

REV.
J

AS156™

FEDERAL SUPPLY CLASS
4720

RATIONALE

ADD CONFIGURATION FOR A NEW "N" CODE THIN WALL INTEGRAL FIRESLEEVE (15 MINUTE); ADD DRY FILM LUBE CONFIGURATION.

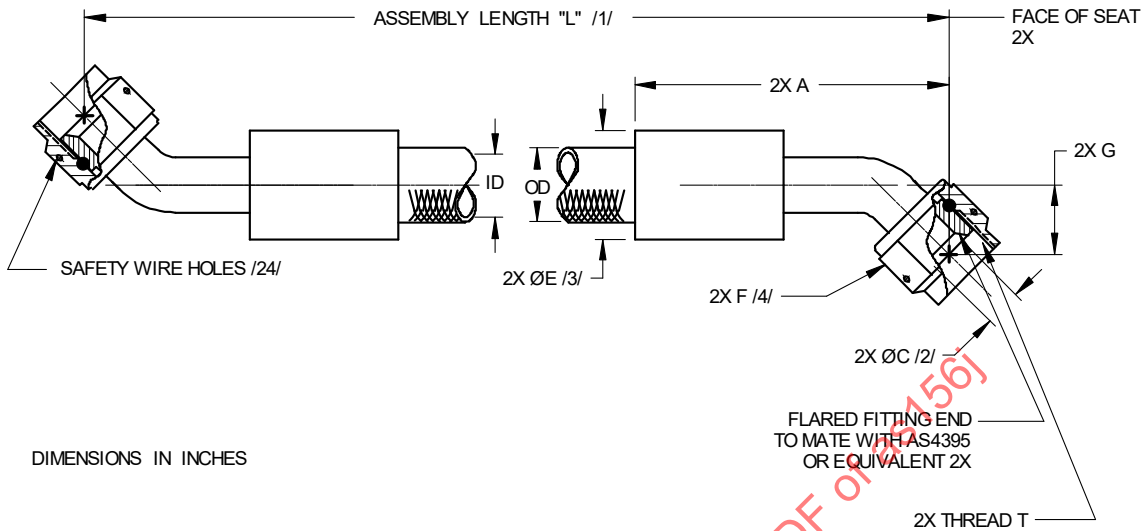


FIGURE 1 - HOSE AND FITTING DIMENSIONS

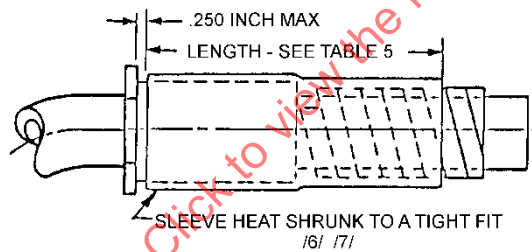
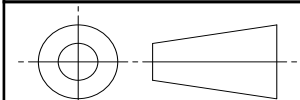


FIGURE 2 - TUBULAR/COIL ABRASION END

For more information on this standard, visit
<https://www.sae.org/standards/content/AS156J/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS1339 /20/



AEROSPACE STANDARD

HOSE ASSEMBLY, PTFE, CRES REINFORCED,
3000 PSI, 400 °F, 45° TO 45°,
FLARED, LIGHTWEIGHT

AS156™
SHEET 1 OF 7

REV.
J

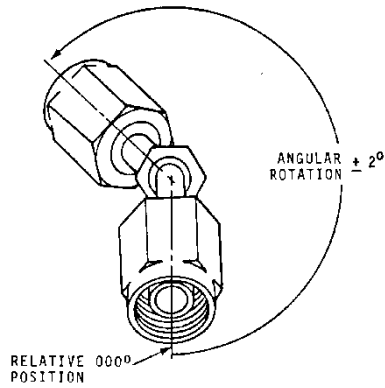


FIGURE 3 - FITTING ANGULAR ORIENTATION

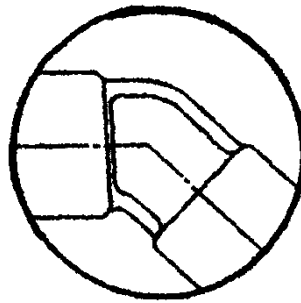


FIGURE 4 - ALTERNATE ELBOW CONFIGURATION /21/

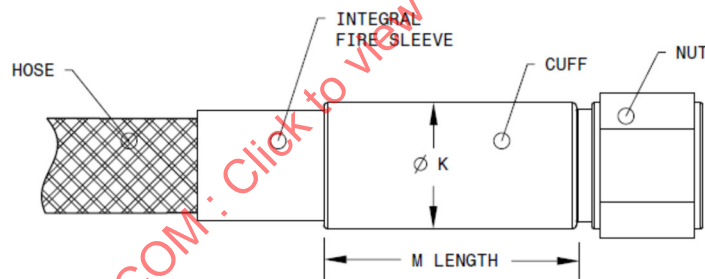


FIGURE 5 - INTEGRAL FIRESLEEVE DIMENSIONS - SEE TABLE 7 /27/

	AEROSPACE STANDARD		AS156™ SHEET 2 OF 7	REV. J
	HOSE ASSEMBLY, PTFE, CRES REINFORCED, 3000 PSI, 400 °F, 45° TO 45°, FLARED, LIGHTWEIGHT			

