

REV. C

SAE AS4624

FEDERAL SUPPLY CLASS 4720

RATIONALE

ADDED "K" CODE SLEEVE WITH CUFF

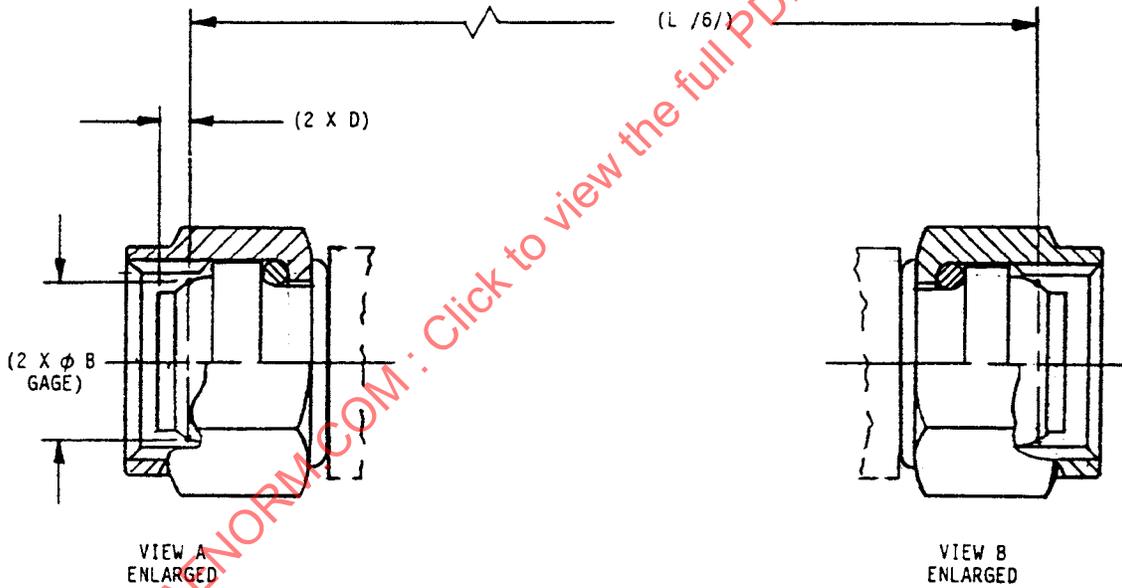
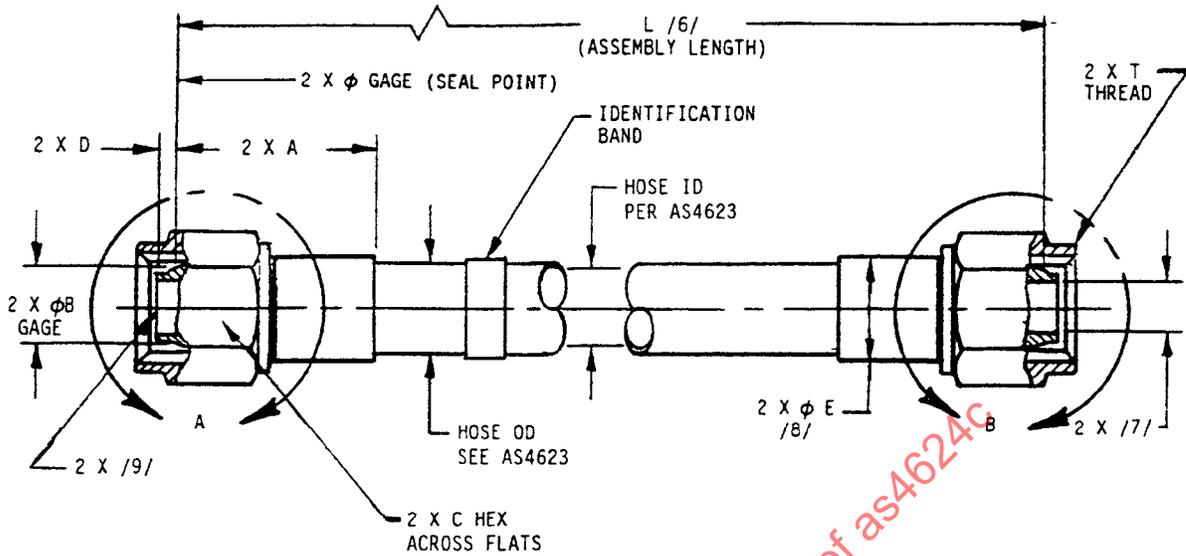
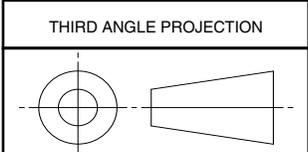


