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SAE AS4625

RATIONALE

FEDERAL SUPPLY CLASS
4720

ADDED "K" CODE SLEEVE WITH CUFF.

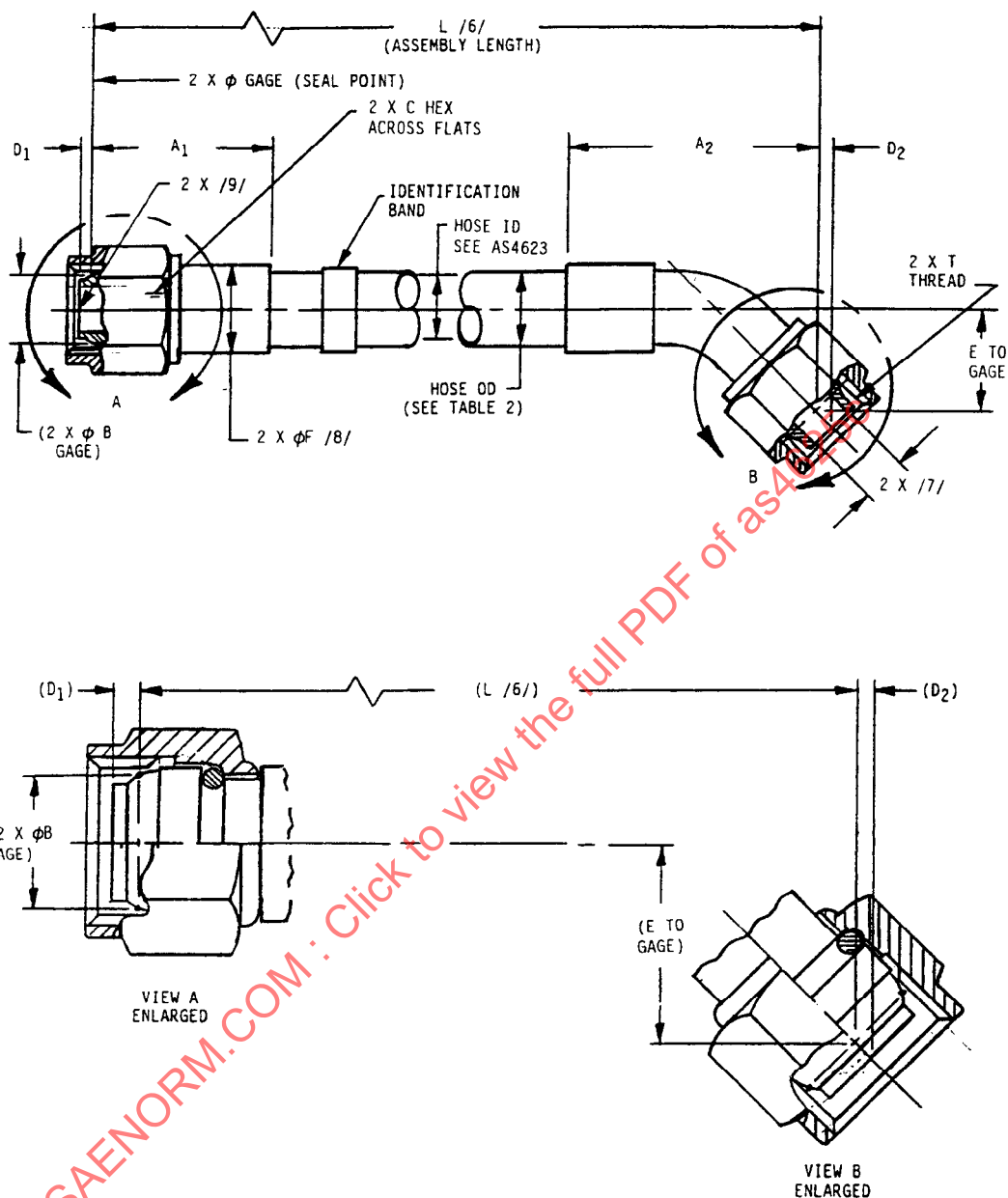
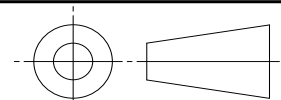


FIGURE 1 - FLARELESS HOSE ASSEMBLY
STRAIGHT TO 45° ELBOW

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<http://www.sae.org/technical/standards/AS4625C>

THIRD ANGLE PROJECTION



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 45°

SAE AS4625
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TABLE 1 – HOSE AND FITTING DIMENSIONS

