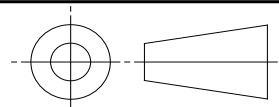


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REV. D	FEDERAL SUPPLY CLASS 4730	
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For more information on this standard, visit https://www.sae.org/standards/content/AS1656D/		THIRD ANGLE PROJECTION 
CUSTODIAN: G-3/G-3A		PROCUREMENT SPECIFICATION: NONE /1/
	AEROSPACE STANDARD FITTING END, THREADLESS - FLEXIBLE, FIXED CAVITY, SELF-BONDING, MALE AND FEMALE DESIGN STANDARD	AS1656™ REV. D

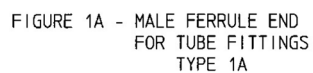


TABLE 1 - MALE FERRULE DIMENSIONS /3/ /4/

BASIC NO. AS1656-1 /11/ SIZE CODE	NOM TUBE SIZE REF	A ±.003	B ±.003	C	D MACH END ±.0025	D CAST END	E	F ±.002	G ±.002	V	W MAX
05	.312	.479	.406	.125	.0375	.050	.090	.375	.476	.010-.025	.317
06	.375	.541	.468	.125	.0375	.050	.090	.437	.538	.010-.025	.379
08	.500	.686	.622	.130	.0375	.050	.090	.581	.682	.010-.025	.523
10	.625	.811	.747	.130	.0375	.050	.090	.706	.807	.010-.025	.648
12	.750	.991	.887	.165	.0425	.065	.125	.838	.987	.020-.040	.782
16	1.000	1.267	1.139	.205	.0425	.065	.165	1.060	1.263	.020-.040	.992
20	1.250	1.517	1.389	.205	.0425	.065	.165	1.310	1.513	.020-.040	1.252
24	1.500	1.787	1.639	.205	.0425	.065	.165	1.580	1.783	.020-.040	1.519
28	1.750	2.037	1.889	.205	.0425	.065	.165	1.830	2.033	.020-.040	1.769
32	2.000	2.310	2.142	.205	.0575	.080	.165	2.093	2.306	.020-.040	2.032
36	2.250	2.560	2.392	.205	.0575	.080	.165	2.345	2.556	.020-.040	2.282
40	2.500	2.810	2.642	.205	.0575	.080	.165	2.593	2.806	.020-.040	2.527
48	3.000	3.310	3.142	.205	.0575	.080	.165	3.093	3.306	.020-.040	3.025
56	3.500	3.822	3.642	.205	.0575	.080	.165	3.605	3.818	.020-.040	3.528
64	4.000	4.328	4.151	.205	.0725	.095	.165	4.114	4.324	.020-.040	4.037

