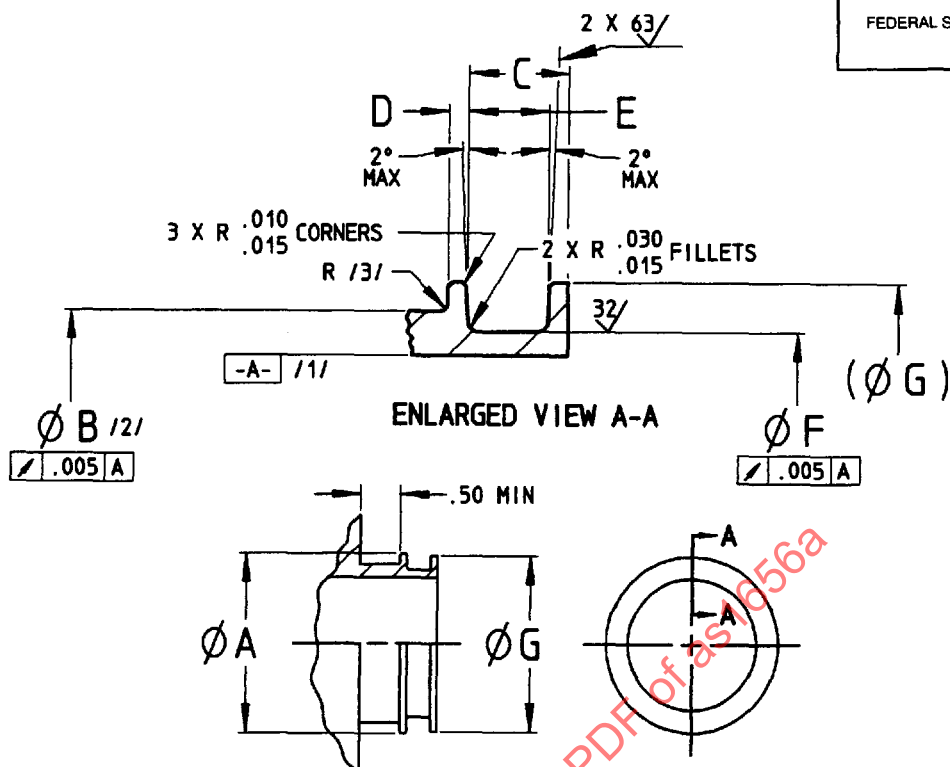


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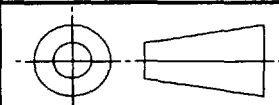


(R) FIGURE 1 - FERRULE END

(R) TABLE 1 - FERRULE END DIMENSIONS /4/

BASIC NUMBER AS1656-1 SIZE CODE	TUBE SIZE (REF)	A ±.003	B ±.003	C ±.005	D MACH END ±.0025	D CAST END ±.005	E ±.005	F ±.002	G ±.002
-05	.312	.479	.406	.125	.0375	.050	.090	.375	.476
-06	.375	.541	.468	.125	.0375	.050	.090	.437	.538
-08	.500	.686	.622	.130	.0375	.050	.090	.581	.682
-10	.625	.811	.747	.130	.0375	.050	.090	.706	.807
-12	.750	.991	.887	.165	.0425	.065	.125	.838	.987
-16	1.000	1.267	1.139	.205	.0425	.065	.165	1.060	1.263
-20	1.250	1.517	1.389	.205	.0425	.065	.165	1.310	1.513
-24	1.500	1.787	1.639	.205	.0425	.065	.165	1.580	1.783
-28	1.750	2.037	1.889	.205	.0425	.065	.165	1.830	2.033
-32	2.000	2.310	2.142	.205	.0575	.080	.165	2.093	2.306
-36	2.250	2.560	2.392	.205	.0575	.080	.165	2.345	2.556
-40	2.500	2.810	2.642	.205	.0575	.080	.165	2.593	2.806
-48	3.000	3.310	3.142	.205	.0575	.080	.165	3.093	3.306
-56	3.500	3.822	3.642	.205	.0575	.080	.165	3.605	3.818
-64	4.000	4.328	4.151	.205	.0725	.095	.165	4.114	4.324

