2.148	2.632
20	--	--	--	--	--	--	--	--	--	2.054	2.195	2.679
24	--	--	--	--	--	--	--	--	--	--	2.320	2.804
32	--	--	--	--	--	--	--	--	--	--	--	3.054



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