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AS4010

RATIONALE

AS4010 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

FEDERAL SUPPLY CLASS
4720

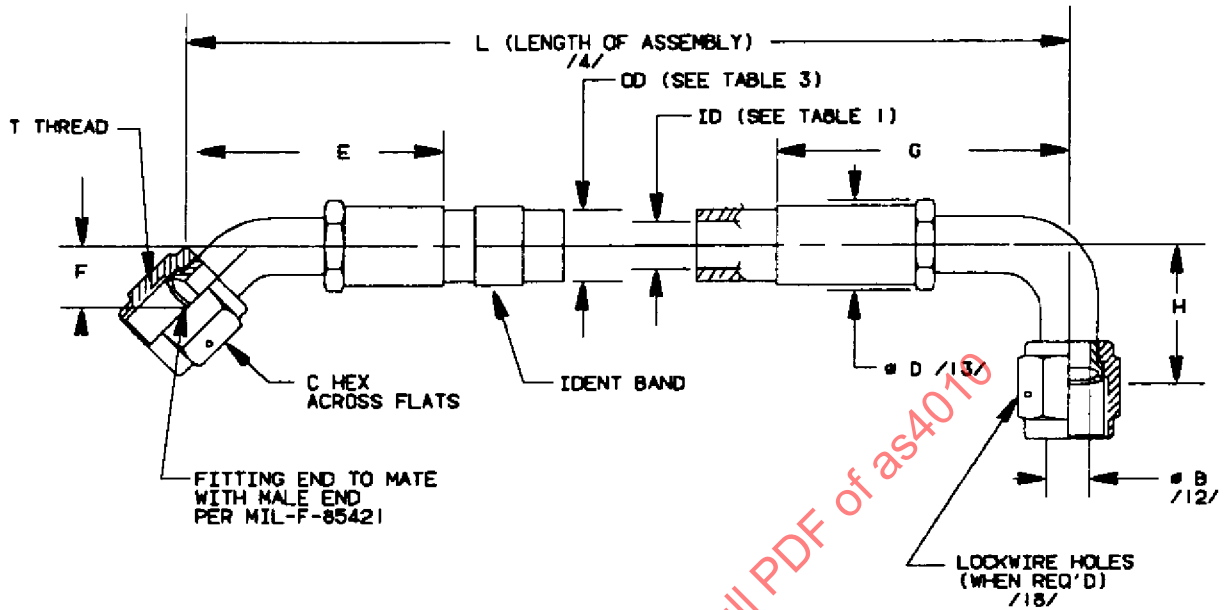


FIGURE 1 - HOSE ASSEMBLY

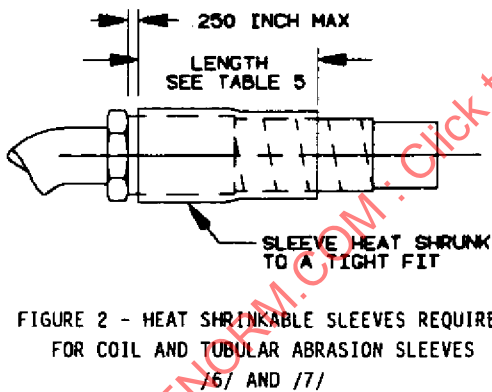


FIGURE 2 - HEAT SHRINKABLE SLEEVES REQUIRED FOR COIL AND TUBULAR ABRASION SLEEVES /6/ AND /7/

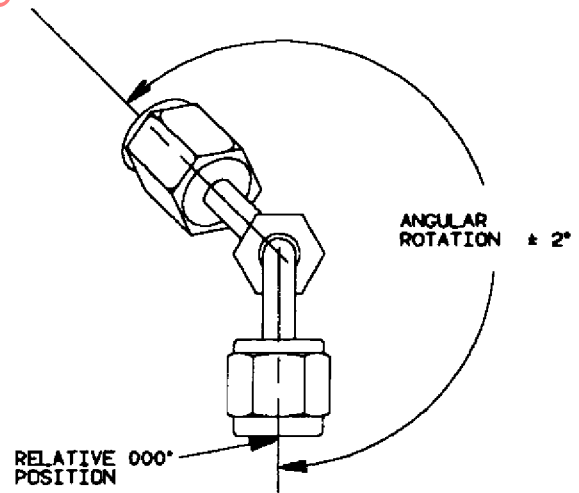
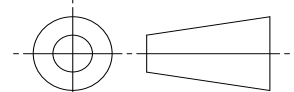


FIGURE 3 - HOSE ASSEMBLY
END VIEW

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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, 45° TO 90°

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TABLE 1 - BASIC HOSE DIMENSIONS

HOSE ASSEMBLY SIZE CODE	HOSE SIZE REF	THREAD T PER MIL-S-8879	ID MIN	B MIN /12/	C MEX REF	D MAX /13/	E MAX	F MIN	F MAX	G MAX	H MIN	H MAX	BALL SIZE MIN THRU DIA /12/
AS4010E	.250	.4375-24UNJS-38	.173	.132	.56	.55	1.85	.414	.545	1.55	.820	.980	.119
AS4010G	.375	.5625-20UNJS-38	.298	.256	.69	.63	2.15	.450	.582	1.80	.945	1.37	.230
AS4010H	.500	.7188-20UNJS-38	.391	.340	.88	.83	2.25	.615	.675	1.99	.945	1.37	.313
AS4010J	.625	.8438-18UNJS-38	.485	.430	1.00	.97	2.66	.555	.766	2.37	1.16	1.59	.391
AS4010K	.750	1.0000-16UNJ-38	.615	.548	1.12	1.17	3.09	.619	.869	2.98	1.38	1.92	.515
AS4010M	1.000	1.2500-14UNJS-38	.851	.778	1.38	1.38	3.60	.654	.947	3.23	1.51	2.65	.750
AS4010N	1.250	1.5781-14UNJS-38	1.101	1.000	1.625	1.68	3.78	1.114	1.174	3.36	2.33	2.39	.969
AS4010P	1.500	1.8438-14UNJS-38	1.344	1.250	2.000	2.08	3.96	1.259	1.319	3.54	2.686	2.746	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) 1.000 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 .250	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE .375	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE .500	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE .625	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE .750	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE 1.000	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE 1.250	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE 1.500
-	HOSE ONLY	450	MAX .343 MIN .304	.469 .430	.585 .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 .473 MIN .393	.585 .515	.715 .645	.818 .748	.940 .870	1.280 1.210	1.514 1.460	1.826 1.772	
B	ABRASION SLEEVE COIL (NYLON AS1294)	275	MAX .409 MIN .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 mfm) /5//9//14/ (AS1072)	400	MAX .625 MIN .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 .375 MIN .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 .411 MIN .348	.547 .484	.663 .600	.769 .699	.894 .824	1.232 1.146	1.482 1.396	1.809 1.715	
H	INTEGRAL FIRESLEEVE (15 mfm)	400	MAX .641 MIN .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 .430 MIN .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 .445 MIN .333	.571 .470	.687 .586	.789 .681	.914 .828	1.242 1.138	1.492 1.390	1.809 1.699	



AEROSPACE STANDARD

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
PTFE, METAL BRAID, MEDIUM PRESSURE,
BEAM SEAL, 45° TO 90°

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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



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