

FEDERAL SUPPLY CLASS
4720REV.
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AS4569

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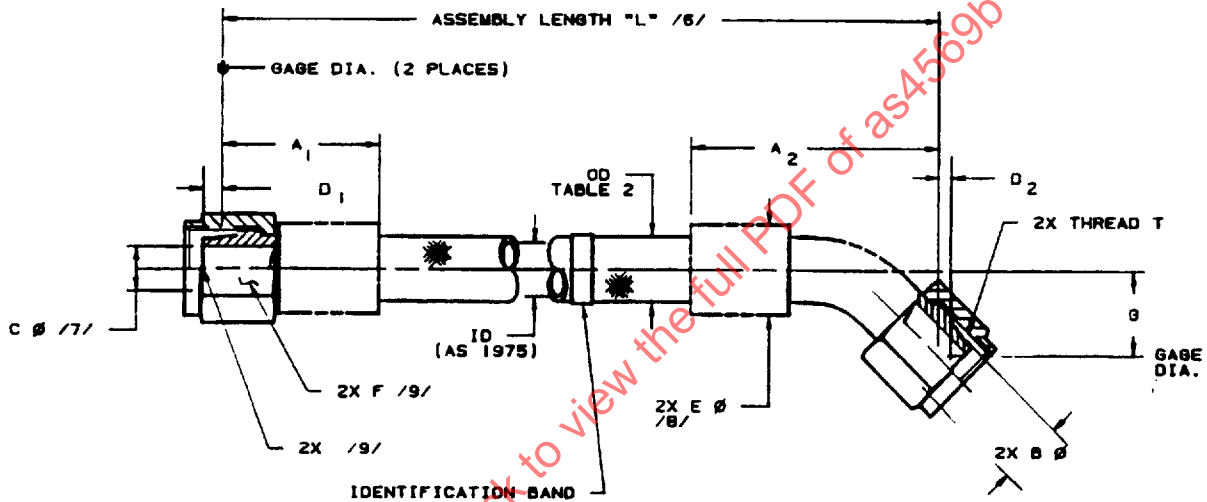


FIGURE 1 - HOSE ASSEMBLY, STRAIGHT TO 45° ELBOW

ISSUED 1992-06 REVISED 1994-07 (B)

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 45°

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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 ₁ (REF)	D ₂ (REF)
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	.6730	.340	.20	.14
AS4569J	.625	R	.7500-16UNJF-3B	.485	2.860	3.665	.5600	.340	.19	.13
AS4569J	.625	S	.8750-14UNJF-3B	.485	2.905	3.785	.6730	.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	4.065	.6730	.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	4.295	1.0620	.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	1.0620	.760	.30	.21
AS4569M	1.000	E	1.5625-12UNJ-3B	.852	3.570	5.010	1.3160	.760	.04	.03
AS4569N	1.250	R	1.3125-12UNJ-3B	1.100	4.600	5.650	1.0620	.760	.30	.21
AS4569N	1.250	S	1.5625-12UNJ-3B	1.100	4.330	5.585	1.3160	.960	.04	.03
AS4569N	1.250	-	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
AS4569P	1.500	-								
AS4569P	1.500	S	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
AS4569P	1.500	-								

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TABLE 1 (Continued)

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	/15/ FITTING TYPE (REF)	E /8/ MAX WITHOUT SLEEVING	F HEX REF	G MIN	G MAX	BALL SIZE MIN /7/ MS19059 DASH NO.	BALL SIZE MIN /7/ 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 /10/		HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/		HOSE SIZE /10/	
-	BRAIDED HOSE ONLY PER AS1975	275	MAX	.465	.555	.715	.920	1.075	1.365	1.660	TBD			
			MIN	.405	.495	.655	.850	.995	1.285	1.580	TBD			
A	FIRESLLEEVE (AS1072 SIL FG) (5 min) /6/ /7/	275	MAX	.840	.970	1.150	1.380	1.590	1.750	1.950	TBD			
			MIN	.658	.788	.968	1.198	1.318	1.568	1.768	TBD			
B	FIRESLLEEVE INTEGRAL SILICONE (5 min) /11/ /12/	275	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	MAX	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	
-	BRAIDED HOSE ONLY PER AS1975	LB/IN	.006	.008	.012	.020	.025	.040	.050	TBD		
A	FIRESLLEEVE AS1072 (5 min PER AS1055) /16/	LB/IN										
B	FIRESLLEEVE INTEGRAL WITH HOSE (5 min PER AS1055) /16/	LB/IN										
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073, CODE B) /21/	LB/IN										
NONE	FIRESLLEEVE 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 (45°) TITANIUM /15/ /17/	R LB/EA S LB/EA E LB/EA	- .066 .088	.099 .110 .143	.132 .154 .209	.242 .285 .365	.419 .500 .655	.785 .890 .975	TBD TBD -	- TBD /9/ -		

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