

RATIONALE

AS4625D HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

REV.
D

AS4625

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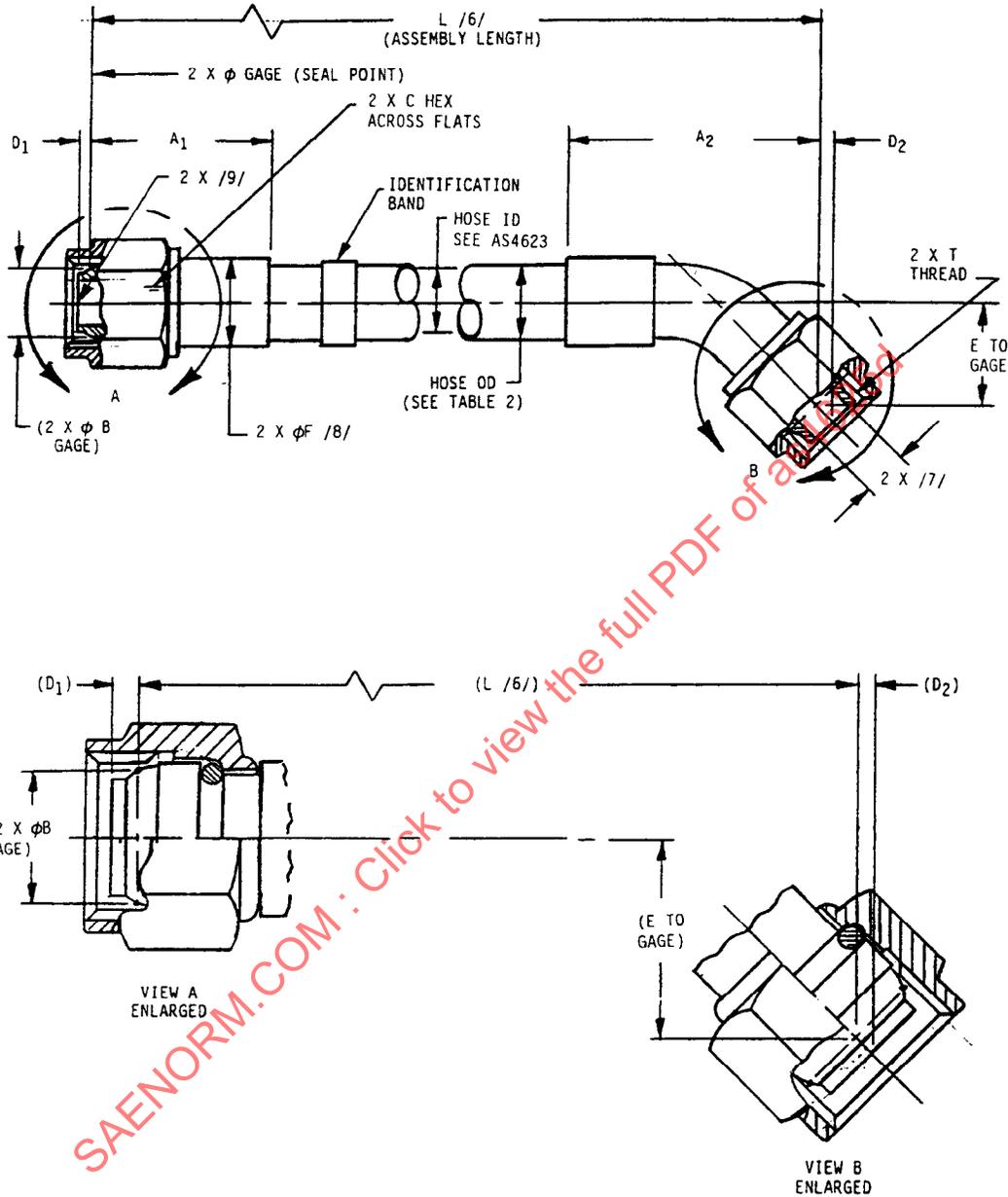
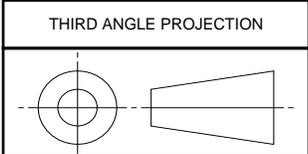


FIGURE 1 - FLARELESS HOSE ASSEMBLY
STRAIGHT TO 45° ELBOW

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CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ AS4623



AEROSPACE STANDARD
HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, PARA ARAMID REINFORCED, HEAVY-DUTY, 275 °F, 3000 PSI FLARELESS TITANIUM FITTINGS, INCLUDING JUMP SIZE, STRAIGHT TO 45°

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ISSUED 1992-06 REVISED 2009-07 REAFFIRMED 2015-04



AEROSPACE STANDARD

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, PARA ARAMID REINFORCED, HEAVY-DUTY, 275 °F, 3000 PSI FLARELESS TITANIUM FITTINGS, INCLUDING JUMP SIZE, STRAIGHT TO 45°

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TABLE 1 – HOSE AND FITTING DIMENSIONS