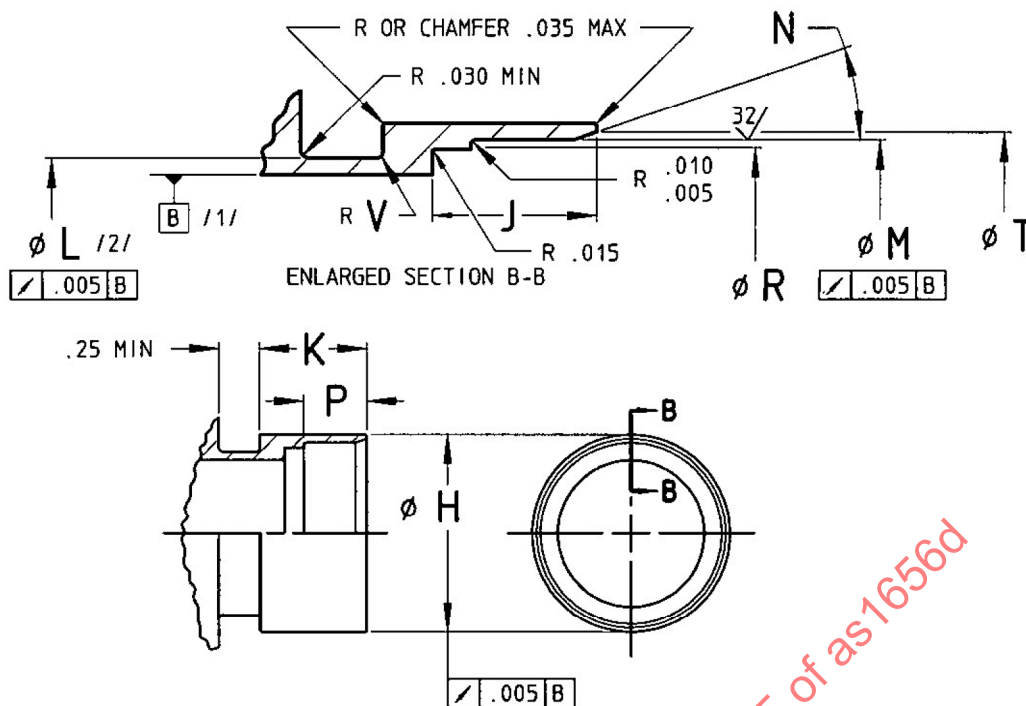


FIGURE 2 - FEMALE FERRULE

TABLE 2 - FEMALE FERRULE DIMENSIONS / 3 / 4 /

BASIC NO. AS1656-2 / 11 /	NOM TUBE SIZE	H	J	K	L	M	N	P	R	T	V
SIZE CODE	REF	$\pm .004$	$\pm .010$	$\pm .003$	$\pm .003$	$\pm .002$	$\pm 2^\circ$	$\pm .010$			
05	.312	.555	.461	.588	.406	.485	35	.428	.445	.514	.010-.025
06	.375	.617	.461	.588	.468	.547	35	.428	.507	.576	.010-.025
08	.500	.762	.471	.598	.622	.692	35	.433	.652	.721	.010-.025
10	.625	.887	.471	.598	.747	.817	35	.433	.777	.846	.010-.025
12	.750	1.067	.551	.678	.887	.997	35	.473	.957	1.026	.020-.040
16	1.000	1.343	.631	.758	1.139	1.273	30	.513	1.233	1.305	.020-.040
20	1.250	1.593	.631	.758	1.389	1.523	30	.513	1.483	1.555	.020-.040
24	1.500	1.863	.631	.758	1.639	1.793	30	.513	1.753	1.825	.020-.040
28	1.750	2.114	.631	.758	1.889	2.044	30	.513	2.004	2.076	.020-.040
32	2.000	2.387	.661	.788	2.142	2.317	30	.528	2.277	2.349	.020-.040
36	2.250	2.637	.661	.788	2.392	2.567	30	.528	2.527	2.599	.020-.040
40	2.500	2.887	.661	.788	2.642	2.817	30	.528	2.777	2.849	.020-.040
48	3.000	3.387	.661	.788	3.142	3.317	30	.528	3.277	3.349	.020-.040
56	3.500	3.901	.661	.788	3.642	3.831	30	.528	3.791	3.863	.020-.040
64	4.000	4.407	.661	.788	4.151	4.337	30	.543	4.297	4.369	.020-.040

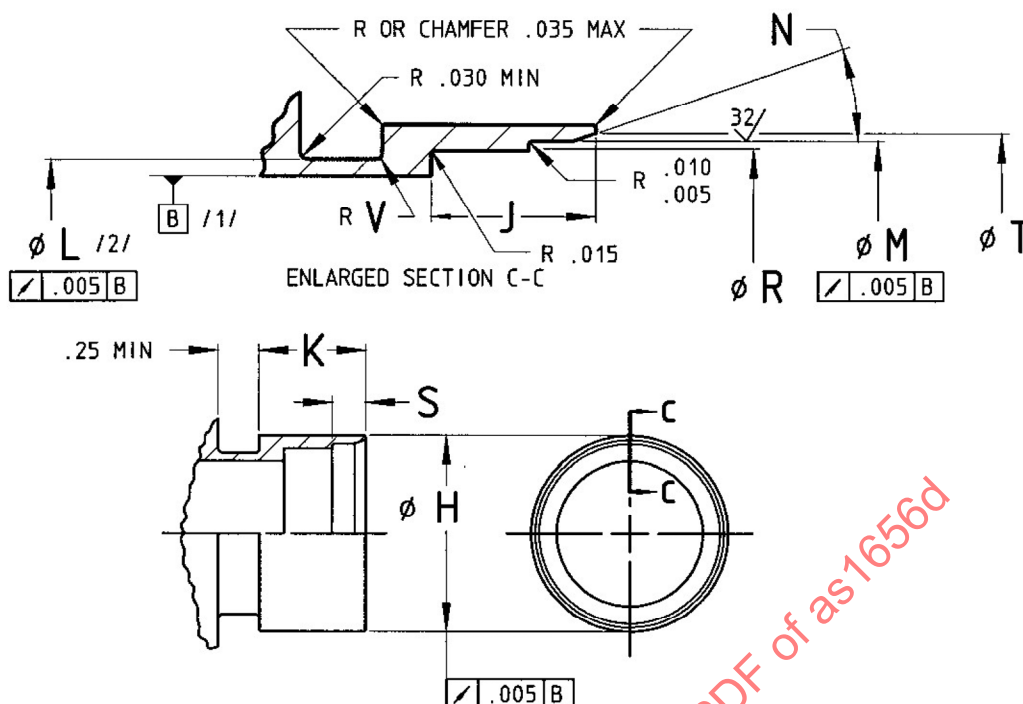


FIGURE 3 - FEMALE FERRULE (FOR HOSE ENDS ONLY)

TABLE 3 - FEMALE FERRULE DIMENSIONS FOR HOSE ENDS /3/ /4/

BASIC NO. AS1656-3 /11/ SIZE CODE	NOM TUBE SIZE REF	H $\pm .004$	J $\pm .010$	K $\pm .003$	L $\pm .003$	M $\pm .002$	N $\pm 2^\circ$	R	S $\pm .010$	T	V
05	.312	.555	.461	.588	.406	.485	35	.445	.178	.514	.010-.025
06	.375	.617	.461	.588	.468	.547	35	.507	.178	.576	.010-.025
08	.500	.762	.471	.598	.622	.692	35	.652	.183	.721	.010-.025
10	.625	.887	.471	.598	.747	.817	35	.777	.183	.846	.010-.025
12	.750	1.067	.551	.678	.887	.997	35	.957	.233	1.026	.020-.040
16	1.000	1.343	.631	.758	1.139	1.273	30	1.233	.273	1.305	.020-.040
20	1.250	1.593	.631	.758	1.389	1.523	30	1.483	.273	1.555	.020-.040
24	1.500	1.863	.631	.758	1.639	1.793	30	1.753	.273	1.825	.020-.040
28	1.750	2.114	.631	.758	1.889	2.044	30	2.004	.273	2.076	.020-.040
32	2.000	2.387	.661	.788	2.142	2.317	30	2.277	.288	2.349	.020-.040
36	2.250	2.637	.661	.788	2.392	2.567	30	2.527	.288	2.599	.020-.040
40	2.500	2.887	.661	.788	2.642	2.817	30	2.777	.288	2.849	.020-.040
48	3.000	3.387	.661	.788	3.142	3.317	30	3.277	.288	3.349	.020-.040
56	3.500	3.901	.661	.788	3.642	3.831	30	3.791	.288	3.863	.020-.040
64	4.000	4.407	.661	.788	4.151	4.337	30	4.297	.303	4.369	.020-.040