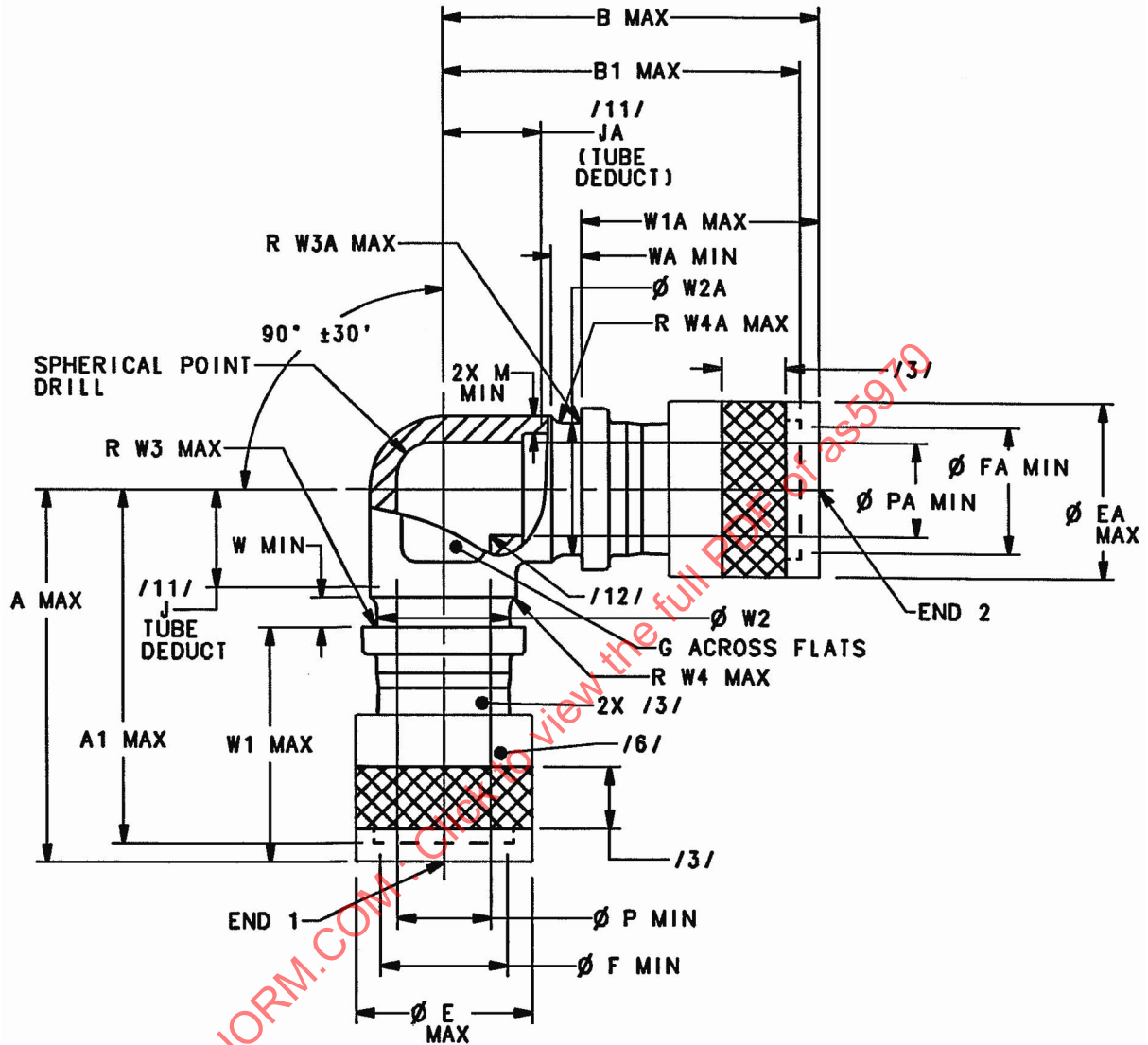


AS5970

RATIONALE

FEDERAL SUPPLY CLASS
4730

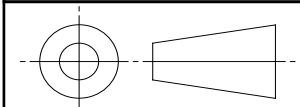
THIS STANDARD WAS PREPARED TO PROVIDE AN ENVELOPE REQUIREMENTS FOR AN AXIALLY SWAGED, FIELD ATTACHABLE, 5000 PSI, TUBE FITTING.