FIGURE 1 - FLARELESS HOSE ASSEMBLY, STRAIGHT TO STRAIGHT

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CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ AS4623

SAE Aerospace
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AEROSPACE STANDARD

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, PARA ARAMID REINFORCED, HEAVY-DUTY, 275 °F, 3000 PSI FLARELESS TITANIUM FITTINGS, INCLUDING JUMP SIZE, STRAIGHT TO STRAIGHT

SAE AS4624
SHEET 1 OF 6

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ISSUED 1992-06 REAFFIRMED 2004-06 REVISED 2009-03

TABLE 1 – HOSE AND FITTING DIMENSIONS

BASIC HOSE ASSEMBLY NO. AS4624 SIZE CODE	SIZE	/14/ FITTING TYPE	THREAD T PER AS8879	A MAX	Ø B GAGE BASIC	C HEX	D	E Ø/8/ MAX	BALL SIZE MIN THRU /7/ IN
E	0.250	--	--	--	--	--	--	--	--
E	0.250	S	0.4375-20UNJF-3B	1.630	0.2930	0.56	0.16	0.69	0.109
E	0.250	E	0.5625-18UNJF-3B	1.695	0.4120	0.69	0.16	0.69	0.109
G	0.375	R	0.4375-20UNJF-3B	1.740	0.2930	0.56	0.16	0.80	0.109
G	0.375	S	0.5625-18UNJF-3B	1.835	0.4120	0.69	0.16	0.80	0.188
G	0.375	E	0.7500-16UNJF-3B	1.930	0.5600	0.88	0.19	0.80	0.188
H	0.500	R	0.5625-18UNJF-3B	2.145	0.4120	0.69	0.16	0.97	0.188
H	0.500	S	0.7500-16UNJF-3B	2.165	0.5600	0.88	0.19	0.97	0.313
H	0.500	E	0.8750-14UNJF-3B	2.675	0.6730	1.00	0.20	0.97	0.313
J	0.625	R	0.7500-16UNJF-3B	2.860	0.5600	0.88	0.19	1.15	0.313
J	0.625	S	0.8750-14UNJF-3B	2.905	0.6730	1.00	0.20	1.15	0.375
J	0.625	E	1.0625-12UNJ-3B	2.920	0.8100	1.25	0.23	1.15	0.375
K	0.750	R	0.8750-14UNJF-3B	3.240	0.6730	1.00	0.20	1.38	0.375
K	0.750	S	1.0625-12UNJ-3B	3.205	0.8100	1.25	0.23	1.38	0.469
K	0.750	E	1.3125-12UNJ-3B	3.320	1.0620	1.50	0.30	1.38	0.469
M	1.000	R	1.0625-12UNJ-3B	3.690	0.8100	1.25	0.23	1.66	0.469
M	1.000	S	1.3125-12UNJ-3B	3.740	1.0620	1.50	0.30	1.66	0.719
M	1.000	E	1.5625-12UNJ-3B	3.570	1.3160	1.81	0.04	1.66	0.719
N	1.250	--	--	--	--	--	--	--	--
N	1.250	S	1.5625-12UNJ-3B	4.330	1.3160	1.81	0.04	2.32	0.875
N	1.250	--	--	--	--	--	--	--	--