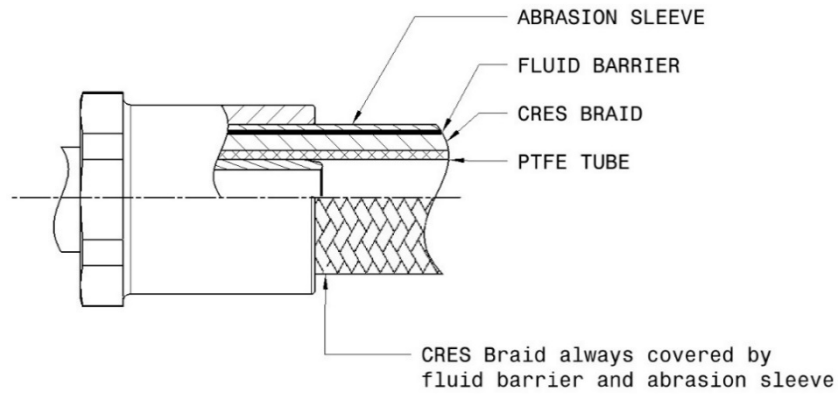


FIGURE 6 - FITTING CAPTURED INTEGRAL ABRASION SLEEVE WITH FLUID BARRIER /29/

TABLE 1 - ASSEMBLY DIMENSION

HOSE ASSEMBLY AS156 SIZE CODE	SIZE	THREAD T PER AS8879	ID MIN (REF)	A MAX	C /2/ DIA MIN	E /3/ DIA MAX WITHOUT SLEEVING	F HEX (REF)	G MIN	G MAX
E	.250	.4375-20 UNJF-3B	.212	2.08	.135	.69	.56	.280	.450
G	.375	.5625-18 UNJF-3B	.298	2.29	.240	.80	.69	.370	.565
H	.500	.7500-16 UNJF-3B	.391	2.61	.340	.97	.88	.430	.645
J	.625	.8750-14 UNJF-3B	.485	3.09	.410	1.11	1.00	.510	.675
K	.750	1.0625-12 UNJ-3B	.602	3.44	.510	1.38	1.25	.590	.720
M	1.000	1.3125-12 UNJ-3B	.852	3.75	.760	1.66	1.50	.680	.820

