

REV.
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AS4569

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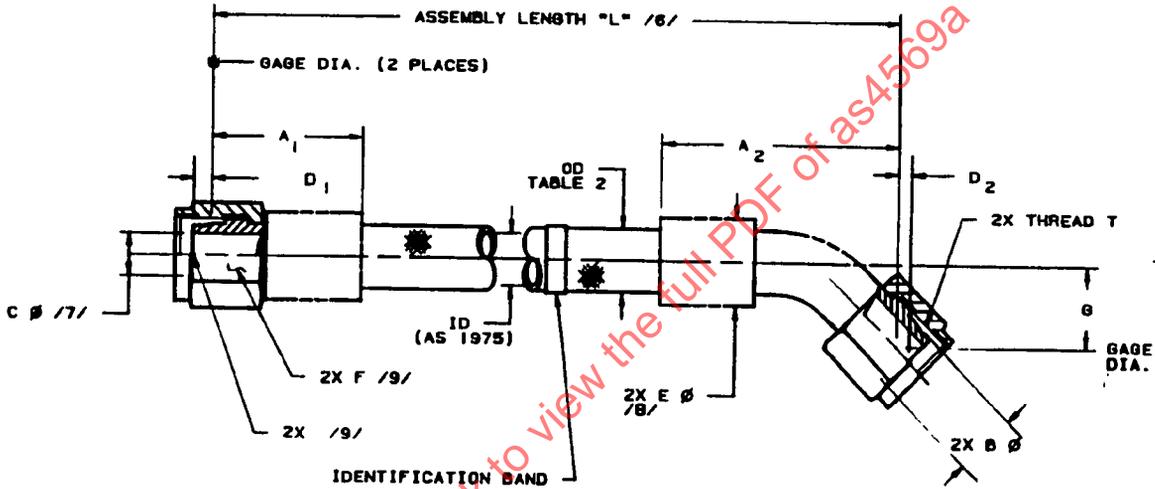


FIGURE 1 HOSE ASSEMBLY, STRAIGHT TO 45° ELBOW

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1993-08-02 (A)

REVISED

ISSUED 1992-06-22

CUSTDIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS1975 /2/

SAE The Engineering Society
For Advancing Mobility
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AEROSPACE STANDARD

HOSE ASSEMBLY, PTFE, ARAMID REINFORCED,
STANDARD DUTY, 4000/3000 psi, 275 °F, TITANIUM
FITTINGS, FLARELESS, STRAIGHT TO 45°

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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		B GAGE φ BASIC	C /1/ MIN STR FTG BORE φ AFTER ASSEMBLY	D ₁ (REF)	D ₂ (REF)
					A ₁ MAX	A ₂ MAX				
AS4569E	.250	-								
AS4569E	.250	S	.4375-20UNJF-3B	.212	1.630	2.160	.2930	.135	.16	.11
AS4569E	.250	E	.5625-18UNJF-3B	.212	1.695	2.200	.4120	.135	.16	.12
AS4569G	.375	R	.4375-20UNJF-3B	.298	1.725	2.620	.2930	.135	.16	.11
AS4569G	.375	S	.5625-18UNJF-3B	.298	1.835	2.460	.4120	.240	.16	.12
AS4569G	.375	E	.7500-16UNJF-3B	.298	1.915	2.770	.5600	.240	.19	.13
AS4569H	.500	R	.5625-18UNJF-3B	.391	2.145	2.695	.4120	.240	.16	.12
AS4569H	.500	S	.7500-16UNJF-3B	.391	2.165	2.740	.5600	.340	.19	.13
AS4569H	.500	E	.8750-14UNJF-3B	.391	2.675	3.050	.6100	.340	.20	.14
AS4569J	.625	R	.7500-16UNJF-3B	.485	2.860	3.665	.6100	.340	.19	.13
AS4569J	.625	S	.8750-14UNJF-3B	.485	2.905	3.785	.6100	.410	.20	.14
AS4569J	.625	E	1.0625-12UNJ-3B	.485	2.920	3.875	.8100	.410	.23	.16
AS4569K	.750	R	.8750-14UNJF-3B	.602	3.240	3.995	.6100	.410	.20	.14
AS4569K	.750	S	1.0625-12UNJ-3B	.602	3.205	4.065	.8100	.510	.23	.16
AS4569K	.750	E	1.3125-12UNJ-3B	.602	3.320	4.095	1.0600	.510	.30	.21
AS4569M	1.000	R	1.0625-12UNJ-3B	.852	3.690	4.645	.8100	.510	.23	.16
AS4569M	1.000	S	1.3125-12UNJ-3B	.852	3.740	4.645	1.0600	.760	.30	.21
AS4569M	1.000	E	1.5625-12UNJ-3B	.852	3.570	5.010	1.3100	.760	.04	.03
AS4569N	1.250	R	1.3125-12UNJ-3B	1.100	4.600	5.650	1.0600	.760	.30	.21
AS4569N	1.250	S	1.5625-12UNJ-3B	1.100	4.330	5.585	1.3100	.960	.04	.03
AS4569N	1.250	-	TBD	TBD	TBD	TBD	TBD	.760	TBD	TBD
AS4569P	1.500	-								
AS4569P	1.500	S	TBD	TBD	TBD	TBD	TBD	.760	TBD	TBD
AS4569P	1.500	-								

