

AS4501

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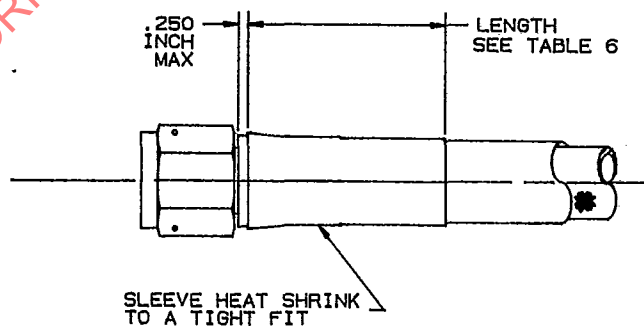
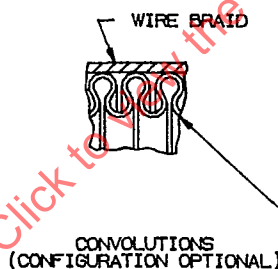
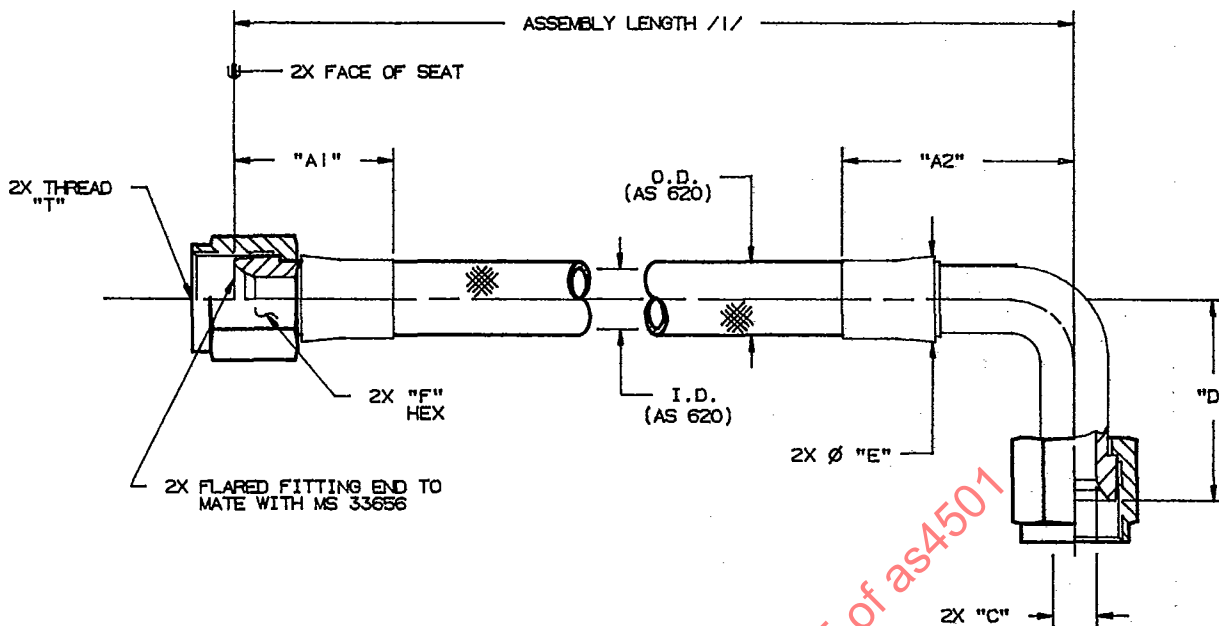


FIGURE 2

CUSTODIAN: SAE G-3/G-3D

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AEROSPACE STANDARD

HOSE ASSEMBLY, CONVOLUTED,
POLYTETRAFLUOROETHYLENE, CONDUCTIVE,
MEDIUM PRESSURE, FLARED, STRAIGHT TO 90°, AS620

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TABLE 1

HOSE ASSEMBLY NO. AND SIZE CODE	HOSE ASSEMBLY SIZE (REF)	THREAD T PER MIL-S-8879 REF	ID MIN (REF)	A ₁ MAX	A ₂ MAX	C /4/ DRILL DIA MIN (REF)	D MIN	D MAX	E /5/ DIA MAX WITHOUT SLEEVING (REF)	F HEX (REF)
AS4501-04	1/4	.4375-20UNJF-3B	.270	1.05	1.24	.132	.607	.677	.55	.56
AS4501-06	3/8	.5625-18UNJF-3B	.355	1.28	1.56	.256	.855	.925	.65	.69
AS4501-08	1/2	.7500-16UNJF-3B	.510	1.44	1.85	.345	1.072	1.142	.86	.88
AS4501-10	5/8	.8750-14UNJF-3B	.600	1.58	2.00	.430	1.246	1.316	.95	1.00
AS4501-12	3/4	1.0625-12UNJ-3B	.765	1.74	2.53	.635	1.370	1.440	1.28	1.25
AS4501-16	1	1.3125-12UNJ-3B	.980	1.79	2.87	.835	1.673	1.743	1.47	1.50
AS4501-20	1-1/4	1.6250-12UNJ-3B	1.220	2.29	3.39	1.085	2.015	2.085	1.70	2.00
AS4501-24	1-1/2	1.8750-12UNJ-3B	1.480	2.38	3.65	1.310	2.335	2.405	2.00	2.25

