

RATIONALE

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

AS4010

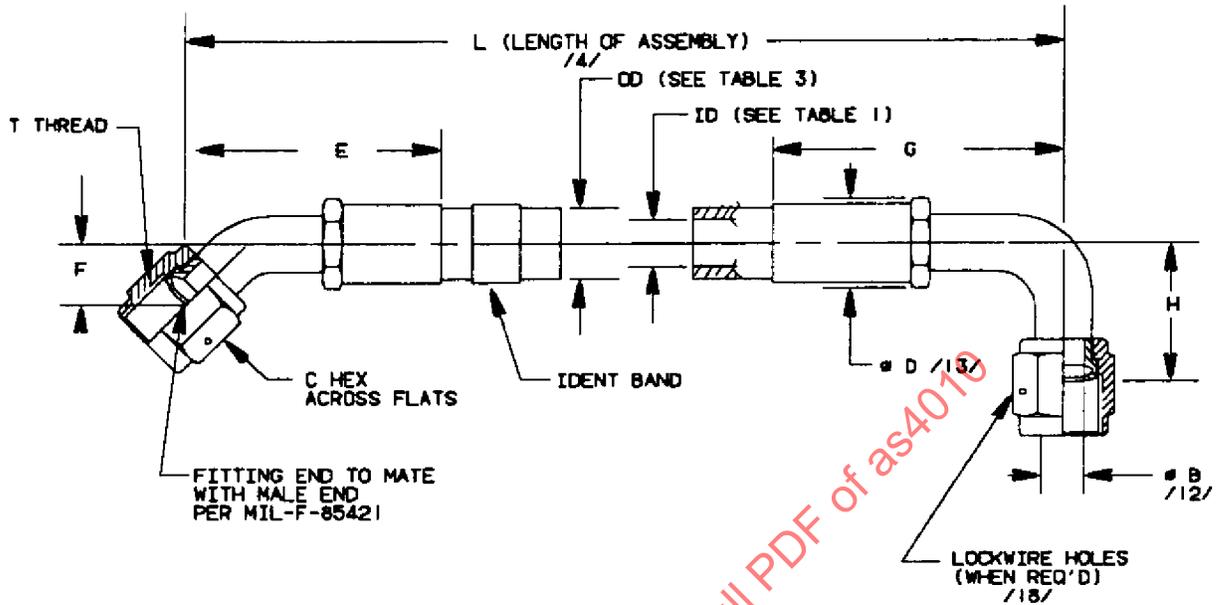


FIGURE 1 - HOSE ASSEMBLY

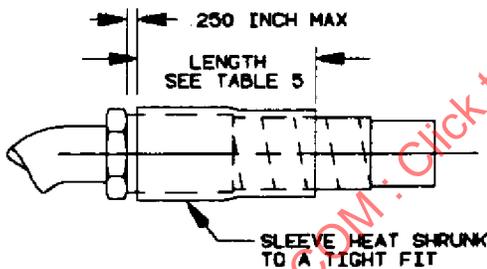


FIGURE 2 - HEAT SHRINKABLE SLEEVES REQUIRED FOR COIL AND TUBULAR ABRASION SLEEVES /6/ AND /7/

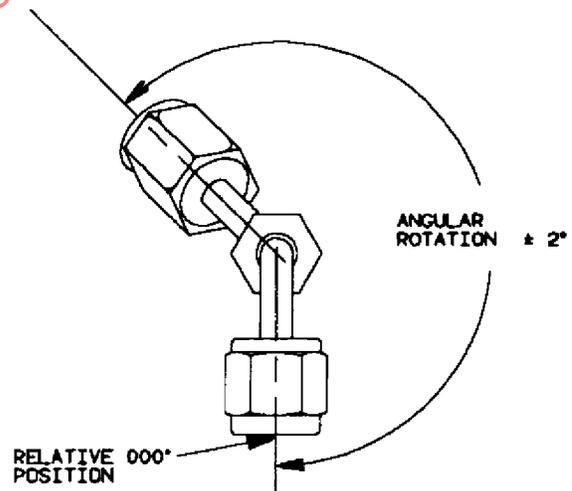
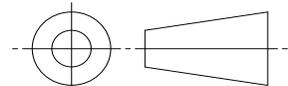