THIRD ANGLE PROJECTION



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FITTING END, THREADLESS COUPLING -
FERRULE OR SLEEVE, DESIGN STANDARD

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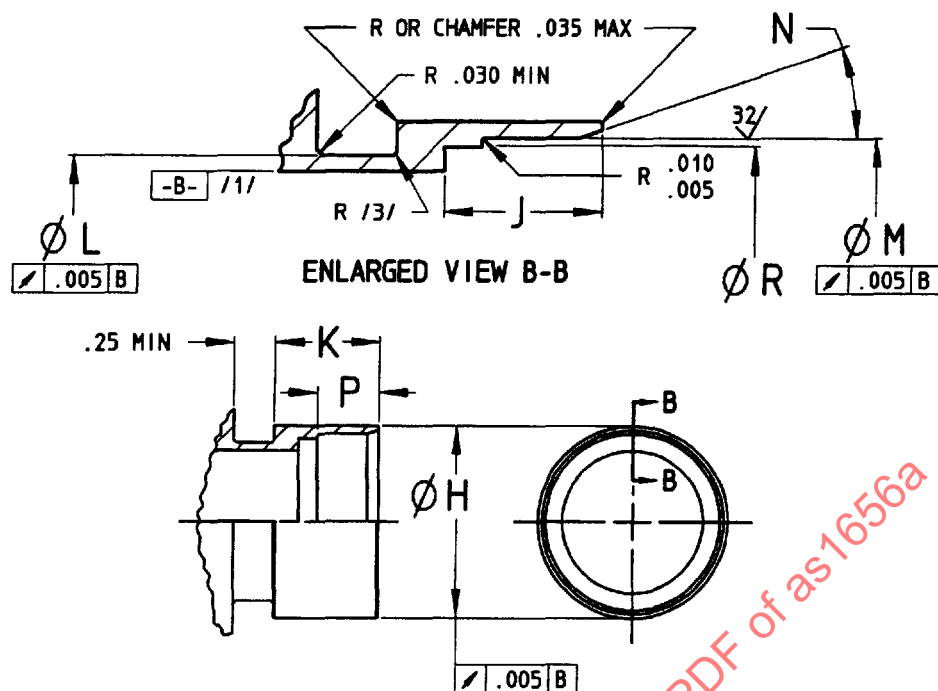
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(R) FIGURE 2 - SLEEVE END

(R) TABLE 2 - SLEEVE END DIMENSIONS /4/

BASIC NUMBER AS1656-2 SIZE CODE	TUBE SIZE (REF)	H ±.004	J ±.010	K ±.003	L ±.003	M ±.002	N ±2°	P ±.010	R ±.005
-05	.312	.555	.461	.588	.406	.485	35	.428	.445
-06	.375	.617	.461	.588	.468	.547	35	.428	.507
-08	.500	.762	.471	.598	.622	.692	35	.433	.652
-10	.625	.887	.471	.598	.747	.817	35	.433	.777
-12	.750	1.067	.551	.678	.887	.997	35	.473	.957
-16	1.000	1.343	.631	.758	1.139	1.273	30	.513	1.233
-20	1.250	1.593	.631	.758	1.389	1.523	30	.513	1.483
-24	1.500	1.863	.631	.758	1.639	1.793	30	.513	1.753
-28	1.750	2.114	.631	.758	1.889	2.044	30	.513	2.004
-32	2.000	2.387	.661	.788	2.142	2.317	30	.528	2.277
-36	2.250	2.637	.661	.788	2.392	2.567	30	.528	2.527
-40	2.500	2.887	.661	.788	2.642	2.817	30	.528	2.777
-48	3.000	3.387	.661	.788	3.142	3.317	30	.528	3.277
-56	3.500	3.901	.661	.788	3.642	3.831	30	.528	3.791
-64	4.000	4.407	.661	.788	4.151	4.337	30	.543	4.297