TABLE 2 – HOSE OR SLEEVE OUTSIDE DIAMETERS /10/

SLEEVE CODE	SLEEVE MATERIAL	TEMP LIMIT °F	HOSE SIZE												
			0.250	0.375	0.500	0.625	0.750	1.000	1.250	1.500	1.750	2.000			
-	(-) INDICATES HOSE ONLY NO SLEEVE (SEE AS4623)	275	--	--	--	--	--	--	--	--	--	--	--	--	--
A	FIRE SLEEVE (AS1072 SIL-FG) (5 MIN) /11/ /12/ /13/	275	0.930/0.730	1.070/0.880	1.205/1.015	1.370/1.130	1.590/1.380	1.847/1.677	2.130/1.950						
B	ABRASION SLEEVE SHRINK-ON (POLYOLEFIN AS1073-CODE B) /20/	275	0.596/0.524	0.760/0.680	0.905/0.825	1.030/0.940	1.302/1.198	1.599/1.495	0.884/1.776						
K	INTEGRAL ABRASION SLEEVE (BRAIDED) POLYESTER /21/	275	0.555/0.635	0.675/0.755	0.840/0.920	0.935/1.025	1.205/1.305	1.502/1.602	1.775/1.875						

TABLE 3 – HOSE ASSEMBLY LENGTH TOLERANCES

HOSE ASSEMBLY LENGTH	TOLERANCE
UNDER 18 IN	± 0.125 IN
18 TO 36 IN EXCLUSIVE	± 0.250 IN
36 TO 50 IN EXCLUSIVE	± 0.500 IN
50 IN AND OVER	± 1%

TABLE 4 – CUFF LENGTHS

HOSE SIZE	LENGTH (INCHES) ± 0.25
0.250	2.25
0.375	2.75
0.500	3.50
0.625	4.25
0.750	5.75
1.000	6.00
1.250	6.75

TABLE 5 – MAXIMUM HOSE AND FITTING WEIGHTS

HOST OR SLEEVE CODE	HOSE, PART OR SLEEVE	UNITS	HOSE SIZE											
			0.250	0.375	0.500	0.625	0.750	1.000	1.250					
-	HOSE ONLY (SEE AS4623)	LB/IN	--	--	--	--	--	--	--	--	--	--	--	--
A	FIRE SLEEVE AS1072 (5 MIN PER AS1055) /15/	LB/IN	--	--	--	--	--	--	--	--	--	--	--	--
B	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073, CODE B) /20/	LB/IN	0.0006	0.0012	0.0018	0.0018	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0049	0.0049
NONE	FIRE SLEEVE CLAMP	LB/EA	0.020	0.020	0.021	0.021	0.025	0.025	0.025	0.025	0.025	0.032	0.032	0.032
NONE	FITTING END (STRAIGHT) /14/ /46/	R LB/EA	--	0.077	0.118	0.186	0.427	0.427	0.427	0.427	0.427	0.823	--	--
		S LB/EA	0.054	0.081	0.135	0.200	0.476	0.476	0.476	0.476	0.476	0.853	TBD /9/	TBD /9/
		E LB/EA	0.074	0.115	0.193	0.267	0.591	0.591	0.591	0.591	0.591	1.000	--	--
K	ABRASION SLEEVE POLYESTER WITH HOSE /21/	LB/IN	0.013	0.017	0.023	0.026	0.035	0.035	0.035	0.035	0.035	0.058	0.058	0.078

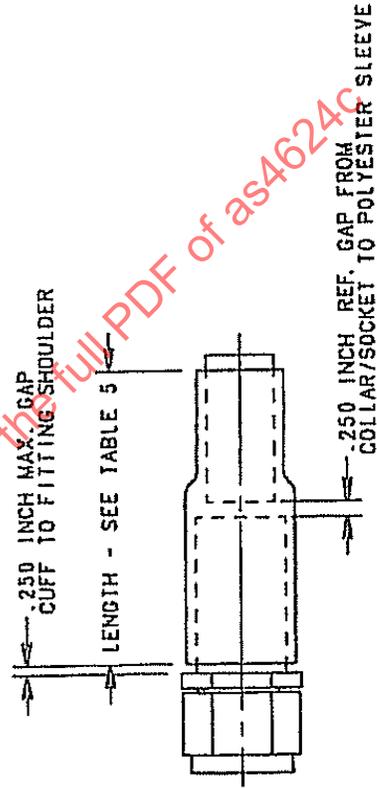


FIGURE 2 – POLYESTER ABRASION SLEEVE CUFF /21/