

REV.
D

AS623™

RATIONALE

ADD CONFIGURATION FOR A NEW "N" CODE THIN WALL INTEGRAL FIRESLEEVE (15 MINUTE); TABLE 2 DIMENSIONS CHANGED TO ALIGN WITH AS604 AND AS627-632 STANDARDS; NOTE 2 CHANGED TO CURRENT PRI STANDARD.

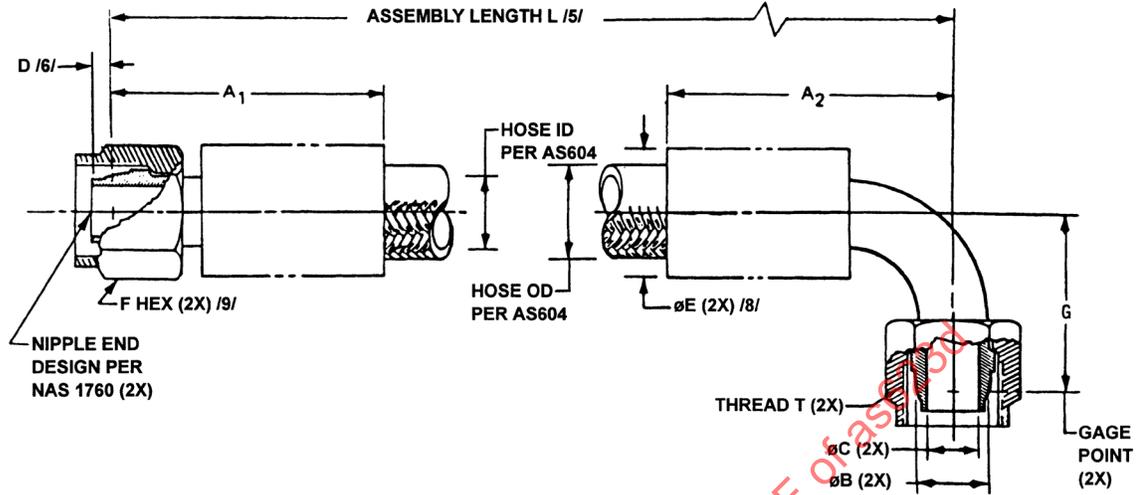


FIGURE 1 - HOSE AND FITTING DIMENSIONS

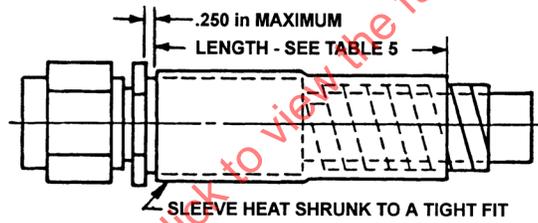
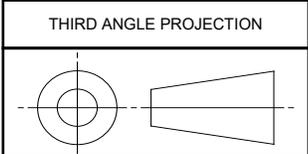


FIGURE 2 - TUBULAR/COIL ABRASION END /10/ /11/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS623D/>



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS604 /2/



AEROSPACE STANDARD

HOSE ASSEMBLY, 3000 PSI, PTFE, FLARELESS,
STRAIGHT TO 90°, HEAVYWEIGHT

AS623™
SHEET 1 OF 6

REV.
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TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY AS623 SIZE CODE	HOSE ASSEMBLY SIZE (REF)	THREAD T PER AS8879 (REF)	A		B		D (REF)	E MAX WITHOUT SLEEVING	F HEX (REF)
			A ₁ MAX	A ₂ MAX	GAGE BASIC	C /I/ MIN			
04	.250	.4375-20 UNJF-3B	1.56	1.58	.2930	.135	.16	.88	.56
06	.375	.5625-18 UNJF-3B	1.80	1.80	.4120	.240	.16	1.00	.69
08	.500	.7500-16 UNJF-3B	2.06	2.40	.5600	.340	.19	1.20	.88
10	.625	.8750-14 UNJF-3B	2.44	3.04	.6730	.410	.20	1.41	1.00
12	.750	1.0625-12 UNJ-3B	2.56	3.35	.8100	.510	.23	1.69	1.25
16	1.00	1.3125-12 UNJ-3B	3.00	4.26	1.0620	.760	.30	2.00	1.50
20	1.25	1.6250-12 UNJ-3B	3.00	4.72	1.3160	.925	.30	2.13	2.00

TABLE 1 - ASSEMBLY DIMENSIONS (CONTINUED)

HOSE ASSEMBLY AS623 SIZE CODE	HOSE ASSEMBLY SIZE (REF)	G		INSPECTION BALL SIZE /I/ STRAIGHT END FITTING	INSPECTION BALL SIZE /I/ ELBOW END FITTING
		MIN	MAX	DIA IN	DIA IN
04	.250	.69	.88	.122	.115
06	.375	.88	1.09	.166	.204
08	.500	1.00	1.31	.306	.289
10	.625	1.19	1.50	.369	.349
12	.750	1.38	1.75	.459	.434
16	1.00	1.69	2.06	.684	.646
20	1.25	2.51	2.57	.833	.786

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TABLE 2 - HOSE OR SLEEVE OUTSIDE DIAMETER /14/

