

AS5977

RATIONALE

FEDERAL SUPPLY CLASS
4730

THIS STANDARD WAS PREPARED TO PROVIDE AN ENVELOPE REQUIREMENTS FOR AN AXIALLY SWAGED, FIELD ATTACHABLE, 5000 PSI, TUBE FITTING.

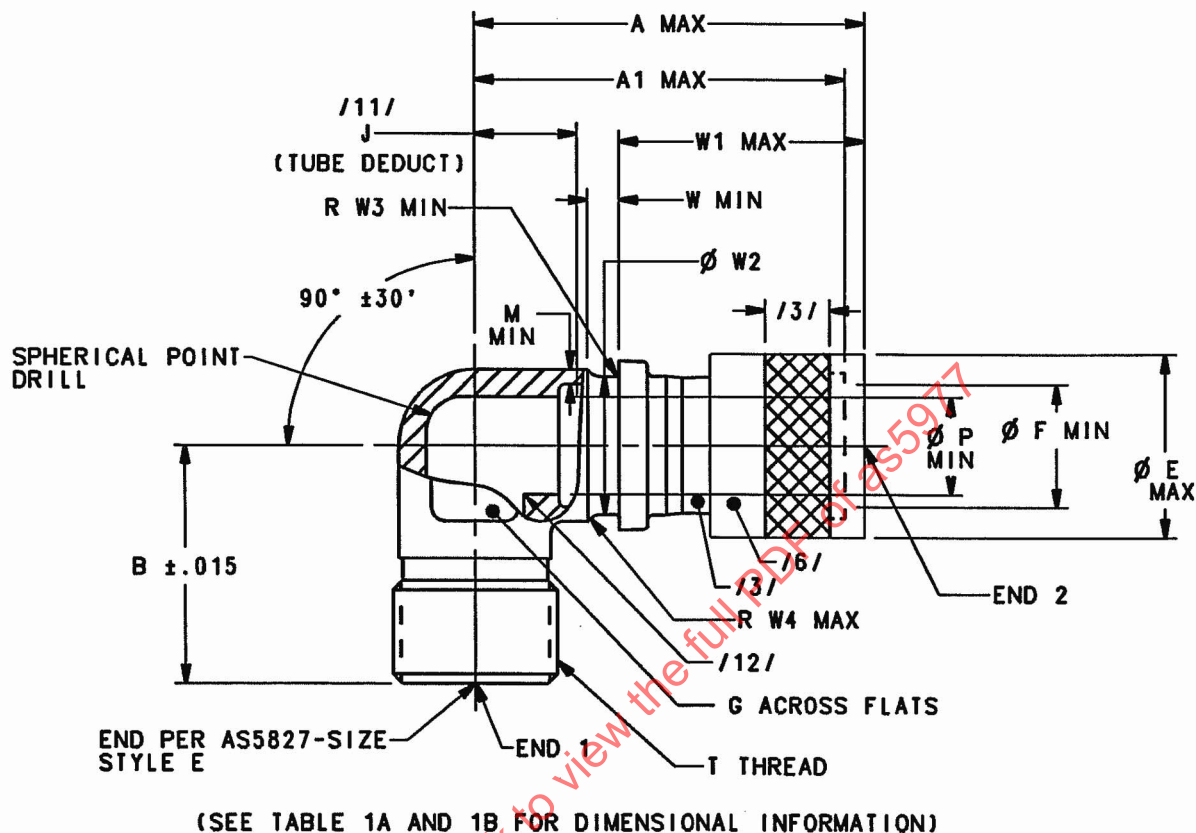
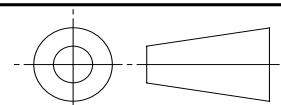


FIGURE 1 - ELBOW, 90°, SWAGE

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: AS5958

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING ASSEMBLY, 90°, MALE
FLARELESS, AXIALLY SWAGED,
HYDRAULIC, 5080 PSI

