

REV.
C

AS1913

FEDERAL SUPPLY CLASS
4720

RATIONALE

AS1913C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

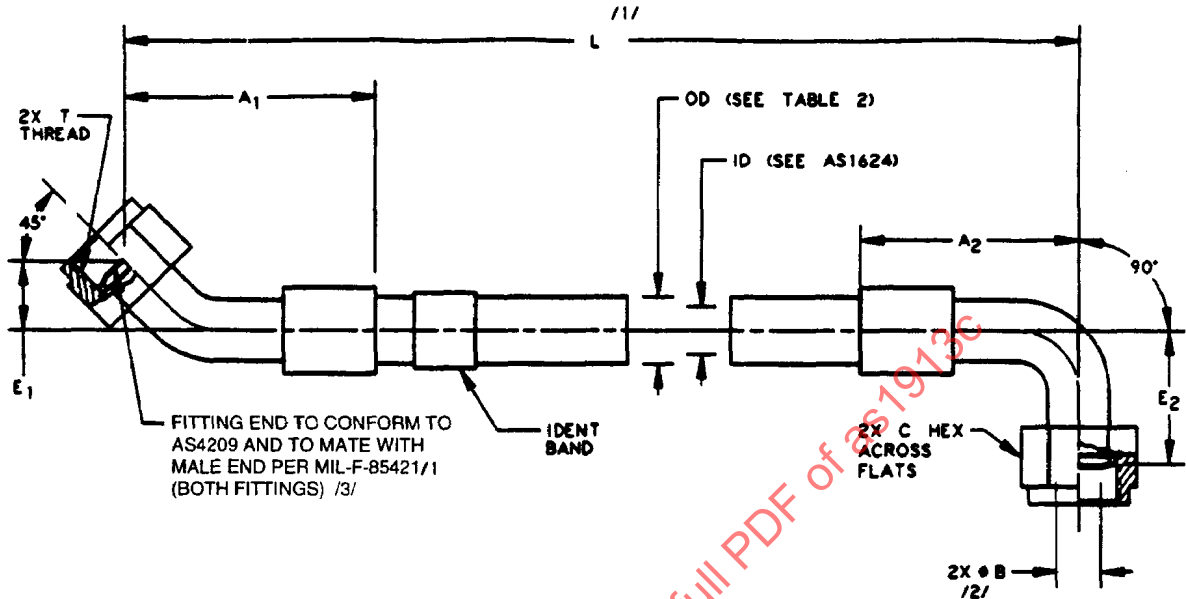


FIGURE 1 - HOSE AND FITTING DIMENSIONS

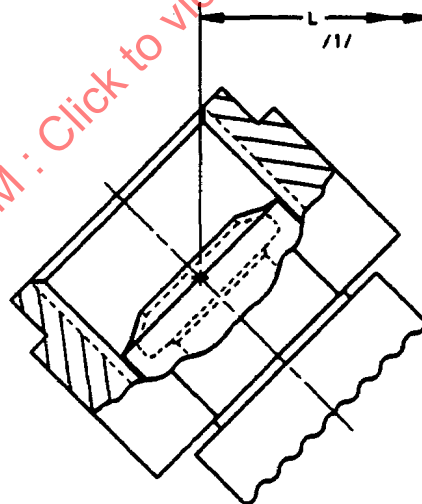
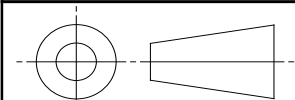


FIGURE 2 - FITTINGS
(ENLARGED VIEW)

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS1913C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /13/ AS1339



AEROSPACE STANDARD

(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT,
BEAM SEAL, 45° TO 90°

AS1913
SHEET 1 OF 6

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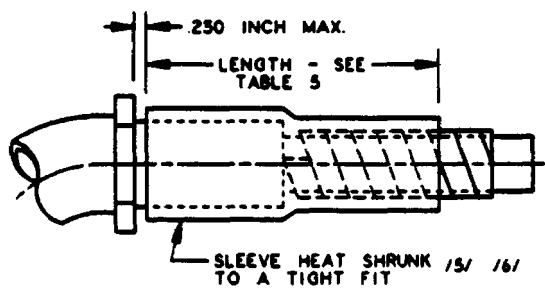


FIGURE 3 - ABRASION SLEEVE RETENTION

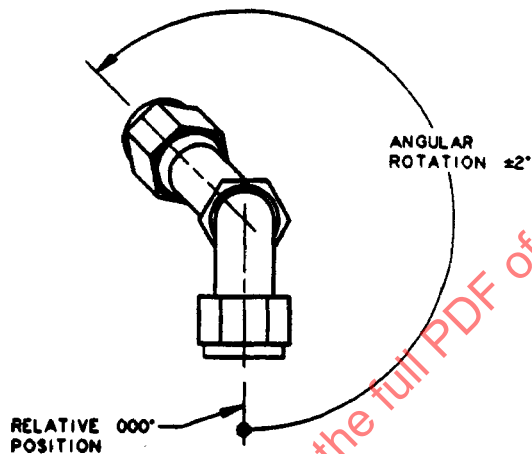


FIGURE 4 - FITTING ANGULAR ORIENTATION

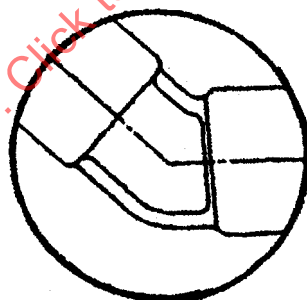


FIGURE 5 - ALTERNATE ELBOW CONFIGURATION /21/

	AEROSPACE STANDARD		AS1913 SHEET 2 OF 6	REV. C
	(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT, BEAM SEAL. 45° TO 90°			