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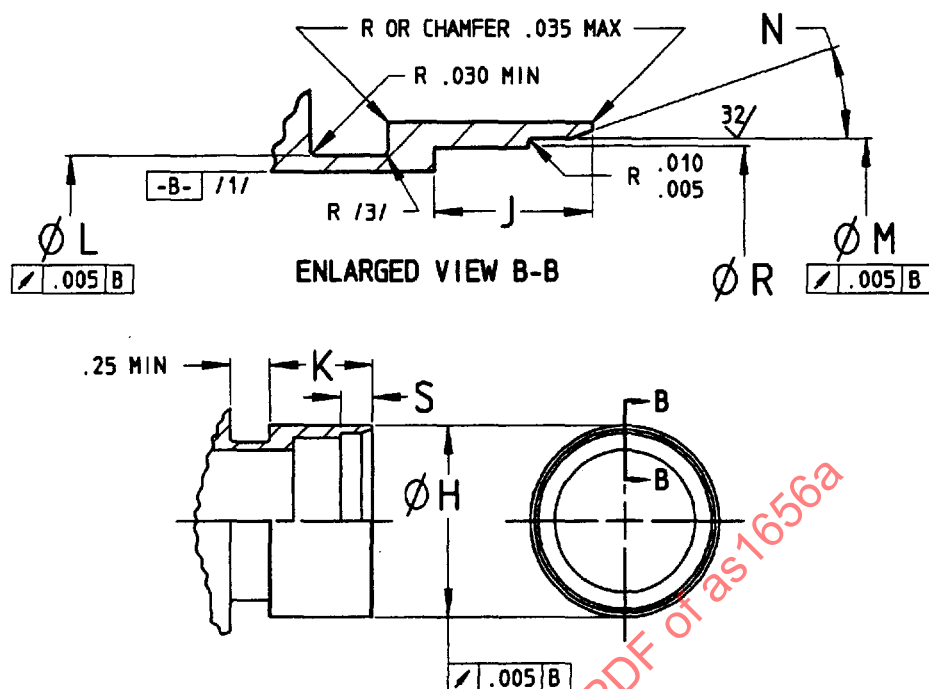


FIGURE 3 - SLEEVE END (FOR HOSE ENDS ONLY)

TABLE 3 - SLEEVE END DIMENSIONS FOR HOSE ENDS /4/

BASIC NUMBER AS1656-3 SIZE CODE	TUBE SIZE (REF)	H ±.004	J ±.010	K ±.003	L ±.003	M ±.002	N ±2°	R ±.005	S ±.010
-05	.312	.555	.461	.588	.406	.485	35	.445	.178
-06	.375	.617	.461	.588	.468	.547	35	.507	.178
-08	.500	.762	.471	.598	.622	.692	35	.652	.183
-10	.625	.887	.471	.598	.747	.817	35	.777	.183
-12	.750	1.067	.551	.678	.887	.997	35	.957	.233
-16	1.000	1.343	.631	.758	1.139	1.273	30	1.233	.273
-20	1.250	1.593	.631	.758	1.389	1.523	30	1.483	.273
-24	1.500	1.863	.631	.758	1.639	1.793	30	1.753	.273
-28	1.750	2.114	.631	.758	1.889	2.044	30	2.004	.273
-32	2.000	2.387	.661	.788	2.142	2.317	30	2.277	.288
-36	2.250	2.637	.661	.788	2.392	2.567	30	2.527	.288
-40	2.500	2.887	.661	.788	2.642	2.817	30	2.777	.288
-48	3.000	3.387	.661	.788	3.142	3.317	30	3.277	.288
-56	3.500	3.901	.661	.788	3.642	3.831	30	3.791	.288
-64	4.000	4.407	.661	.788	4.151	4.337	30	4.297	.303

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