BASIC HOSE ASSEMBLY NO. 4625 SIZE CODE	SIZE	FITTING TYPE	THREAD T PER AS8879	A ₁ MAX	A ₂ MAX	B GAGE BASIC	(C) HEX	D ₁	D ₂	E MAX	E MIN	F /8/ MAX	BALL SIZE MIN THRU /7/ IN
E	0.250	--	--	--	--	--	--	--	--	--	--	--	--
E	0.250	S	0.4375-20UNJF-3B	1.630	2.160	0.2930	0.56	0.16	0.11	0.475	0.350	0.69	0.109
E	0.250	E	0.5625-18UNJF-3B	1.695	2.240	0.4120	0.69	0.16	0.12	0.500	0.375	0.69	0.109
G	0.375	R	0.4375-20UNJF-3B	1.740	2.620	0.2930	0.56	0.16	0.11	0.475	0.350	0.80	0.109
G	0.375	S	0.5625-18UNJF-3B	1.835	2.460	0.4120	0.69	0.16	0.12	0.500	0.375	0.80	0.188
G	0.375	E	0.7500-16UNJF-3B	1.930	2.770	0.5600	0.88	0.19	0.13	0.560	0.435	0.80	0.188
H	0.500	R	0.5625-18UNJF-3B	2.145	2.695	0.4120	0.69	0.16	0.12	0.500	0.375	0.97	0.188
H	0.500	S	0.7500-16UNJF-3B	2.165	2.740	0.5600	0.88	0.19	0.13	0.560	0.435	0.97	0.313
H	0.500	E	0.8750-14UNJF-3B	2.675	3.050	0.6730	1.00	0.20	0.14	0.670	0.545	0.97	0.313
J	0.625	R	0.7500-16UNJF-3B	2.860	3.685	0.5600	0.88	0.19	0.13	0.560	0.435	1.15	0.313
J	0.625	S	0.8750-14UNJF-3B	2.905	3.785	0.6730	1.00	0.20	0.14	0.670	0.545	1.15	0.375
J	0.625	E	1.0625-14UNJ-3B	2.920	3.875	0.8100	1.25	0.23	0.16	0.705	0.580	1.15	0.375
K	0.750	R	0.8750-14UNJF-3B	2.240	4.760	0.6730	1.00	0.20	0.14	0.670	0.545	1.38	0.375
K	0.750	S	1.0625-12UNJ-3B	3.205	4.810	0.8100	1.25	0.23	0.16	0.705	0.580	1.38	0.469
K	0.750	E	1.3125-12UNJ-3B	3.320	5.140	1.0620	1.50	0.30	0.21	0.840	0.715	1.38	0.469
M	1.000	R	1.0625-12UNJ-3B	3.690	5.350	0.8100	1.25	0.23	0.16	0.705	0.580	1.66	0.469
M	1.000	S	1.3125-12UNJ-3B	3.740	5.540	1.0620	1.50	0.30	0.21	0.840	0.715	1.66	0.719
M	1.000	E	1.5625-12UNJ-3B	3.570	5.760	1.3160	1.81	0.04	0.03	0.875	0.750	1.66	0.719
N	1.250	--	--	--	--	--	--	--	--	--	--	--	--
N	1.250	S	1.5625-12UNJ-3B	4.330	6.770	1.3160	1.81	0.04	0.03	0.875	0.750	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	HOSE SIZE 0.375	HOSE SIZE 0.500	HOSE SIZE 0.625	HOSE SIZE 0.750	HOSE SIZE 1.000	HOSE SIZE 1.250
-	(-) 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	1.884/1.776
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	REFERENCE WEIGHT				REFERENCE WEIGHT				REFERENCE WEIGHT				REFERENCE WEIGHT			
			LB/IN	HOSE SIZE	0.250	0.375	LB/IN	HOSE SIZE	0.500	0.625	LB/IN	HOSE SIZE	0.750	1.000	LB/IN	HOSE SIZE	1.250	
-	HOSE ONLY (SEE AS4623)	LB/IN	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
A	FIRESLEEVE (AS1072 SIL-FG) (5 MIN) /15/	LB/IN	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
B	ABRASION SLEEVE (AS1073 - CODE B) /20/	LB/IN	0.0006	0.0012	0.0018	0.0018	0.0018	0.0032	0.0032	0.0032	0.0049	0.0032	0.0032	0.0032	0.0049	0.0049		
NONE	FIRESLEEVE CLAMP	LB/EA	0.020	0.020	0.021	0.021	0.021	0.025	0.025	0.025	0.032	0.025	0.025	0.025	0.032	0.032		
NONE	FITTING END (STRAIGHT) /14/ /16/	R LB/EA	--	0.077	0.118	0.118	0.118	0.186	0.427	0.823	--	0.427	0.823	0.823	--	--		
NONE		S LB/EA	0.054	0.081	0.135	0.135	0.135	0.200	0.476	0.853	TBD /9/	0.476	0.853	0.853	TBD /9/	TBD /9/		
NONE		E LB/EA	0.074	0.115	0.193	0.193	0.193	0.267	0.591	1.000	--	0.591	1.000	1.000	--	--		
NONE	FITTING END (45 °) /14/ /16/	R LB/EA	--	0.099	0.132	0.132	0.132	0.242	0.454	0.839	--	0.454	0.839	0.839	--	--		
NONE		S LB/EA	0.066	0.110	0.154	0.154	0.154	0.275	0.535	0.944	TBD /9/	0.535	0.944	0.944	TBD /9/	TBD /9/		
NONE		E LB/EA	0.088	0.143	0.209	0.209	0.209	0.385	0.690	1.029	--	0.690	1.029	1.029	--	--		
K	ABRASION SLEEVE	LB/IN	0.013	0.017	0.023	0.023	0.023	0.026	0.035	0.058	0.078	0.035	0.058	0.058	0.078	0.078		
	POLYESTER WITH HOSE /21/																	

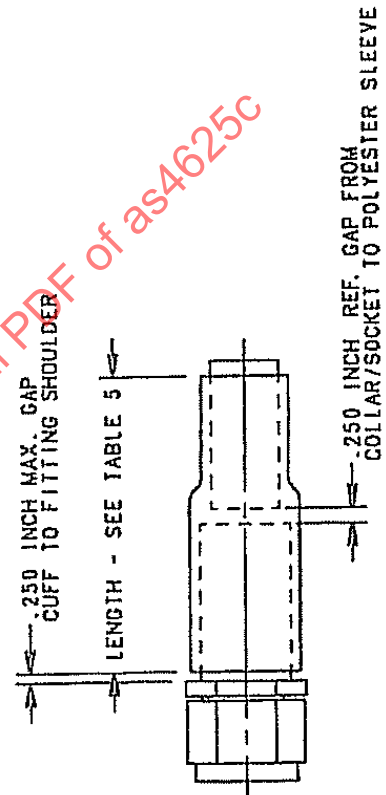


FIGURE 2 -- POLYESTER ABRASION SLEEVE CUFF /21/