(SEE TABLE 1A, 1B & 1C FOR DIMENSIONAL INFORMATION)

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, ELBOW, 90°,
AXIALLY SWAGED,
HYDRAULIC, 5080 PSI

AS5970
SHEET 1 OF 3

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ISSUED 2006-01

TABLE 1A - DIMENSIONS A THROUGH G

BASIC NO. AS5970 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A	A1	B	B1	E	EA	F	FA	G
0404	.2500	.2500	.935	.848	.935	.848	.466	.466	.253	.253	.380/.348
0604	.3750	.2500	1.215	1.099	.998	.911	.609	.466	.378	.253	.509/.477
0606	.3750	.3750	1.215	1.099	1.215	1.099	.609	.609	.378	.378	.509/.477
0806	.5000	.3750	1.516	1.370	1.308	1.192	.783	.609	.504	.378	.647/.615
0808	.5000	.5000	1.516	1.370	1.516	1.370	.783	.783	.504	.504	.647/.615
1008	.6250	.5000	1.873	1.669	1.579	1.433	.939	.783	.629	.504	.783/.751
1010	.6250	.6250	1.873	1.669	1.873	1.669	.939	.939	.629	.629	.783/.751
1210	.7500	.6250	2.149	1.944	1.998	1.794	1.122	.939	.754	.629	.925/.893
1212	.7500	.7500	2.149	1.944	2.149	1.944	1.122	1.122	.754	.754	.925/.893
1612	1.0000	.7500	2.606	2.392	2.308	2.103	1.495	1.122	1.004	.754	1.213/1.181
1616	1.0000	1.0000	2.606	2.392	2.606	2.392	1.495	1.495	1.004	1.004	1.213/1.181

TABLE 1B - DIMENSIONS J THROUGH WA

BASIC NO. AS5970 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	J /11/ TUBE DUCT	JA /11/ TUBE DUCT	M	P	PA	W	WA
0404	.2500	.2500	.353 ±.150	.353 ±.150	.043	.198	.198	.123	.123
0604	.3750	.2500	.416 ±.150	.416 ±.150	.045	.302	.198	.153	.123
0606	.3750	.3750	.416 ±.150	.416 ±.150	.045	.302	.302	.153	.153
0806	.5000	.3750	.517 ±.175	.509 ±.150	.052	.401	.302	.165	.153
0808	.5000	.5000	.517 ±.175	.517 ±.175	.052	.401	.401	.165	.165
1008	.6250	.5000	.580 ±.175	.580 ±.175	.057	.507	.401	.140	.165
1010	.6250	.6250	.580 ±.175	.580 ±.175	.057	.507	.507	.140	.140
1210	.7500	.6250	.712 ±.175	.705 ±.175	.065	.604	.507	.154	.140
1212	.7500	.7500	.712 ±.175	.712 ±.175	.065	.604	.604	.154	.154
1612	1.0000	.7500	.878 ±.200	.878 ±.175	.084	.802	.604	.167	.154
1616	1.0000	1.0000	.878 ±.200	.878 ±.200	.084	.802	.802	.167	.167

TABLE 1C - DIMENSIONS W1 THROUGH W4A AND WEIGHTS

BASIC NO. AS5970 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	W1	W1A	W2 ±.0015	W2A ±.0015	W3	W3A	W4	W4A	MAX WEIGHT LBS/EA
0404	.2500	.2500	.488	.488	.3005	.3005	.018	.018	.060	.060	.019
0604	.3750	.2500	.675	.488	.4475	.3005	.033	.018	.060	.060	.037
0606	.3750	.3750	.675	.675	.4475	.4475	.033	.033	.060	.060	.044
0806	.5000	.3750	.871	.675	.5945	.4475	.033	.033	.124	.060	.079
0808	.5000	.5000	.871	.871	.5945	.5945	.033	.033	.124	.124	.091
1008	.6250	.5000	1.190	.871	.7365	.5945	.021	.033	.073	.124	.132
1010	.6250	.6250	1.190	1.190	.7365	.7365	.021	.021	.073	.073	.146
1210	.7500	.6250	1.327	1.190	.8805	.7365	.024	.021	.084	.073	.216
1212	.7500	.7500	1.327	1.327	.8805	.8805	.024	.024	.084	.084	.240
1612	1.0000	.7500	1.612	1.327	1.1725	.8805	.027	.024	.094	.084	.450
1616	1.0000	1.0000	1.612	1.612	1.1725	1.1725	.027	.027	.094	.094	.522