SLEEVE CODE	SLEEVE MATERIAL	TEMP. LIMIT °F	HOSE SIZE .250	HOSE SIZE .375	HOSE SIZE .500	HOSE SIZE .625	HOSE SIZE .750	HOSE SIZE 1.00	HOSE SIZE 1.25
NONE	(-) INDICATES HOSE ONLY, NO SLEEVE	400	.465 .405	.595 .535	.735 .675	.935 .875	1.090 1.030	1.410 1.350	1.650 1.560
A	ABRASION SLEEVE TUBULAR (TFE-AS1291-CODE B) /10/	400	.540 .468	.715 .635	.855 .770	1.025 .960	1.195 1.125	1.515 1.445	1.825 1.755
B	ABRASION SLEEVE COIL (NYLON AS1294) /11/	275	.509 .413	.684 .584	.809 .733	1.005 .923	1.170 1.088	1.492 1.408	1.750 1.690
C	FIRESLEEVE (AS1072 SIL-FG) (15 MINUTES) /12/ /13/ /18/	400	.688 .562	.875 .750	1.000 .875	1.250 1.125	1.375 1.250	1.750 1.625	2.000 1.875
E	ABRASION SLEEVE SHRINK-ON (FEP) /16/	350	.458 .417	.638 .592	.773 .727	.973 .927	1.148 1.102	1.438 1.392	1.688 1.632
F	ABRASION SLEEVE SHRINK-ON (POLYOLEFIN AS1073 - CODE B) /16/	275	.490 .440	.670 .610	.795 .745	.997 .937	1.174 1.112	1.482 1.428	1.740 1.680
G	FIRESLEEVE (AS1072 SIL-FG) (5 MINUTES) /12/ /13/ /17/	400	.688 .562	.875 .750	1.000 .875	1.250 1.125	1.375 1.250	1.750 1.625	2.000 1.875
H	FIRESLEEVE INTEGRAL SILICONE (15 MINUTES) /18/	400	.700 .640	.880 .820	1.000 .940	1.203 1.143	1.343 1.283	1.656 1.596	1.906 1.846
J	FIRESLEEVE INTEGRAL SILICONE (5 MINUTES) /17/	400	.705 .645	.880 .820	1.005 .945	1.217 1.143	1.382 1.280	1.748 1.593	1.906 1.846
K	INTEGRAL ABRASION SLEEVE (BRAIDED) POLYESTER /15/	300	.505 .480	.675 .645	.795 .765	.985 .955	1.150 1.120	1.470 1.440	1.720 1.680
L	ABRASION SLEEVE COIL (PTFE-AS1293) /11/	400	.522 .449	.692 .622	.817 .747	1.007 .937	1.172 1.102	1.492 1.422	1.750 1.690
N	THIN WALL FIRESLEEVE INTEGRAL SILICONE (15 MINUTES) /18/	400	.650 .590	.790 .730	.930 .870	1.130 1.070	1.295 1.235	1.630 1.570	1.860 1.800

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%

	AEROSPACE STANDARD	AS623™ SHEET 3 OF 6	REV. D
	HOSE ASSEMBLY, 3000 PSI, PTFE, FLARELESS, STRAIGHT TO 90°, HEAVYWEIGHT		

TABLE 4 - WEIGHTS (NOMINAL)

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 1.00	HOSE SIZE 1.25
NONE	HOSE ONLY	LB/IN	.012	.028	.040	.062	.086	.140	.154
A	ABRASION SLEEVE (TFE-AS1291-CODE B)	LB/IN	.003	.004	.004	.005	.007	.009	.011
B	ABRASION SLEEVE (NYLON AS1294)	LB/IN	.001	.002	.003	.003	.004	.005	.007
C	FIRESLEEVE (15 MINUTES) AS1072	LB/IN	.007	.010	.011	.015	.017	.021	.025
E	ABRASION SLEEVE (FEP)	LB/IN	.002	.003	.003	.005	.006	.007	.009
F	ABRASION SLEEVE (AS1073-CODE B)	LB/IN	.002	.003	.003	.004	.005	.006	.008
G	FIRESLEEVE (5 MINUTES) AS1072	LB/IN	.007	.010	.011	.015	.017	.021	.025
H	FIRESLEEVE INTEGRAL (15 MINUTES) ON HOSE	LB/IN	.022	.042	.056	.081	.102	.154	.190
J	FIRESLEEVE INTEGRAL (5 MINUTES) ON HOSE	LB/IN	.022	.042	.056	.081	.102	.154	.190
K	ABRASION SLEEVE POLYESTER WITH HOSE	LB/IN	.013	.028	.039	.060	.082	.130	.160
L	ABRASION SLEEVE (PTFE-AS1293)	LB/IN	.003	.004	.005	.005	.006	.007	.009
N	THIN WALL FIRESLEEVE INTEGRAL (15 MINUTES) ON HOSE	LB/IN	.020	.038	.052	.072	.101	.163	.173
NONE	FIRESLEEVE CLAMP (*)	LB/EA	.020	.020	.025	.026	.026	.033	.038
NONE	FITTING END (STRAIGHT) (*)	LB/EA	.070	.117	.172	.266	.520	.713	1.400
NONE	FITTING END (90°) (*)	LB/EA	.078	.136	.233	.327	.615	.945	1.710

(*) NOTE: FIRESLEEVE CLAMP AND FITTING END ARE IN POUNDS EACH.

TABLE 5 - SLEEVE LENGTH

HOSE SIZE	LENGTH (INCHES)
.250	2.00 ± .25
.375	
.500	2.50 ± .25
.625	
.750	3.00 ± .25
1.00	
1.25	3.50 ± .25

	AEROSPACE STANDARD	AS623™ SHEET 4 OF 6	REV. D
	HOSE ASSEMBLY, 3000 PSI, PTFE, FLARELESS, STRAIGHT TO 90°, HEAVYWEIGHT		