

AS4570

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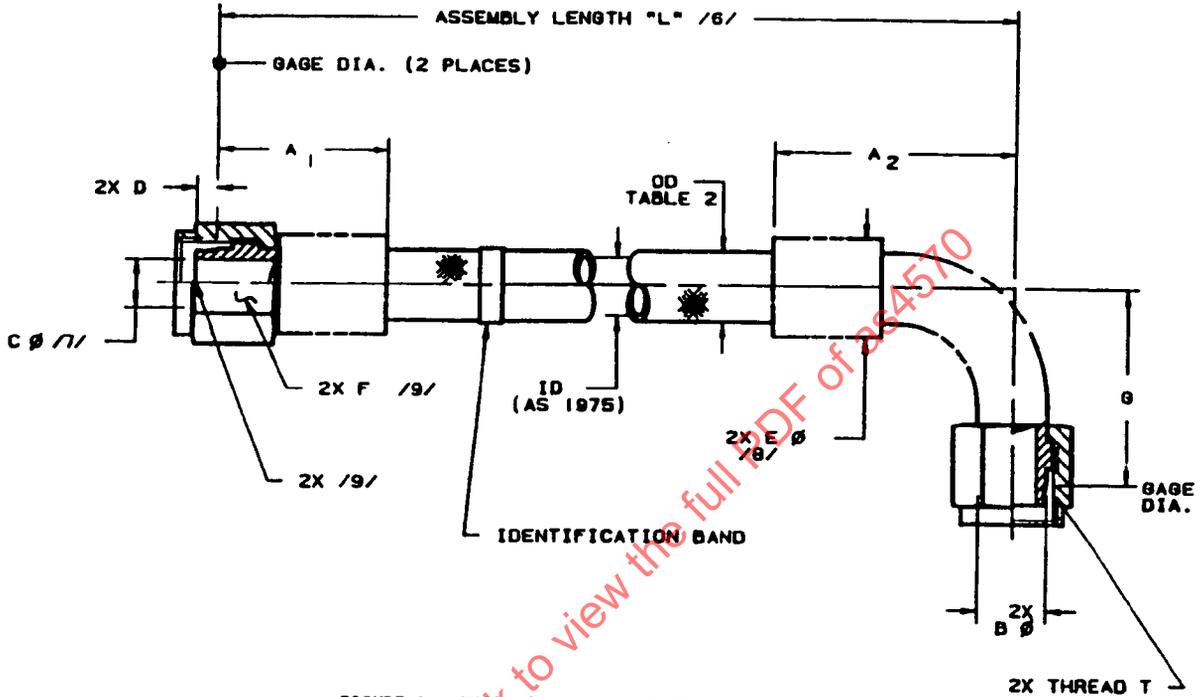


FIGURE 1 - HOSE ASSEMBLY, STRAIGHT TO 90° ELBOW

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CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS1975 /2/

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AEROSPACE STANDARD

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

AS4570

SHEET 1 OF 7

TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	/150/ FITTING TYPE (REF)	THREAD T PER MIL-S-8879 (REF)	ID MIN (REF)	A		B GAGE φ BASIC	C /72/ MIN STR FTG BORE φ AFTER ASSEMBLY		D (REF)
					A ₁ MAX	A ₂ MAX				
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	2.570	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	-								

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 ϕ /7/ MS19059 DASH NO.	BALL SIZE MIN THRU ϕ /7/ ϕ 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	2.275	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	-						

TABLE 2 - HOSE AND SLEEVE OUTSIDE DIAMETER

SLEEVE CODE	SLEEVE MATERIAL	TEMP LIMIT °F	HOSE SIZE /10/		TOLERANCE	HOSE SIZE /10/		HOSE SIZE /10/	HOSE SIZE /10/		HOSE SIZE /10/	
			MAX	MIN		MAX	MIN		MAX	MIN		
-	BRAIDED HOSE ONLY PER AS1975	275	.465	.555	.250	.375	.500	.625	.750	1.000	1.250	1.500
			MAX	.715		1.075	1.365	1.660	TBD			
			MIN	.495		.995	1.285	1.580	TBD			
A	FIRESLLEEVE (AS1072 SIL FG) (5 min) /11/ /12/	275	.840	.970	.250	.375	.500	.625	.750	1.000	1.250	1.500
			MAX	1.150		1.590	1.750	1.950	TBD			
			MIN	.968		1.318	1.568	1.768	TBD			
B	FIRESLLEEVE INTEGRAL SILICONE (5 min) /13/	275	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			MAX	TBD		TBD	TBD	TBD	TBD	TBD	TBD	TBD
			MIN	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
			MAX	TBD		TBD	TBD	TBD	TBD	TBD	TBD	TBD
			MIN	TBD		TBD	TBD	TBD	TBD	TBD	TBD	TBD

TABLE 3 - ASSEMBLY PROCUREMENT LENGTHS

HOSE ASSEMBLY LENGTH	AVAILABLE INCREMENTS	TOLERANCE
UNDER 18 in	(NOT LESS THAN) .125 in	±.125 in
18 THRU 36 in	(NOT LESS THAN) .250 in	±.250 in
OVER 36 THRU 50 in	(NOT LESS THAN) .500 in	±.500 in
OVER 50 in	(NOT LESS THAN) 1.000 in	±1X

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	
			SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE
-	BRAIDED HOSE ONLY PER AS1975	LB/IN	.006	.008	.012	.020	.025	.040	.050	.050	.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/	LB/EA	.020	.020	.021	.021	.025	.025	.032	.032	.032	TBD
NONE	FIRE SLEEVE CLAMP	LB/EA										
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R		.075	.118	.210	.337	.610	.917	.917	.917	-
		S	.041	.079	.135	.248	.386	.580	.978	.978	.978	TBD /9/
		E	.061	.113	.193	.296	.501	.772	.772	-	-	-
NONE	FITTING END (90°) TITANIUM /15/ /17/	R		.110	.143	.275	.460	.650	1.055	1.055	1.055	-
		S	.077	.121	.176	.297	.560	.820	1.260	1.260	1.260	TBD /9/
		E	.099	.154	.242	.410	.740	.945	.945	-	-	-