BASIC HOSE ASSEMBLY NO. 4625 SIZE CODE	/14/ 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												
E	S	0.4375-20UNJF-3B	1.630	2.160	0.2930	0.56	0.16	0.11	0.475	0.350	0.69	0.102
E	E	0.5625-18UNJF-3B	1.695	2.240	0.4120	0.69	0.16	0.12	0.500	0.375	0.69	0.102
G	R	0.4375-20UNJF-3B	1.740	2.620	0.2930	0.56	0.16	0.11	0.475	0.350	0.80	0.102
G	S	0.5625-18UNJF-3B	1.835	2.460	0.4120	0.69	0.16	0.12	0.500	0.375	0.80	0.174
G	E	0.7500-16UNJF-3B	1.930	2.770	0.5600	0.88	0.19	0.13	0.560	0.435	0.80	0.174
H	R	0.5625-18UNJF-3B	2.145	2.695	0.4120	0.69	0.16	0.12	0.500	0.375	0.97	0.174
H	S	0.7500-16UNJF-3B	2.165	2.740	0.5600	0.88	0.19	0.13	0.560	0.435	0.97	0.267
H	E	0.8750-14UNJF-3B	2.675	3.050	0.6730	1.00	0.20	0.14	0.670	0.545	0.97	0.267
J	R	0.7500-16UNJF-3B	2.860	3.685	0.5600	0.88	0.19	0.13	0.560	0.435	1.15	0.267
J	S	0.8750-14UNJF-3B	2.905	3.785	0.6730	1.00	0.20	0.14	0.670	0.545	1.15	0.323
J	E	1.0625-14UNJ-3B	2.920	3.875	0.8100	1.25	0.23	0.16	0.705	0.580	1.15	0.323
K	R	0.8750-14UNJF-3B	2.240	4.760	0.6730	1.00	0.20	0.14	0.670	0.545	1.38	0.323
K	S	1.0625-12UNJ-3B	3.205	4.810	0.8100	1.25	0.23	0.16	0.705	0.580	1.38	0.433
K	E	1.3125-12UNJ-3B	3.320	5.140	1.0620	1.50	0.30	0.21	0.840	0.715	1.38	0.433
M	R	1.0625-12UNJ-3B	3.690	5.350	0.8100	1.25	0.23	0.16	0.705	0.580	1.66	0.433
M	S	1.3125-12UNJ-3B	3.740	5.540	1.0620	1.50	0.30	0.21	0.840	0.715	1.66	0.646
M	E	1.5625-12UNJ-3B	3.570	5.760	1.3160	1.81	0.04	0.03	0.875	0.750	1.66	0.646
N												
N	S	1.5625-12UNJ-3B	4.330	6.770	1.3160	1.81	0.04	0.03	0.875	0.750	2.32	0.786
N												

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TABLE 2 – HOSE OR SLEEVE OUTSIDE DIAMETERS /10/

SLEEVE CODE	SLEEVE MATERIAL	TEMP LIMIT °F	HOSE SIZE	HOSE SIZE	HOSE SIZE	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	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



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TABLE 5 – MAXIMUM HOSE AND FITTING WEIGHTS

HOST OR SLEEVE CODE	HOSE, PART OR SLEEVE	UNITS	REFERENCE WEIGHT																						
			LB/IN	HOSE SIZE	0.250	LB/IN	HOSE SIZE	0.375	LB/IN	HOSE SIZE	0.500	LB/IN	HOSE SIZE	0.625	LB/IN	HOSE SIZE	0.750	LB/IN	HOSE SIZE	1.000	LB/IN	HOSE SIZE	1.250		
-	HOSE ONLY (SEE AS4623)	LB/IN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A	FIRE SLEEVE (AS1072 SLL-FG) (5 MIN) /15/	LB/IN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
B	ABRASION SLEEVE (AS1078 CODE B) /20/	LB/IN	0.0006	0.0012	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0032	0.0032	0.0032	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	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.025	0.025	0.025	0.025	0.025	0.025	0.025	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	0.118	0.118	0.118	0.118	0.118	0.186	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	--	--
NONE		S LB/EA	0.054	0.081	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.200	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	TBD /9/	TBD /9/
NONE		E LB/EA	0.074	0.115	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.267	0.591	0.591	0.591	0.591	0.591	0.591	0.591	0.591	0.591	0.591	--	--
NONE	FITTING END (45 °) /14/ /16/	R LB/EA	--	0.099	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.242	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	--	--
NONE		S LB/EA	0.066	0.110	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.275	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	TBD /9/	TBD /9/
NONE		E LB/EA	0.088	0.143	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.385	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	--	--
K	ABRASION SLEEVE	LB/IN	0.013	0.017	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.026	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.078	0.078
	POLYESTER WITH HOSE /21/																								

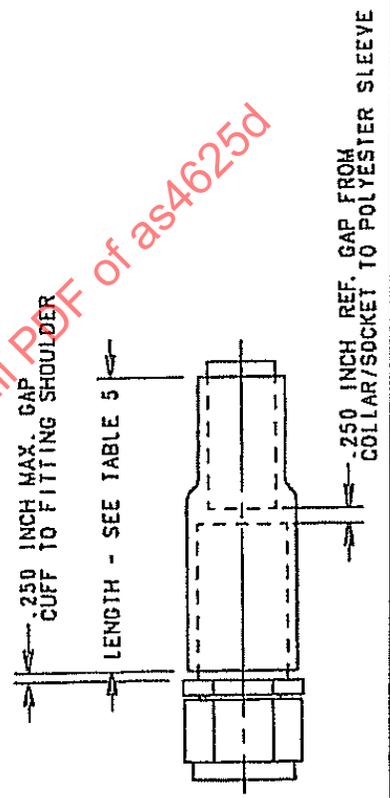


FIGURE 2 – POLYESTER ABRASION SLEEVE CUFF /21/