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REV.
G

AS138

FEDERAL SUPPLY CLASS

RATIONALE

AS138G HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

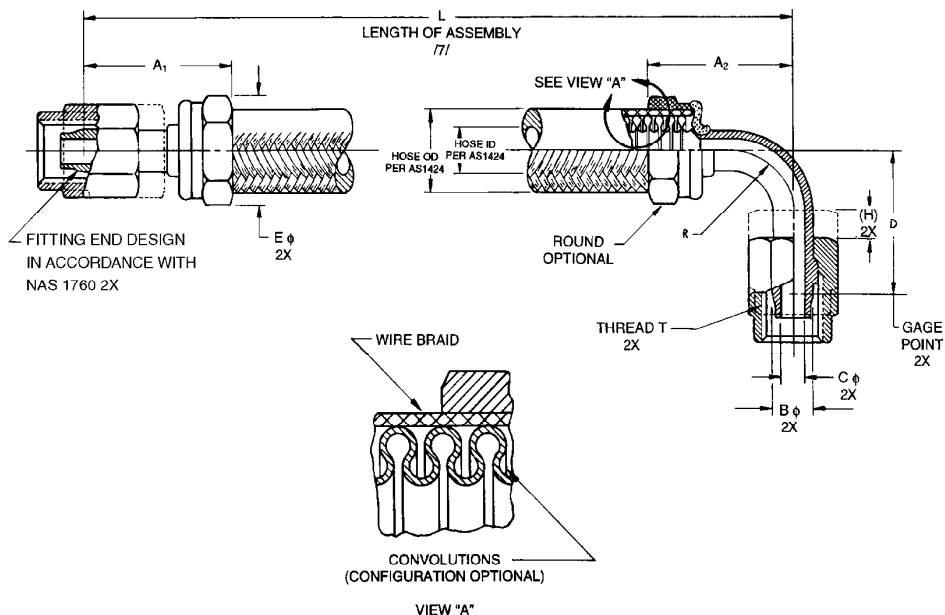


FIGURE 1 - HOSE ASSEMBLY

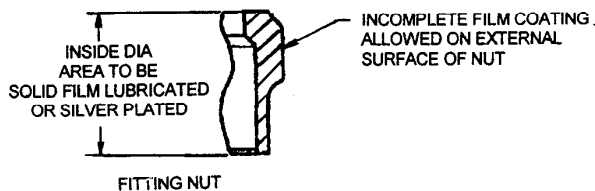
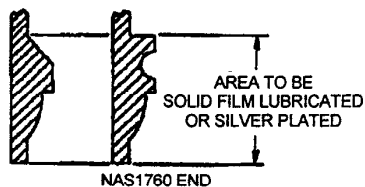
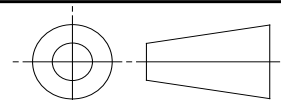


FIGURE 2 - LUBRICANT APPLICATION AREA /14/ /15/

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ AS1424



AEROSPACE STANDARD

(R) HOSE ASSEMBLY, METAL - MEDIUM PRESSURE, FLARELESS, WELDED, STRAIGHT TO 90°

AS138
SHEET 1 OF 4

REV.
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TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY SIZE CODE	HOSE SIZE (REF)	A1 MAX	A2 MAX	B GAGE BASIC	C MIN THRU /8/	D MIN	D MAX	E MAX	(H) NOM	R (REF)	THREAD T PER AS8879 (ISO 3161) (REF)
04	.250	1.25	1.18	.2930	.141	.83	1.08	.900	.40	.250	.4375-20UNJF-3B
05	.312	1.38	1.24	.3500	.197	.84	1.09	1.100	.40	.312	.5000-20UNJF-3B
06	.375	1.38	1.31	.4120	.250	.98	1.23	1.200	.40	.375	.5625-18UNJF-3B
08	.500	1.56	1.50	.5600	.360	1.23	1.54	1.300	.47	.500	.7500-16UNJF-3B
10	.625	1.75	1.75	.6730	.455	1.56	1.87	1.500	.53	.625	.8750-14UNJF-3B
12	.750	1.94	2.06	.8100	.568	1.67	2.05	1.740	.53	.750	1.0625-12UNJ-3B
16	1.000	2.12	2.50	1.0620	.760	1.84	2.22	2.300	.53	1.000	1.3125-12UNJ-3B
20	1.250	2.38	2.97	1.3160	.920	2.09	2.59	2.850	.54	1.250	1.6250-12UNJ-3B

TABLE 2 - ASSEMBLY LENGTH TOLERANCE

HOSE ASSEMBLY LENGTH	LENGTH TOLERANCE
UNDER 10 in	±.062 in
10 TO 36 in EXCLUSIVE	±.125 in
36 TO 50 in EXCLUSIVE	±.250 in
50 in AND OVER	±1%

TABLE 3 - HOSE ASSEMBLY ROOM TEMPERATURE PHYSICAL CHARACTERISTIC (REF) /5/

HOSE SIZE CODE	OPERATING PRESSURE PSI NOM	PROOF PRESSURE PSI MIN	BURST PRESSURE PSI MIN
04	2000	3000	8000
05	1800	2700	7200
06	1600	2400	6400
08	1400	2100	5600
10	1200	1800	4800
12	1050	1575	4200
16	800	1200	3200
20	550	825	2200

TABLE 4 - SPHERICAL BALL SIZE
FOR DETERMINING MINIMUM
HOSE ASSEMBLY ID /8/

HOSE SIZE	STRAIGHT FITTING	ELBOW FITTING
04	.127	.120
05	.177	.167
06	.225	.212
08	.324	.306
10	.410	.387
12	.511	.483
16	.684	.646
20	.828	.782

TABLE 5 - WEIGHTS (MAX)

HOSE SIZE	HOSE LB/IN	STANDARD FITTING (LB) STRAIGHT	STANDARD FITTING (LB) 90° ELBOW
-04	.016	.05	.05
-05	.018	.07	.08
-06	.020	.08	.09
-08	.028	.13	.15
-10	.038	.20	.24
-12	.042	.39	.44
-16	.058	.52	.68
-20	.072	.79	1.02

	AEROSPACE STANDARD	AS138 SHEET 2 OF 4	REV. G
	(R) HOSE ASSEMBLY, METAL - MEDIUM PRESSURE, FLARELESS, WELDED, STRAIGHT TO 90°		


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