TABLE 1- HOSE AND FITTING DIMENSIONS

HOSE ASSEMBLY NO. AND SIZE CODE	SIZE REF	THREAD T PER MIL-S-8879 REF	A ₁ MAX	A ₂ MAX	B /2/ DIA MIN	C HEX REF	E ₁ MIN	E ₁ MAX	E ₂ MIN	E ₂ MAX
AS1913E	.250	.4375-24UNJS-3B	1.90	1.69	.135	.56	.450	.550	.795	.983
AS1913G	.375	.5625-20UNJS-3B	2.35	2.21	.240	.69	.517	.600	1.000	1.125
AS1913H	.500	.7188-20UNJS-3B	2.50	2.10	.340	.88	.513	.675	1.033	1.240
AS1913J	.625	.8438-18UNJS-3B	2.70	2.29	.410	1.00	.620	.765	1.258	1.445
AS1913K	.750	1.0000-16UNJ-3B	3.15	2.79	.510	1.125	.760	.874	1.530	1.954
AS1913M	1.000	1.2500-14UNJS-3B	3.50	3.20	.760	1.50	.825	.950	1.795	1.920

TABLE 2 - HOSE OR SLEEVE OUTSIDE DIAMETERS

SLEEVE CODE	SLEEVE MATERIAL	TEMP. LIMIT °F	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .250	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .375	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .500	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .625	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .750	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ 1.000
-	(-) INDICATES HOSE ONLY NO SLEEVE (SEE AS1339)	400	--	--	--	--	--	--
A	ABRASION SLEEVE TUBULAR /5/ (TFE-AS1291-CODE B)	400	.500/.440	.600/.540	.730/.670	.840/.780	1.110/1.050	1.400/1.340
B	ABRASION SLEEVE COIL /6/ (NYLON AS1294)	275	.450/.390	.550/.490	.695/.635	.810/.750	1.080/1.020	1.360/1.300
C	FIRE SLEEVE (AS1072 SIL-FG) (15 min) /7/ /8/ /11/	400	.625/.500	.750/.625	.875/.750	1.000/.875	1.250/1.125	1.500/1.375
E	ABRASION SLEEVE SHRINK-ON (FEP) (M23053/11) /10/	350	.424/.374	.540/.480	.665/.615	.790/.730	1.070/1.010	1.350/1.290
F	ABRASION SLEEVE SHRINK-ON (POLYOLEFIN AS1073 - CODE B) /10/	275	.450/.400	.560/.505	.695/.645	.810/.750	1.080/1.020	1.360/1.300
H	FIRE SLEEVE INTEGRAL SILICONE (15 min) /11/ /12/	400	.660/.600	.745/.685	.895/.835	1.005/.945	1.240/1.160	1.515/1.455
K	INTEGRAL ABRASION SLEEVE /9/ (BRAIDED) POLYESTER	300	.490/.444	.570/.535	.695/.650	.800/.760	1.070/1.030	1.350/1.310
L	ABRASION SLEEVE COIL /6/ (PTFE-AS1293)	400	.500/.440	.600/.540	.730/.670	.862/.802	1.110/1.050	1.400/1.340

TABLE 3 - HOSE ASSEMBLY LENGTH TOLERANCES

HOSE ASSEMBLY LENGTH	TOLERANCE
UNDER 18 in	±.125 in
18 TO 36 in EXCLUSIVE	±.250 in
36 TO 50 in EXCLUSIVE	±.500 in
50 in AND OVER	±1%

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	(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT, BEAM SEAL, 45° TO 90°		

TABLE 4 - WEIGHTS

HOSE OR SLEEVE CODE	HOSE OR TYPE SLEEVE	UNITS	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .250	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .375	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .500	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .625	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .750	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE 1.000
-	HOSE ONLY	LB/IN	.009	.015	.020	.027	.058	.085
A	ABRASION SLEEVE (TFE-AS1291-B)	LB/IN	.003	.004	.004	.005	.007	.009
B	ABRASION SLEEVE (NYLON AS1294)	LB/IN	.001	.002	.003	.003	.004	.005
C	FIRESLEEVE (15 min) AS1072	LB/IN	.007	.009	.011	.012	.017	.021
E	ABRASION SLEEVE (FEP)	LB/IN	.002	.003	.003	.005	.006	.007
F	ABRASION SLEEVE (AS1073B)	LB/IN	.002	.003	.003	.004	.005	.006
H	FIRESLEEVE INTEGRAL (15 min) ON HOSE	LB/IN	.019	.027	.035	.047	.099	.117
K	ABRASION SLEEVE POLYESTER WITH HOSE	LB/IN	.012	.016	.022	.030	.060	.090
L	ABRASION SLEEVE (PTFE-AS1293)	LB/IN	.003	.004	.005	.005	.006	.007
NONE	FIRESLEEVE CLAMP /24/	LB/EA	.025	.025	.025	.026	.026	.033
NONE	FITTING END (45°) /24/	LB/EA	.060	.100	.150	.250	.430	.680
NONE	FITTING END (90°) /24/	LB/EA	.065	.095	.160	.240	.420	.700

TABLE 5 - SLEEVE LENGTHS

HOSE SIZE	LENGTH (in)
.250/.375	2.00 ± .25
.500/.625	2.50 ± .25
.750/1.000	3.00 ± .25

TABLE 6 - SPHERICAL BALL SIZE FOR DETERMINING
MINIMUM HOSE ASSEMBLY ID /2/

HOSE SIZE	ELBOW FITTING
E	.115
G	.204
H	.289
J	.349
K	.434
M	.646



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(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT,
BEAM SEAL, 45° TO 90°

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