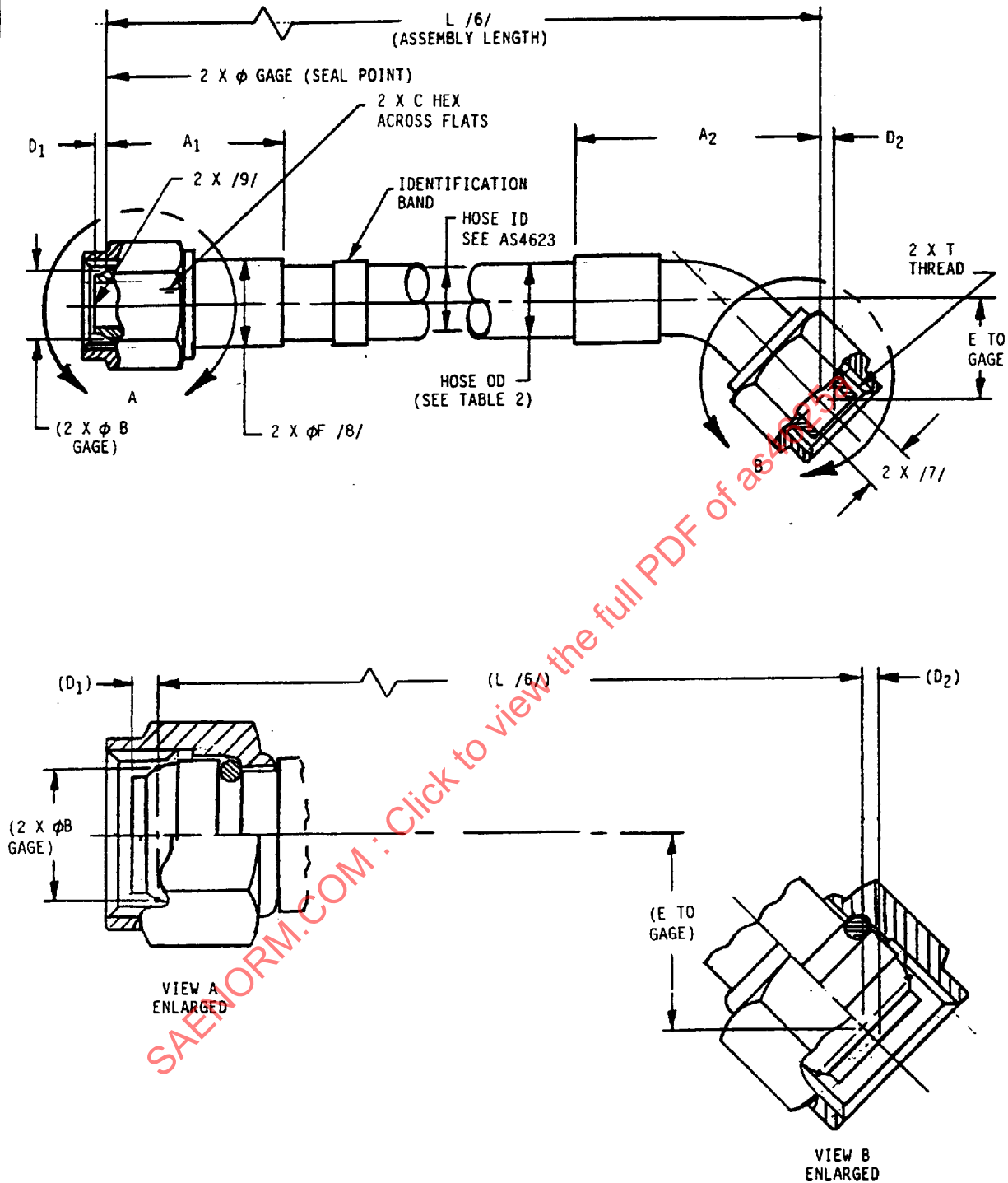


REV.
A

AS4625

FEDERAL SUPPLY CLASS
4720FIGURE 1 - FLARELESS HOSE ASSEMBLY
STRAIGHT TO 45° ELBOW

THIRD ANGLE PROJECTION

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ AS4623

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL

400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

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

AS4625

SHEET 1 OF 6

REV.**A**

AS4625

REV.
A

TABLE 1 - HOSE AND FITTING DIMENSIONS

BASIC HOSE ASSEMBLY NO. AS4625 SIZE CODE	(SIZE)	FITTING /14/ TYPE	(THREAD T) (PER MIL-S-8879)	A ₁ MAX	A ₂ MAX	B BASIC	C) HEX	D ₁	D ₂	E MAX	E MIN	F /8/ MAX	F THRU /7/ MS19059 DASH NO.	BALL SIZE MIN THRU /7/ IN
E	.250	--	--	--	--	--	--	--	--	--	--	--	--	--
E	.250	S	.4375-20UNJF-3B	1.630	2.160	.2930	.56	.16	.11	.475	.350	.69	4807	.109
E	.250	E	.5625-18UNJF-3B	1.695	2.240	.4120	.69	.16	.12	.500	.375	.69	4807	.109
G	.375	R	.4375-20UNJF-3B	1.740	2.620	.2930	.56	.16	.11	.475	.350	.80	4807	.109
G	.375	S	.5625-18UNJF-3B	1.835	2.460	.4120	.69	.16	.12	.500	.375	.80	4812	.188
G	.375	E	.7500-16UNJF-3B	1.930	2.770	.5600	.88	.19	.13	.560	.435	.80	4812	.188
H	.500	R	.5625-18UNJF-3B	2.145	2.695	.4120	.69	.16	.12	.500	.375	.97	4812	.188
H	.500	S	.7500-16UNJF-3B	2.165	2.740	.5600	.88	.19	.13	.560	.435	.97	4816	.313
H	.500	E	.8750-14UNJF-3B	2.675	3.050	.6730	1.00	.20	.14	.670	.545	.97	4816	.313
J	.625	R	.7500-16UNJF-3B	2.860	3.685	.5600	.88	.19	.13	.560	.435	1.15	4816	.313
J	.625	S	.8750-14UNJF-3B	2.905	3.785	.6730	1.00	.20	.14	.670	.545	1.15	4818	.375
J	.625	E	1.0625-12UNJ-3B	2.920	3.875	.8100	1.25	.23	.16	.705	.580	1.15	4818	.375
K	.750	R	.8750-14UNJF-3B	3.240	4.760	.6730	1.00	.20	.14	.670	.545	1.38	4818	.375
K	.750	S	1.0625-12UNJ-3B	3.205	4.810	.8100	1.25	.23	.16	.705	.580	1.38	4821	.469
K	.750	E	1.3125-12UNJ-3B	3.320	5.140	1.0620	1.50	.30	.21	.840	.715	1.38	4821	.469
M	1.000	R	1.0625-12UNJ-3B	3.690	5.350	.8100	1.25	.23	.16	.705	.580	1.66	4821	.469
M	1.000	S	1.3125-12UNJ-3B	3.740	5.540	1.0620	1.50	.30	.21	.840	.715	1.66	4829	.719
M	1.000	E	1.5625-12UNJ-3B	3.570	5.760	1.3160	1.81	.04	.03	.875	.750	1.66	4829	.719
N	1.250	--	--	--	--	--	--	--	--	--	--	--	--	--
N	1.250	S	1.5625-12UNJ-3B	4.330	6.770	1.3160	1.81	.04	.03	.875	.750	2.32	4834	.875
N	1.250	--	--	--	--	--	--	--	--	--	--	--	--	--

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL

AEROSPACE STANDARD

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

