

FEDERAL SUPPLY CLASS
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AS4570

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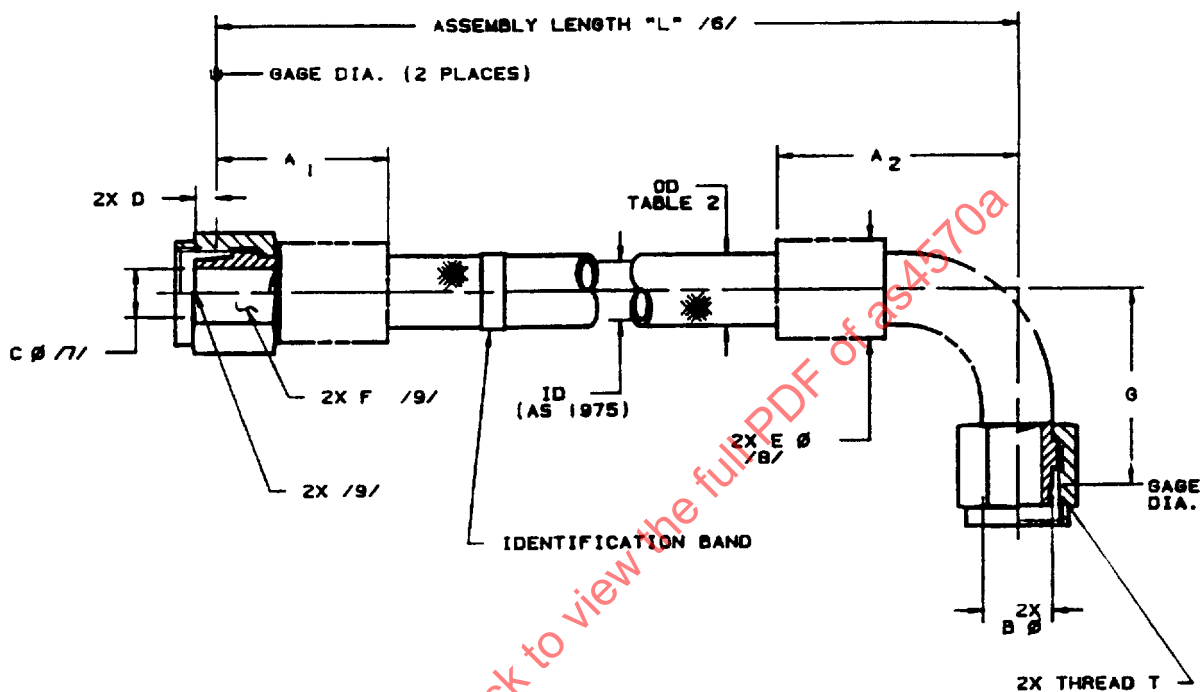


FIGURE 1 - HOSE ASSEMBLY, STRAIGHT TO 90° ELBOW

REVISED 1994-07 (A)

ISSUED 1992-06

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS1975 / 2/

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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 /7/ MIN STR FTG BORE AFTER ASSEMBLY	D (REF)
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	G MIN	G MAX	BALL SIZE MIN THRU /7/ MS19059 DASH NO.	BALL SIZE MIN THRU /7/ IN
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	TOLERANCE		HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/	
			MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
-	BRAIDED HOSE ONLY PER AS1975	275	.465	.405	.555	.495	.715	.655	.920	.850	1.075	.995	1.365	1.660
A	FIRESLLEEVE (AS1072 SIL FG) (5 min) /11/ /12/	275	.640	.658	.970	.788	1.150	.968	1.380	1.198	1.590	1.318	1.750	1.950
B	FIRESLLEEVE INTEGRAL SILICONE (5 min) /13/	275	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073, CODE B) /21/	275	TBD	TBD	TBD	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		
		.250	.375	.500	.625	.750	1.000	1.250	1.500	TBD	.025	.040	.050
-	BRAIDED HOSE ONLY PER AS1975	LB/IN	.006	.008	.012	.020	.025	.040	.050	TBD			
A	FIRE SLEEVE AS1072 (5 min PER AS1055) /16/	LB/IN											
B	FIRE SLEEVE INTEGRAL WITH HOSE (5 min PER AS1055) /16/	LB/IN											
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073, CODE B) /21/												
NONE	FIRE SLEEVE CLAMP	LB/EA	.020	.020	.021	.021	.025	.025	.032	TBD			
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R LB/EA S LB/EA E LB/EA	- .048 .068	.077 .081 .115	.118 .135 .193	.210 .248 .296	.382 .431 .546	.730 .760 .890	TBD TBD -	- TBD /9/ -			
NONE	FITTING END (90°) TITANIUM /15/ /17/	R LB/EA S LB/EA E LB/EA	- .077 .099	.110 .121 .154	.143 .176 .242	.275 .297 .410	.460 .560 .740	.810 .950 1.075	TBD TBD -	- TBD /9/ -			

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