AS5977
SHEET 1 OF 3

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ISSUED 2006-01

TABLE 1A - DIMENSIONS A THROUGH J

BASIC NO. AS5977 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A	A1	B	E	F	(G)	J /11/ TUBE DEDUCT
0404	.2500	.2500	.935	.848	.767	.466	.253	.348/.380	.353 ±.150
0604	.3750	.2500	.998	.911	.846	.466	.253	.477/.509	.416 ±.150
0406	.2500	.3750	1.215	1.099	.830	.609	.378	.477/.509	.416 ±.150
0606	.3750	.3750	1.215	1.099	.846	.609	.378	.477/.509	.416 ±.150
0806	.5000	.3750	1.308	1.192	1.032	.609	.378	.615/.647	.509 ±.150
0608	.3750	.5000	1.516	1.370	.939	.783	.504	.615/.647	.517 ±.175
0808	.5000	.5000	1.516	1.370	1.032	.783	.504	.615/.647	.517 ±.175
1008	.6250	.5000	1.579	1.433	1.158	.783	.504	.751/.783	.580 ±.175
0810	.5000	.6250	1.873	1.669	1.095	.939	.629	.751/.783	.580 ±.175
1010	.6250	.6250	1.873	1.669	1.158	.939	.629	.751/.783	.580 ±.175
1210	.7500	.6250	1.998	1.794	1.346	.939	.629	.893/.929	.705 ±.175
1012	.6250	.7500	2.149	1.944	1.283	1.122	.754	.893/.929	.712 ±.175
1212	.7500	.7500	2.149	1.944	1.346	1.122	.754	.893/.929	.712 ±.175
1612	1.0000	.7500	2.308	2.103	1.505	1.122	.754	1.181/1.213	.878 ±.175
1216	.7500	1.0000	2.606	2.392	1.505	1.495	1.004	1.181/1.213	.878 ±.200
1616	1.0000	1.0000	2.606	2.392	1.505	1.495	1.004	1.181/1.213	.878 ±.200

TABLE 1B - DIMENSIONS M THROUGH W4 AND WEIGHTS

BASIC NO. AS5977 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	M	P	T THREAD PER AS8879	W	W1	W2 ±.0015	W3	W4	MAX WEIGHT LBS/EA
0404	.2500	.2500	.043	.198	.4375-28UNJEF-3A	.123	.488	.3005	.018	.065	.019
0604	.3750	.2500	.045	.198	.5625-24UNJEF-3A	.123	.488	.3005	.018	.065	.029
0406	.2500	.3750	.045	.302	.4375-28UNJEF-3A	.153	.675	.4475	.033	.065	.028
0606	.3750	.3750	.045	.302	.5625-24UNJEF-3A	.153	.675	.4475	.033	.065	.038
0806	.5000	.3750	.052	.302	.7500-20UNJEF-3A	.153	.675	.4475	.033	.065	.060
0608	.3750	.5000	.052	.401	.5625-24UNJEF-3A	.165	.871	.5945	.033	.129	.054
0808	.5000	.5000	.052	.401	.7500-20UNJEF-3A	.165	.871	.5945	.033	.129	.076
1008	.6250	.5000	.057	.401	.8750-20UNJEF-3A	.165	.871	.5945	.033	.129	.121
0810	.5000	.6250	.057	.507	.7500-20UNJEF-3A	.140	1.190	.7365	.021	.078	.095
1010	.6250	.6250	.057	.507	.8750-20UNJEF-3A	.140	1.190	.7365	.021	.078	.121
1210	.7500	.6250	.065	.507	1.0625-18UNJEF-3A	.140	1.190	.7365	.021	.078	.195
1012	.6250	.7500	.065	.604	.8750-20UNJEF-3A	.154	1.327	.8805	.024	.089	.121
1212	.7500	.7500	.065	.604	1.0625-18UNJEF-3A	.154	1.327	.8805	.024	.089	.195
1612	1.0000	.7500	.084	.604	1.3125-16UNJ-3A	.154	1.327	.8805	.024	.089	.380
1216	.7500	1.0000	.084	.802	1.0625-18UNJEF-3A	.167	1.612	1.1725	.027	.099	.293
1616	1.0000	1.0000	.084	.802	1.3125-16UNJ-3A	.167	1.612	1.1725	.027	.099	.386