TABLE 2 (REF)

HOSE ASSEMBLY LENGTH	AVAILABLE INCREMENTS	TOLERANCE
UNDER 18 in	(NOT LESS THAN) .125 in	±.125 in
18 TO 36 in	(NOT LESS THAN) .250 in	±.250 in
36 TO 50 in	(NOT LESS THAN) .500 in	±.500 in
OVER 50 in	(NOT LESS THAN) 1.000 in	±1%

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TABLE 3

HOSE OR COVER CODE	HOSE OR TYPE OF PROTECTIVE COVER	HOSE OR COVER O.D. HOSE SIZE -04	HOSE OR COVER O.D. HOSE SIZE -06	HOSE OR COVER O.D. HOSE SIZE -08	HOSE OR COVER O.D. HOSE SIZE -10	HOSE OR COVER O.D. HOSE SIZE -12	HOSE OR COVER O.D. HOSE SIZE -16	HOSE OR COVER O.D. HOSE SIZE -20	HOSE OR COVER O.D. HOSE SIZE -24	UPPER TEMP. LIMIT °F
NONE (REF)	HOSE ONLY PER AS620 /5/									
B (REF)	SPIRAL ABRASION /2/	.505	.615	.825	.935	1.140	1.330	1.630	1.890	275
H ± .032	INTEGRAL FIRESLEEVE	.760	.830	1.010	1.170	1.360	1.510	1.750	2.000	400
N (REF)	FIRESLEEVE SIL/FG		.870	1.030	1.130	1.370	1.630	1.870	2.130	400
K ± .032	/8/ /5/ (AS1072)	.500	.630	.840	.920	1.135	1.345	1.600	1.870	300
	INTEGRAL ABRASION /3/ (BRAIDED POLYESTER)									

TABLE 4 - PHYSICAL REQUIREMENTS OF HOSE ASSEMBLIES (REF)

HOSE SIZE (REF)	OPERATING PRESSURE MAX PSI	PROOF PRESSURE MIN PSI	BURST PRESSURES ROOM TEMP MIN PSI	BURST PRESSURES HIGH TEMP MIN PSI	BEND RADIUS AT INSIDE OF BEND INCHES (HOSE ONLY)
-04	1000	2000	4000	2800	1.25
-06	1000	2000	4000	2800	2.25
-08	1000	2000	4000	2800	2.88
-10	1000	1800	3600	2500	3.00
-12	1000	1800	3600	2500	3.75
-16	1000	1800	3600	2500	5.00
-20	1000	1800	3600	2500	6.25
-24	750	1500	3000	2100	7.50

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TABLE 5 - NOMINAL WEIGHTS

HOSE SIZE (REF)	HOSE ONLY LB-IN (REF)	HOSE WITH SLEEVING LB-IN SPIRAL ABRASION CODE B	HOSE WITH SLEEVING LB-IN INTEGRAL FIRESLEEVE CODE H	HOSE WITH SLEEVING LB-IN TUBULAR FIRESLEEVE CODE N	HOSE WITH SLEEVING LB-IN POLYEST. ABRASION CODE K	STR END FITTING LB EACH	90° END FITTING LB EACH	HOSE LENGTH CORRECTION FACTOR-IN /7/ STR	HOSE LENGTH CORRECTION FACTOR-IN /7/ 90°
-04	.007	.010	--	.017	.008	.06	.06	.45	.61
-06	.010	.014	--	.021	.012	.10	.12	.57	.82
-08	.015	.020	.032	.030	.018	.16	.19	.72	1.10
-10	.020	.025	.042	.035	.022	.25	.30	.72	1.10
-12	.025	.030	.050	.042	.026	.34	.42	.71	1.48
-16	.030	.036	.055	.054	.035	.49	.66	.78	1.84
-20	.050	.060	.070	.077	.045	.90	1.00	.94	2.01
-24	.060	.071	.082	.107	.058	1.28	1.41	.94	2.28

TABLE 6

(REF) HOSE SIZE	LENGTH (in)
-04/-06	2.00 ± .25
-08/-10	2.50 ± .25
-12/-16	3.00 ± .25
-20/-24	3.50 ± .25

TABLE 7 (REF)

SPHERICAL BALL SIZE FOR DETERMINING MINIMUM I.D. /4/

HOSE SIZE (REF)	STRAIGHT END FITTING MS19059- DASH NO.	STRAIGHT END FITTING DIA IN	ELBOW END FITTING MS19059- DASH NO.	ELBOW END FITTING DIA IN
-04	1008	.125	1006	.094
-06	1014	.250	1013	.219
-08	1017	.344	1015	.281
-10	1019	.406	1018	.375
-12	1626	.625	1624	.562
-16	1632	.812	1631	.781
-20	1639	1.062	1638	1.001
-24	--	1.281	1642	1.250

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