SAENORM.COM : Click to view the full PDF of AS156j



AEROSPACE STANDARD

HOSE ASSEMBLY, PTFE, CRES REINFORCED,
3000 PSI, 400 °F, 45° TO 45°,
FLARED, LIGHTWEIGHT

AS156™
SHEET 3 OF 7

REV.
J

TABLE 2 - HOSE AND SLEEVE OUTSIDE DIAMETER

SLEEVE CODE	SLEEVE MATERIAL	TEMP. LIMIT °F	TOLE- RANCE	HOSE OR SLEEVE OUTSIDE DIAMETER	HOSE OR SLEEVE OUTSIDE DIAMETER	HOSE OR SLEEVE OUTSIDE DIAMETER	HOSE OR SLEEVE OUTSIDE DIAMETER	HOSE OR SLEEVE OUTSIDE DIAMETER	HOSE OR SLEEVE OUTSIDE DIAMETER
				/5/ HOSE SIZE .250	/5/ HOSE SIZE .375	/5/ HOSE SIZE .500	/5/ HOSE SIZE .625	/5/ HOSE SIZE .750	/5/ HOSE SIZE 1.000
-	(-) INDICATES HOSE ONLY, NO SLEEVE (REFER TO AS1339)	400	MAX MIN						
A	ABRASION SLEEVE TUBULAR (TFE-AS1291-CODE B) /6/	400	MAX MIN	.500 .440	.600 .540	.730 .670	.840 .780	1.110 1.050	1.400 1.340
B	ABRASION SLEEVE COIL (NYLON AS1294) /7/	275	MAX MIN	.450 .390	.550 .490	.695 .635	.810 .750	1.080 1.020	1.360 1.300
C	FIRESLEEVE (AS1072 SIL-FG) (15 MINUTES) /8/ /9/ /13/	400	MAX MIN	.625 .500	.750 .625	.875 .750	1.000 .875	1.250 1.125	1.500 1.375
D	ABRASION SLEEVE INTEGRAL SILICONE COMPOSITE /10/ /14/	350	MAX MIN	.500 .460	.600 .560	.700 .660	.830 .790	1.120 1.070	1.400 1.350
E	ABRASION SLEEVE SHRINK-ON (FEP) /11/	350	MAX MIN	.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) /11/	275	MAX MIN	.450 .400	.560 .505	.695 .645	.810 .750	1.080 1.020	1.360 1.300
G	FIRESLEEVE (AS1072 SIL-FG) (5 MINUTES) /8/ /9/ /12/	400	MAX MIN	.625 .500	.750 .625	.875 .750	1.000 .875	1.250 1.125	1.500 1.375
H	FIRESLEEVE INTEGRAL SILICONE (15 MINUTES) /13/ /27/	400	MAX MIN	.660 .600	.745 .685	.895 .835	1.005 .945	1.240 1.160	1.515 1.455
J	FIRESLEEVE INTEGRAL SILICONE (5 MINUTES) /12/ /27/	400	MAX MIN	.660 .600	.745 .685	.895 .835	1.005 .945	1.240 1.160	1.515 1.455
K	INTEGRAL ABRASION SLEEVE (BRAIDED) POLYESTER /10/	300	MAX MIN	.490 .444	.570 .535	.695 .650	.800 .760	1.070 1.030	1.350 1.310
L	ABRASION SLEEVE COIL (PTFE-AS1293) /7/	400	MAX MIN	.500 .440	.600 .540	.730 .670	.862 .802	1.110 1.050	1.400 1.340
M	FITTING CAPTURED INTEGRAL ABRASION SLEEVE (BRAIDED) WITH FLUID BARRIER /29/	275	MAX MIN	.530 .444	.610 .530	.740 .650	.870 .760	1.105 1.025	1.450 1.300
N	THIN WALL FIRESLEEVE INTEGRAL SILICONE (15 MINUTES) /13/ /27/	400	MAX MIN	.625 .490	.725 .585	.850 .715	.955 .820	1.230 1.080	1.515 1.370

TABLE 3 - ASSEMBLY LENGTH TOLERANCE

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

	AEROSPACE STANDARD	AS156™ SHEET 4 OF 7	REV. J
	HOSE ASSEMBLY, PTFE, CRES REINFORCED, 3000 PSI, 400 °F, 45° TO 45°, FLARED, LIGHTWEIGHT		

TABLE 4 - HOSE WEIGHT MAX - ALL OTHERS REFERENCE

HOSE OR SLEEVE CODE	HOSE OR TYPE SLEEVE	UNITS	HOSE SIZE .250	HOSE SIZE .375	HOSE SIZE .500	HOSE SIZE .625	HOSE SIZE .750	HOSE SIZE 1.000
-	HOSE ONLY	LB/IN	.009	.015	.020	.027	.058	.085
A	ABRASION SLEEVE (TFE-AS1291- CODE 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 MINUTES) AS1072	LB/IN	.007	.009	.011	.012	.017	.021
D	ABRASION SLEEVE INTEGRAL WITH HOSE	LB/IN	.012	.016	.024	.034	.067	.110
E	ABRASION SLEEVE (FEP)	LB/IN	.002	.003	.003	.005	.006	.007
F	ABRASION SLEEVE (AS1073 - CODE B)	LB/IN	.002	.003	.003	.004	.005	.006
G	FIRESLEEVE (5 MINUTES) AS1072	LB/IN	.007	.009	.011	.012	.017	.021
H	FIRESLEEVE INTEGRAL (15 MINUTES) WITH HOSE	LB/IN	.019	.027	.035	.047	.099	.117
J	FIRESLEEVE INTEGRAL (5 MINUTES) WITH 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
M	FITTING CAPTURED INTEGRAL ABRASION SLEEVE (BRAIDED) WITH FLUID BARRIER	LB/IN	.004	.005	.006	.007	.010	.015
N	THIN WALL FIRESLEEVE INTEGRAL (15 MINUTES) WITH HOSE	LB/IN	.018	.026	.034	.045	.098	.117
NONE	FIRESLEEVE CLAMP	LB/EA	.025	.025	.025	.026	.026	.026
NONE	FITTING END (HOSE SIZE - 45°) /30/	LB/EA	.075	.121	.207	.306	.566	.780

TABLE 5 - SLEEVE LENGTH

HOSE SIZE	LENGTH (INCHES)
E G	2.00 ± .25
H J	2.50 ± .25
K M	3.00 ± .25

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

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

TABLE 7 - INTEGRAL FIRE SLEEVE CUFF DIMENSIONS /27/

HOSE SIZE	"K" MAX (INCHES)	"M" MAX (INCHES)
E	.96	2.05
G	1.08	2.18
H	1.22	2.55
J	1.37	2.67
K	1.54	2.67
M	1.87	3.10

	AEROSPACE STANDARD	AS156™ SHEET 5 OF 7	REV. J
	HOSE ASSEMBLY, PTFE, CRES REINFORCED, 3000 PSI, 400 °F, 45° TO 45°, FLARED, LIGHTWEIGHT		