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AS4007

FEDERAL SUPPLY CLASS
4720

RATIONALE

AS4007 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

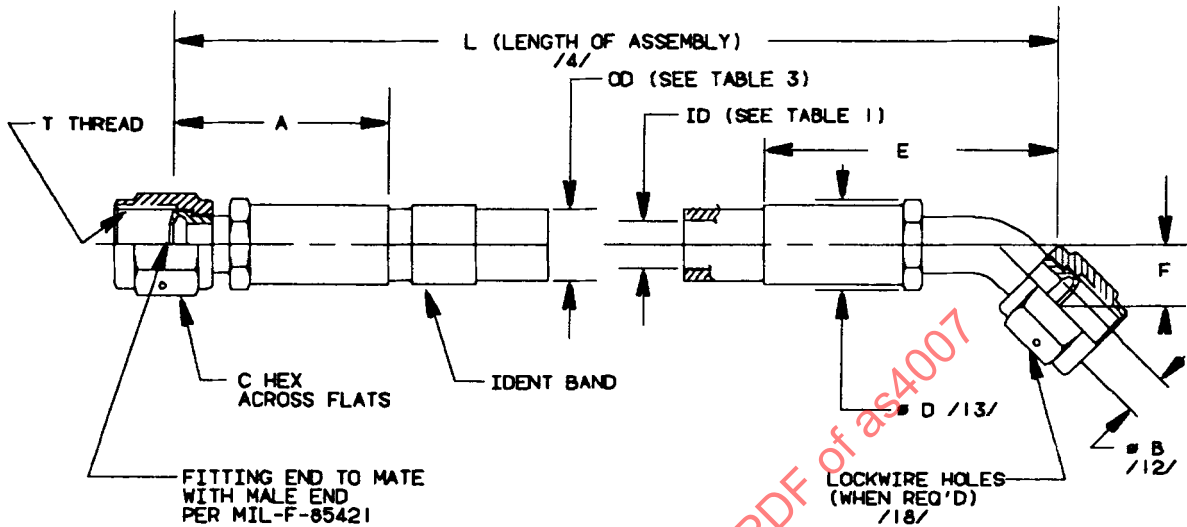


FIGURE 1 - HOSE ASSEMBLY

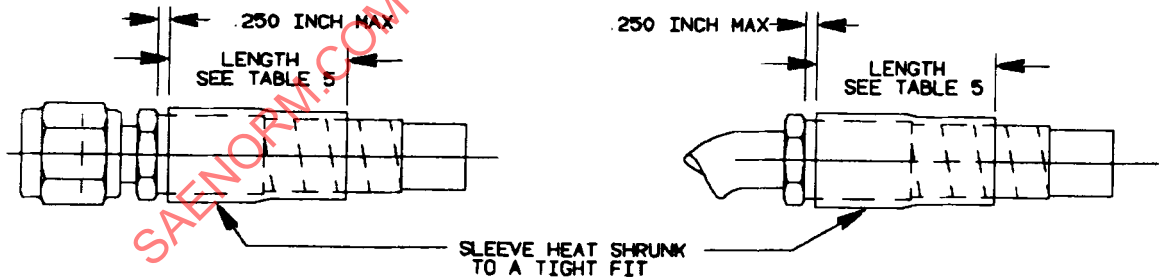
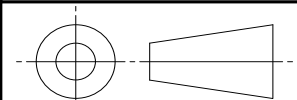


FIGURE 2 - HEAT SHRINKABLE SLEEVES REQUIRED
FOR COIL AND TUBULAR ABRASION SLEEVES
/6/ AND /7/

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /19/ AS1946



AEROSPACE STANDARD

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
PTFE, METAL BRAID, MEDIUM PRESSURE,
BEAM SEAL, STRAIGHT TO 45°

AS4007
SHEET 1 OF 6

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ISSUED 1993-03 REAFFIRMED 2015-04

TABLE 1 - BASIC HOSE DIMENSIONS

HOSE ASSEMBLY SIZE CODE	HOSE SIZE REF	THREAD PER MIL-S-8879	ID MIN	A MAX	B MIN /12/	C HEX REF	D MAX /13/	E MAX	F MIN	F MAX	BALL SIZE MIN THRU DIA /12/
AS4007-04	.250	.4375-24UNJS-38	.173	1.11	.132	.56	.55	1.85	.414	.545	.119
AS4007-06	.375	.5625-20UNJS-38	.298	1.32	.256	.69	.63	2.15	.450	.582	.230
AS4007-08	.500	.7188-20UNJS-38	.391	1.45	.340	.88	.83	2.25	.447	.675	.313
AS4007-10	.625	.8438-18UNJS-38	.485	1.60	.430	1.00	.97	2.66	.555	.766	.391
AS4007-12	.750	1.0000-16UNJ -38	.615	1.80	.548	1.12	1.17	3.09	.619	.869	.515
AS4007-16	1.000	1.2500-14UNJS-38	.851	2.12	.755	1.38	1.52	3.60	.654	1.283	.750
AS4007-20	1.250	1.5781-14UNJS-38	1.101	2.30	.995	1.63	1.72	3.78	.713	1.279	.969
AS4007-24	1.500	1.8438-14UNJS-38	1.344	2.50	1.220	2.00	2.07	3.96	.765	1.483	1.188

