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REV.
E

AS116

FEDERAL SUPPLY CLASS
4720

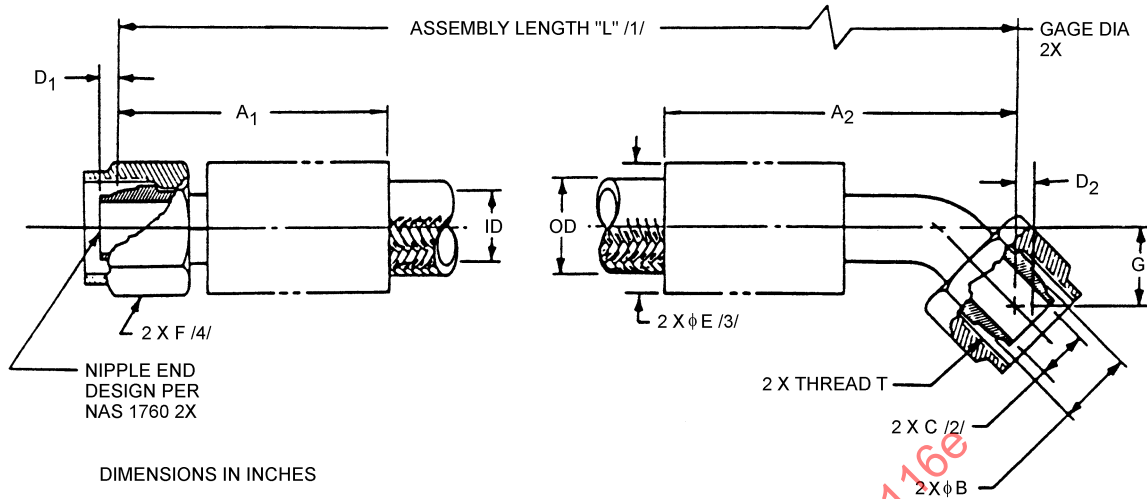


FIGURE 1 - HOSE AND FITTING DIMENSIONS

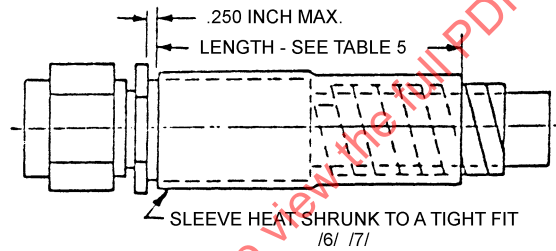


FIGURE 2 - TUBULAR/COIL ABRASION END

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS1339 /20/

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400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

HOSE ASSEMBLY, PTFE, CRES BRAID,
3000 PSIG, 400 °F, STRAIGHT TO 45°
FLARELESS, LIGHTWEIGHT

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REV. E	TABLE 1 - ASSEMBLY DIMENSIONS													
	HOSE ASSEMBLY AS116 SIZE CODE SIZE		THREAD T PER AS8879	ID MIN (REF)	A ₁ MAX	A ₂ MAX	B GAGE DIA BASIC	C /2/ DIA MIN	D ₁ (REF)	D ₂ (REF)	E /3/ DIA MAX WITHOUT SLEEVING	F HEX (REF)	G MIN	G MAX
AS116	04	.250	.4375-20 UNJF-3B	.212	1.56	2.12	.2930	.135	.16	.11	.69	.56	.31	.50
	06	.375	.5625-18 UNJF-3B	.298	1.75	2.44	.4120	.240	.16	.12	.80	.69	.44	.62
	08	.500	.7500-16 UNJF-3B	.391	2.00	2.75	.5600	.340	.19	.13	.97	.88	.50	.75
	10	.625	.8750-14 UNJF-3B	.485	2.25	3.25	.6730	.410	.20	.14	1.11	1.00	.56	.81
	12	.750	1.0625-12 UNJ-3B	.602	2.50	3.75	.8100	.510	.23	.16	1.38	1.25	.62	.88
	16	1.000	1.3125-12 UNJ-3B	.852	3.00	4.50	1.0620	.760	.30	.21	1.66	1.50	.81	1.09

TABLE 2 - HOSE AND SLEEVE OUTSIDE DIAMETER															
SLEEVE CODE	SLEEVE MATERIAL	TEMP. LIMIT °F	TOLE- RANCE	HOSE OR SLEEVE OUTSIDE DIAMETER /5/ HOSE SIZE .250		HOSE OR SLEEVE OUTSIDE DIAMETER /5/ HOSE SIZE .375		HOSE OR SLEEVE OUTSIDE DIAMETER /5/ HOSE SIZE .500		HOSE OR SLEEVE OUTSIDE DIAMETER /5/ HOSE SIZE .625		HOSE OR SLEEVE OUTSIDE DIAMETER /5/ HOSE SIZE .750		HOSE OR SLEEVE OUTSIDE DIAMETER /5/ HOSE SIZE 1.000	
-	(-) INDICATES HOSE ONLY, NO SLEEVE (AS1624)	400	MAX MIN	.390 .360	.490 .455	.615 .585	.730 .690	.990 .950	1.270 1.230						
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 min) /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 min) /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 min) (AS1722) /13/	400	MAX MIN	.660 .600	.745 .685	.895 .835	1.005 .945	1.220 1.160	1.515 1.455						
J	FIRESLEEVE INTEGRAL SILICONE (5 min) /12/	400	MAX MIN	.660 .600	.745 .685	.895 .835	1.005 .945	1.220 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						

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	HOSE ASSEMBLY, PTFE, CRES BRAID, 3000 PSIG, 400 °F, STRAIGHT TO 45° FLARELESS, LIGHTWEIGHT		

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TABLE 3 - ASSEMBLY LENGTH TOLERANCE

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%

TABLE 4 - WEIGHT

HOSE OR SLEEVE CODE	HOSE OR TYPE SLEEVE	UNITS	MAXIMUM WEIGHT HOSE SIZE .250	MAXIMUM WEIGHT HOSE SIZE .375	MAXIMUM WEIGHT HOSE SIZE .500	MAXIMUM WEIGHT HOSE SIZE .625	MAXIMUM WEIGHT HOSE SIZE .750	MAXIMUM WEIGHT HOSE SIZE 1.000
-	HOSE ONLY	LB/IN	.009	.015	.020	.027	.055	.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 min) 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 min) AS1072	LB/IN	.007	.009	.011	.012	.017	.021
H	FIRESLEEVE INTEGRAL (15 min) WITH HOSE	LB/IN	.019	.027	.035	.047	.099	.117
J	FIRESLEEVE INTEGRAL (5 min) 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
NONE	FIRESLEEVE CLAMP	LB/EA	.020	.020	.025	.026	.026	.033
NONE	FITTING END (HOSE SIZE - STRAIGHT)	LB/EA	.060	.090	.150	.240	.520	.713
NONE	FITTING END (HOSE SIZE - 45°)	LB/EA	.078	.126	.218	.327	.597	.860

TABLE 5 - SLEEVE LENGTH

HOSE SIZE	LENGTH (INCHES)
04	2.00 ± .25
06	
08	2.50 ± .25
10	
12	3.00 ± .25
16	

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

HOSE SIZE	STRAIGHT FITTING	ELBOW FITTING
04	.122	.115
06	.216	.204
08	.306	.289

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

HOSE SIZE	STRAIGHT FITTING	ELBOW FITTING
10	.369	.349
12	.459	.434
16	.684	.646

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