FIGURE 3 - HOSE ASSEMBLY
END VIEW

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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°

AS4010
SHEET 1 OF 6

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TABLE 1 - BASIC HOSE DIMENSIONS

HOSE ASSEMBLY SIZE CODE	MOSE SIZE REF	THREAD T PER MIL-S-8879	ID MIN	B		C		D		E		F		G		H		BALL SIZE MIN THRU DIA /12/
				MIN /12/	MAX /13/	MEX REF	MAX /13/	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
AS4010E	.250	4375-24UNJS-38	.173	.132	.55	.56	.55	1.85	.414	.545	1.55	.820	.980	.119				
AS4010G	.375	5625-20UNJS-38	.298	.256	.63	.69	2.15	.450	.582	1.80	.945	1.37	.230					
AS4010H	.500	7188-20UNJS-38	.391	.340	.83	.88	2.25	.615	.675	1.99	.945	1.37	.313					
AS4010J	.625	8438-18UNJS-38	.485	.430	1.00	1.00	2.66	.555	.766	2.37	1.16	1.59	.391					
AS4010K	.750	1.0000-16UNJ-38	.615	.548	1.12	1.12	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	1.625	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	2.000	2.08	3.96	1.259	1.319	3.54	2.686	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%



AEROSPACE STANDARD

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

AS4010
SHEET 2 OF 6

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	
				.250	.375	.500	.625	.750	1.000	1.250	1.500	1.750	2.000
-	HOSE ONLY	450	MAX	.469	.585	.687	.812	1.140	1.390	1.707			
			MIN	.430	.546	.641	.766	1.078	1.328	1.637			
A	ABRASION SLEEVE TUBULAR (TFE AS1291)	400	MAX	.473	.715	.818	.940	1.280	1.514	1.826			
			MIN	.393	.515	.645	.748	1.210	1.460	1.772			
B	ABRASION SLEEVE COIL (NYLON AS1294)	275	MAX	.409	.669	.767	.896	1.224	1.466	1.799			
			MIN	.330	.456	.590	.681	1.122	1.380	1.705			
C	TUBULAR FIRESLEEVE SIL/FG (15 min) /5//9//14/ (AS1072)	400	MAX	.625	.875	1.000	1.125	1.375	1.750	2.000			
			MIN	.533	.778	.908	1.038	1.288	1.658	1.898			
E	SHRINK ABRASION SLEEVE (FEP)	350	MAX	.375	.507	.635	.749	.887	1.228	1.440	1.757		
			MIN	.320	.452	.578	.679	.811	1.146	1.358	1.667		
F	SHRINK ABRASION SLEEVE (POLYOLEFIN)	275	MAX	.411	.547	.663	.769	.894	1.232	1.482	1.809		
			MIN	.348	.484	.600	.699	.824	1.146	1.396	1.715		
H	INTEGRAL FIRESLEEVE (15 min)	400	MAX	.641	.766	.891	1.016	1.141	1.454	1.704	2.016		
			MIN	.594	.719	.844	.969	1.074	1.394	1.657	1.967		
K	INTEGRAL ABRASION SLEEVE (BRAIDED POLYESTER)	300	MAX	.430	.559	.665	.772	.887	1.210	1.460	1.782		
			MIN	.390	.520	.625	.726	.841	1.148	1.398	1.712		
L	ABRASION SLEEVE COIL (PTFE AS1293)	400	MAX	.445	.571	.687	.789	.914	1.242	1.492	1.809		
			MIN	.333	.470	.586	.681	.828	1.138	1.390	1.699		



AEROSPACE STANDARD

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

AS4010
SHEET 3 OF 6

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