

FEDERAL SUPPLY CLASS
4720

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A

AS4570

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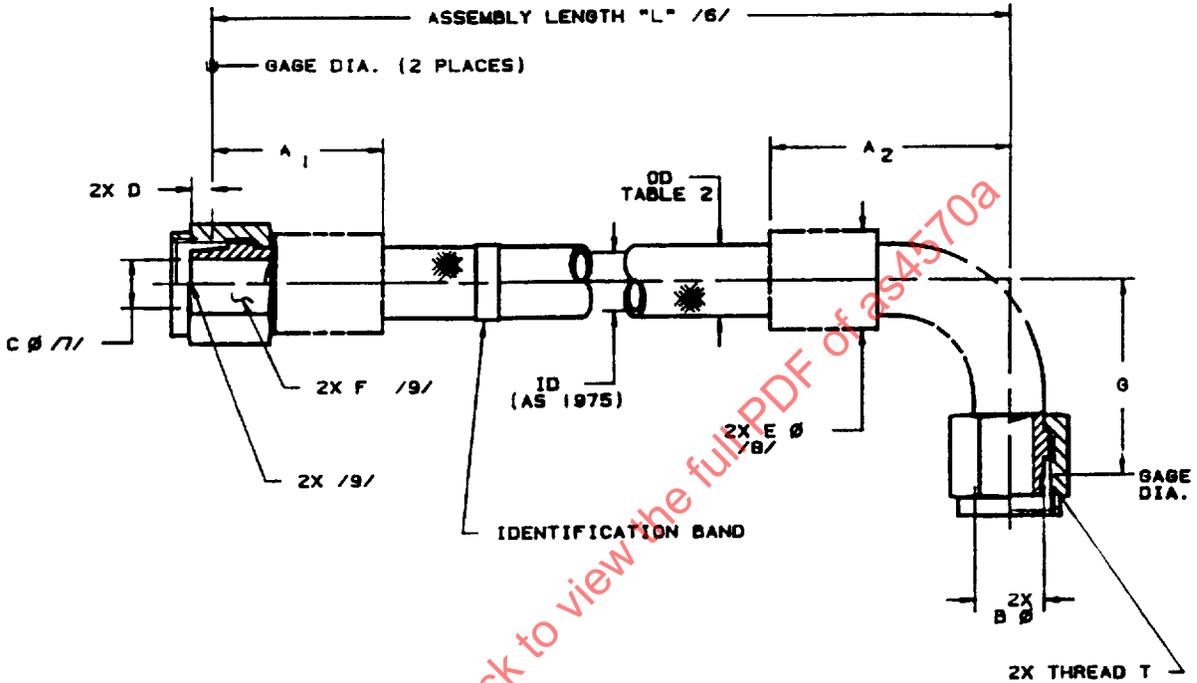


FIGURE 1 - HOSE ASSEMBLY, STRAIGHT TO 90° ELBOW

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CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS1975 /2/

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD
HOSE ASSEMBLY, PTFE, ARAMID REINFORCED,
STANDARD DUTY 4000/3000 psi, 275 °F, TITANIUM
FITTINGS, FLARELESS, STRAIGHT TO 90°

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(R) TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	/15/ FITTING TYPE (REF)	THREAD T PER MIL-S-8879 (REF)	ID MIN (REF)	A ₁ MAX	A ₂ MAX	B GAGE BASIC	C // / MIN STR FTG BORE AFTER ASSEMBLY	D (REF)
								D	
AS4570E	.250	-							
AS4570E	.250	S	.4375-20UNJF-3B	.212	1.630	1.880	.2930	.135	.16
AS4570E	.250	E	.5625-18UNJF-3B	.212	1.695	1.930	.4120	.135	.16
AS4570G	.375	R	.4375-20UNJF-3B	.298	1.725	2.180	.2930	.135	.16
AS4570G	.375	S	.5625-18UNJF-3B	.298	1.835	2.180	.4120	.240	.16
AS4570G	.375	E	.7500-16UNJF-3B	.298	1.915	2.530	.5600	.240	.19
AS4570H	.500	R	.5625-18UNJF-3B	.391	2.145	2.280	.4120	.240	.16
AS4570H	.500	S	.7500-16UNJF-3B	.391	2.165	2.530	.5600	.340	.19
AS4570H	.500	E	.8750-14UNJF-3B	.391	2.675	2.780	.6730	.340	.20
AS4570J	.625	R	.7500-16UNJF-3B	.485	2.860	3.375	.5600	.340	.19
AS4570J	.625	S	.8750-14UNJF-3B	.485	2.905	3.375	.6730	.410	.20
AS4570J	.625	E	1.0625-12UNJ-3B	.485	2.920	3.655	.8100	.410	.23
AS4570K	.750	R	.8750-14UNJF-3B	.602	3.240	3.940	.6730	.410	.20
AS4570K	.750	S	1.0625-12UNJ-3B	.602	3.205	3.940	.8100	.510	.23
AS4570K	.750	E	1.3125-12UNJ-3B	.602	3.320	4.060	1.0620	.510	.30
AS4570M	1.000	R	1.0625-12UNJ-3B	.852	3.690	4.485	.8100	.510	.23
AS4570M	1.000	S	1.3125-12UNJ-3B	.852	3.740	4.485	1.0620	.760	.30
AS4570M	1.000	E	1.5625-12UNJ-3B	.852	3.570	4.680	1.3160	.760	.04
AS4570N	1.250	R	1.3125-12UNJ-3B	1.100	4.600	5.085	1.0620	.760	.30
AS4570N	1.250	S	1.5625-12UNJ-3B	1.100	4.330	5.225	1.3160	.960	.04
AS4570N	1.250	-	TBD	TBD	TBD	TBD	TBD	TBD	TBD
AS4570P	1.500	-							
AS4570P	1.500	S	TBD	TBD	TBD	TBD	TBD	TBD	TBD
AS4570P	1.500	-							