TABLE 2 - LENGTH TOLERANCE

HOSE ASSEMBLY LENGTHS	AVAILABLE INCREMENTS	TOLERANCE
UNDER 18 in	(NOT LESS THAN) .125 in	(PLUS OR MINUS) .125
18 TO 36 in	(NOT LESS THAN) .250 in	(PLUS OR MINUS) .250
36 TO 50 in	(NOT LESS THAN) .500 in	(PLUS OR MINUS) .500
OVER 50 in	(NOT LESS THAN) 1.00 in	(PLUS OR MINUS) 1%

TABLE 3 - HOSE AND SLEEVE OD

HOSE OR SLEEVE CODE	HOSE OR TYPE SLEEVE	TEMP LIMIT °F	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER TOLERANCE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE
-	HOSE ONLY	450	MAX MIN	.343 .304	.469 .430	.595 .546	.687 .641	.812 .766	1.140 1.078	1.390 1.328	1.707 1.637
A	ABRASION SLEEVE TUBULAR (TFE AS1291)	400	MAX MIN	.473 .393	.585 .515	.715 .645	.818 .748	.940 .870	1.280 1.210	1.520 1.450	1.841 1.771
B	ABRASION SLEEVE COIL (NYLON AS1294)	275	MAX MIN	.409 .330	.535 .456	.669 .590	.767 .681	.896 .810	1.224 1.122	1.466 1.380	1.799 1.705
C	TUBULAR FIRESLEEVE SIL/FG (15 mfn) /5//9//14/ (AS1072)	400	MAX MIN	.625 .533	.750 .658	.875 .778	1.000 .908	1.125 1.038	1.375 1.288	1.750 1.658	2.000 1.898
E	SHRINK ABRASION SLEEVE (FEP)	350	MAX MIN	.375 .320	.507 .452	.635 .578	.749 .679	.887 .811	1.228 1.146	1.440 1.358	1.757 1.667
F	SHRINK ABRASION SLEEVE (POLYOLEFIN)	275	MAX MIN	.411 .348	.547 .484	.683 .600	.769 .699	.894 .824	1.232 1.146	1.482 1.396	1.809 1.715
H	INTEGRAL FIRESLEEVE (15 mfn)	400	MAX MIN	.641 .594	.766 .719	.891 .844	1.016 .969	1.141 1.074	1.454 1.394	1.704 1.657	2.016 1.967
K	INTEGRAL ABRASION SLEEVE (BRAIDED POLYESTER)	300	MAX MIN	.430 .390	.559 .520	.665 .625	.772 .726	.887 .841	1.210 1.148	1.460 1.398	1.782 1.712
L	ABRASION SLEEVE COIL (PTFE AS1293)	400	MAX MIN	.445 .333	.571 .470	.687 .586	.789 .681	.914 .828	1.242 1.138	1.492 1.390	1.809 1.699

TABLE 4 - HOSE AND SLEEVE (MAXIMUM WEIGHT)

HOSE OR SLEEVE CODE	UNITS	HOSE SIZE .250	HOSE SIZE .375	HOSE SIZE .500	HOSE SIZE .625	HOSE SIZE .750	HOSE SIZE 1.000	HOSE SIZE 1.250	HOSE SIZE 1.500
-	LB/IN	.007	.010	.015	.018	.022	.045	.057	.074
A	LB/IN	.002	.004	.005	.005	.007	.012	.015	.019
B	LB/IN	.001	.002	.003	.004	.004	.004	.0054	.0090
C	LB/IN	.012	.016	.020	.022	.029	.042	.032	.055
E	LB/IN	.002	.002	.003	.004	.008	.010	.011	.015
F	LB/IN	.001	.002	.003	.003	.005	.007	.007	.012
H	LB/IN	.019	.025	.034	.040	.047	.081	.102	.130
K	LB/IN	.009	.015	.019	.023	.028	.053	.065	.089
L	LB/IN	.004	.005	.008	.009	.011	.018	.0221	.0275
FIRE- SLEEVE CLAMP	LB/EA	.020	.020	.025	.025	.025	.029	.037	.044
FITTING END STRAIGHT	LB/EA	.041	.066	.104	.152	.188	.350	.372	.574

TABLE 5 - SLEEVE LENGTH

HOSE SIZE	LENGTH (IN)
.250	2.00 ± .25
.375	
.500	2.00 ± .25
.625	
.750	3.00 ± .25
1.000	
1.250	4.00 ± .25
1.500	

NOTES:

1. MATERIALS:
 - a. HOSE AND FITTINGS: PER AS1946 EXCEPT ALUMINUM FITTINGS ARE PROHIBITED
 - b. TUBULAR ABRASION SLEEVE: BLACK, EXTRUDED SEAMLESS TFE TUBING PER AS1291
 - c. COIL ABRASION SLEEVE: BLACK, NYLON COIL PER AS1294, OR TFE PER AS1293
 - d. INTEGRAL ABRASION SLEEVE: BRAIDED POLYESTER
 - e. INTEGRAL FIRESLEEVE: SILICONE COMPOSITE PER AS1723
 - f. FIRESLEEVE: FIBERGLASS, IMPREGNATED WITH SILICONE PER AS1072 "SIL" CODED
 - g. SHRINK ABRASION SLEEVE (FEP): TRANSLUCENT, SHRINKABLE FEP TUBING PER MIL-I-23053/11
 - h. SHRINK ABRASION SLEEVE (POLYOLEFIN): BLACK, SHRINKABLE POLYOLEFIN TUBING PER AS1073 CODE B



AEROSPACE STANDARD

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
PTFE, METAL BRAID, MEDIUM PRESSURE,
BEAM SEAL, STRAIGHT TO 45°

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