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TABLE 1 (Continued)

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	/5/ FITTING TYPE (REF)	E /8/ φ MAX WITHOUT SLEEVING	F HEX REF	G MIN	G MAX	BALL SIZE MIN	BALL SIZE MIN
							φ /7/ MS19059 DASH NO.	φ /7/ φ IN
AS4569E	.250	-						
AS4569E	.250	S	.69	.56	.350	.475	4807	.109
AS4569E	.250	E	.69	.69	.375	.500	4807	.109
AS4569G	.375	R	.80	.56	.350	.475	4807	.109
AS4569G	.375	S	.80	.69	.375	.500	4812	.188
AS4569G	.375	E	.80	.88	.435	.560	4812	.188
AS4569H	.500	R	.97	.69	.375	.500	4812	.188
AS4569H	.500	S	.97	.88	.435	.560	4816	.313
AS4569H	.500	E	.97	1.00	.545	.670	4816	.313
AS4569J	.625	R	1.15	.88	.435	.560	4816	.313
AS4569J	.625	S	1.15	1.00	.545	.670	4818	.375
AS4569J	.625	E	1.15	1.25	.580	.705	4818	.375
AS4569K	.750	R	1.38	1.00	.545	.670	4818	.375
AS4569K	.750	S	1.38	1.25	.580	.705	4821	.469
AS4569K	.750	E	1.38	1.50	.715	.840	4821	.469
AS4569M	1.000	R	1.66	1.25	.580	.705	4821	.469
AS4569M	1.000	S	1.66	1.50	.715	.840	4829	.719
AS4569M	1.000	E	1.66	1.81	.750	.875	4829	.719
AS4569N	1.250	R	2.33	1.50	.715	.840	4829	.719
AS4569N	1.250	S	2.33	1.81	.750	.875	4835	.875
AS4569N	1.250	-	TBD	TBD	TBD	TBD	TBD	TBD
AS4569P	1.500	-						
AS4569P	1.500	S	TBD	TBD	TBD	TBD	TBD	TBD
AS4569P	1.500	-						

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TABLE 2 - HOSE AND SLEEVE OUTSIDE DIAMETER

SLEEVE CODE	SLEEVE MATERIAL	TEMP LIMIT °F	TOLERANCE	HOSE SIZE		HOSE SIZE		HOSE SIZE		HOSE SIZE		HOSE SIZE	
				/10/	/10/	/10/	/10/	/10/	/10/	/10/	/10/	/10/	/10/
-	BRAIDED HOSE ONLY PER AS1975	275	MAX	.465	.555	.715	.920	1.075	1.365	1.660	TBD	TBD	TBD
			MIN	.405	.495	.655	.850	.995	1.285	1.580	TBD	TBD	TBD
A	FIRESLEEVE (AS1072 SIL FG) (5 min) /6/ /7/	275	MAX	.840	.970	1.150	1.380	1.590	1.750	1.950	TBD	TBD	TBD
			MIN	.658	.788	.968	1.198	1.318	1.568	1.768	TBD	TBD	TBD
B	FIRESLEEVE INTEGRAL SILICONE (5 min) /11/ /12/	275	MAX	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
C	PROTECTIVE SLEEVE SHRINK-DN (POLYOLEFIN AS1073, CODE B) /21/	275	MAX	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			MIN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

TABLE 3 - ASSEMBLY PROCUREMENT LENGTHS

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%

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											
-	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/	LB/IN											
NONE	FIRE SLEEVE CLAMP	LB/EA	.020	.020	.021	.025	.025	.025	.032	TBD			
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R	LB/EA	.075	.118	.210	.337	.610	.917	-			
		S	LB/EA	.041	.079	.135	.248	.580	.978	TBD /9/			
		E	LB/EA	.061	.113	.193	.296	.727	-	-			
NONE	FITTING END (45°) TITANIUM /15/ /17/	R	LB/EA	.099	.132	.242	.419	.625	.990	-			
		S	LB/EA	.066	.110	.154	.275	.730	1.125	TBD /9/			
		E	LB/EA	.088	.143	.209	.385	.815	-	-			