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TABLE 1 (Continued)

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	/15/ FITTING TYPE (REF)	E /8/ DIA MAX WITHOUT SLEEVING	F HEX REF	BALL SIZE MIN			BALL SIZE MIN THRU /7/ IN
					G MIN	G MAX	THRU /7/ MS19059 DASH NO.	
AS4570E	.250	-						
AS4570E	.250	S	.69	.56	.645	.770	4807	.109
AS4570E	.250	E	.69	.69	.715	.840	4807	.109
AS4570G	.375	R	.80	.56	.645	.770	4807	.109
AS4570G	.375	S	.80	.69	.715	.840	4812	.188
AS4570G	.375	E	.80	.88	.845	.970	4812	.188
AS4570H	.500	R	.97	.69	.715	.840	4812	.188
AS4570H	.500	S	.97	.88	.845	.970	4816	.313
AS4570H	.500	E	.97	1.00	1.085	1.210	4816	.313
AS4570J	.625	R	1.15	.88	.845	.970	4816	.313
AS4570J	.625	S	1.15	1.00	1.085	1.210	4818	.375
AS4570J	.625	E	1.15	1.25	1.275	1.400	4818	.375
AS4570K	.750	R	1.38	1.00	1.085	1.210	4818	.375
AS4570K	.750	S	1.38	1.25	1.275	1.400	4821	.469
AS4570K	.750	E	1.38	1.50	1.500	1.625	4821	.469
AS4570M	1.000	R	1.66	1.25	1.275	1.400	4821	.469
AS4570M	1.000	S	1.66	1.50	1.500	1.625	4829	.719
AS4570M	1.000	E	1.66	1.81	1.700	1.825	4829	.719
AS4570N	1.250	R	2.33	1.50	1.500	1.625	4829	.719
AS4570N	1.250	S	2.33	1.81	1.700	1.825	4834	.875
AS4570N	1.250	-	TBD	TBD	TBD	TBD	TBD	TBD
AS4570P	1.500	-						
AS4570P	1.500	S	TBD	TBD	TBD	TBD	TBD	TBD
AS4570P	1.500	-						

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TABLE 2 - HOSE AND SLEEVE OUTSIDE DIAMETER

SLEEVE CODE	SLEEVE MATERIAL	TEMP LIMIT °F	HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/	
			TOLERANCE	.250	.375	.500	.625	.750	1.000	1.250	1.500	
-	BRAIDED HOSE ONLY PER AS1975	275	MAX	.465	.555	.715	.920	1.075	1.365	1.660	TBD	TBD
			MIN	.405	.495	.655	.850	.995	1.285	1.580	TBD	TBD
A	FIRESLEEVE (AS1072 SIL FG) (5 min) /11/ /12/	275	MAX	.640	.970	1.150	1.380	1.590	1.750	1.950	TBD	TBD
			MIN	.658	.788	.968	1.198	1.318	1.568	1.768	TBD	TBD
B	FIRESLEEVE INTEGRAL SILICONE (5 min) /13/	275	MAX	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			MIN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1079, CODE B) /21/	275	MAX	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			MIN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

(R) TABLE 3 - ASSEMBLY LENGTH TOLERANCE

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%



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(R) TABLE 4 - MAXIMUM HOSE AND FITTING WEIGHTS

HOSE OR SLEEVE CODE	HOSE OR SLEEVE OR PART UNITS	HOSE SIZE		HOSE SIZE		HOSE SIZE		HOSE SIZE		HOSE SIZE	
		.250	.375	.500	.625	.750	1.000	1.250	1.500		
-	BRAIDED HOSE ONLY PER AS1975	LB/IN	.006	.008	.012	.020	.025	.040	.050	TBD	TBD
A	FIRESLEEVE AS1072 (5 min PER AS1055) /16/	LB/IN									
B	FIRESLEEVE INTEGRAL WITH HOSE (5 min PER AS1055) /16/	LB/IN									
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073, CODE B) /21/	LB/IN									
NONE	FIRESLEEVE CLAMP	LB/EA	.020	.020	.021	.021	.025	.025	.032	TBD	TBD
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R LB/EA	-	.077	.118	.210	.382	.730	TBD	-	-
		S LB/EA	.048	.081	.135	.248	.431	.760	TBD	TBD /9/	-
		E LB/EA	.068	.115	.193	.296	.546	.890	-	-	-
NONE	FITTING END (90°) TITANIUM /15/ /17/	R LB/EA	-	.110	.143	.275	.460	.810	TBD	-	-
		S LB/EA	.077	.121	.176	.297	.560	.950	TBD	TBD /9/	-
		E LB/EA	.099	.154	.242	.410	.740	1.075	-	-	-

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