AS4625

SHEET 2 OF 6

REV.**A**

AS4625
REV.
A

TABLE 2 - HOSE OR SLEEVE OUTSIDE DIAMETERS /10/

SLEEVE CODE	SLEEVE MATERIAL	TEMP. LIMIT °F	HOSE SIZE	HOSE SIZE	HOSE SIZE	HOSE SIZE	HOSE SIZE	HOSE SIZE	HOSE SIZE	HOSE SIZE
			.250	.375	.500	.625	.750	1.000	1.250	1.500
-	(-) INDICATES HOSE ONLY NO SLEEVE (SEE AS4623)	275	--	--	--	--	--	--	--	--
A	FIRE SLEEVE (AS1072 STL-FG) (5 min) /11/ /12/ /13/	275	.930/.730	1.070/.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	.596/.524	.760/.680	.905/.825	1.030/.940	1.302/1.198	1.599/1.495	1.884/1.776	

TABLE 3 - HOSE ASSEMBLY LENGTH TOLERANCES

HOSE ASSEMBLY LENGTH	TOLERANCE
UNDER 18 in	±.125 in
18 THRU 36 in	±.250 in
OVER 36 THRU 50 in	±.500 in
OVER 50 in	±1%

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL

AEROSPACE STANDARD

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

AS4625

SHEET 3 OF 6

REV.**A**

AS4625

REV.
A

TABLE 4 - MAXIMUM HOSE AND FITTING WEIGHTS

HOSE OR SLEEVE CODE	HOSE, PORT OR SLEEVE	UNITS	REFERENCE WEIGHT			REFERENCE WEIGHT			REFERENCE WEIGHT			REFERENCE WEIGHT			REFERENCE WEIGHT		
			LB/IN	HOSE SIZE	LB/IN	HOSE SIZE	LB/IN	HOSE SIZE	LB/IN	HOSE SIZE	LB/IN	HOSE SIZE	LB/IN	HOSE SIZE	LB/IN	HOSE SIZE	LB/IN
--	HOSE ONLY (SEE AS4623)	LB/IN	--	.250	--	.375	--	.500	--	.625	--	.750	--	1.000	--	1.250	--
A	FIRE SLEEVE (AS1072 SIL-FG) (5 min) /15/	LB/IN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B	ABRASION SLEEVE (AS1073B) /20/	LB/IN	.0006	--	.0012	.0018	.0018	.0018	.0032	.0032	.0032	.0032	.0049	.0032	.0032	.0032	.0049
NONE	FIRE SLEEVE CLAMP	LB/EA	.020	.020	.020	.021	.021	.021	.025	.025	.025	.025	.032	.025	.025	.032	.032
NONE	FITTING END (STRAIGHT) /14/ /16/	R LB/EA	--	--	.077	.118	.118	.186	.427	.427	.427	.823	--	.823	--	--	--
NONE		S LB/EA	.054	.054	.081	.135	.135	.200	.476	.476	.476	.853	TBD /9/	.853	TBD /9/	TBD /9/	TBD /9/
NONE		E LB/EA	.074	.074	.115	.193	.193	.267	.591	.591	.591	1.000	--	1.000	--	--	--
NONE	FITTING END (45°) /14/ /16/	R LB/EA	--	--	.099	.132	.132	.242	.454	.454	.454	.839	--	.839	--	--	--
NONE		S LB/EA	.066	.066	.110	.154	.154	.275	.535	.535	.535	.944	TBD /9/	.944	TBD /9/	TBD /9/	TBD /9/
NONE		E LB/EA	.088	.088	.143	.209	.209	.385	.690	.690	.690	1.029	--	1.029	--	--	--

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL

AEROSPACE STANDARD

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

AS4625

SHEET 4 OF 6

REV.**A**