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AS4569

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FEDERAL SUPPLY CLASS

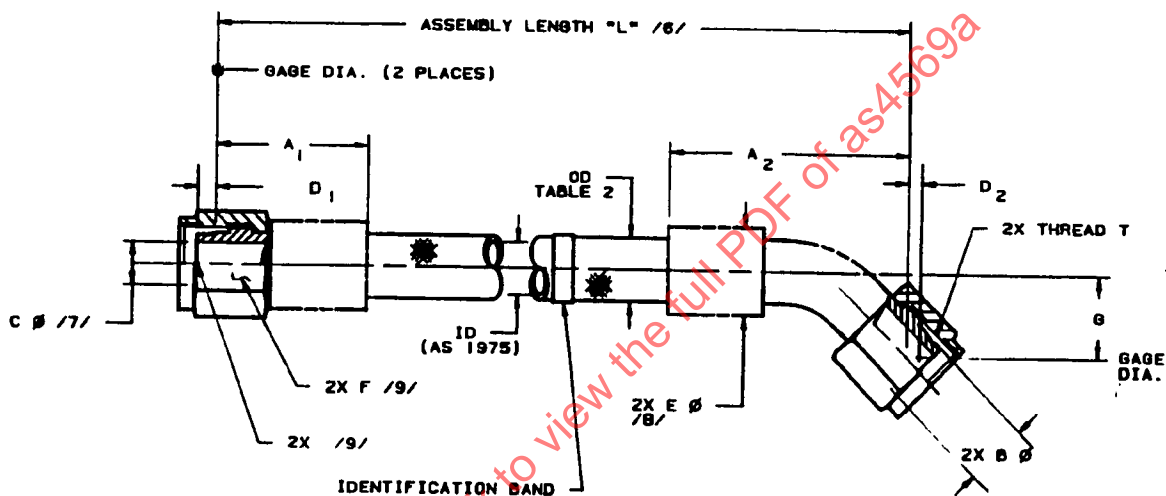


FIGURE 1 HOSE ASSEMBLY, STRAIGHT TO 45° ELBOW

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS1975 /2/

SAE
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For Advancing Mobility
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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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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)			B GAGE Ø BASIC	C /7/ MIN STR FTG BORE Ø 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	.6130	.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	.6130	.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	.6130	.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 φ /7/ MS19059 DASH NO.	BALL SIZE MIN 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	-						

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	.250	.375	.500	.625	.750	1.000	1.250	1.500	TBD	TBD
-	BRAIDED HOSE ONLY PER AS1975	275			.465	.555	.715	.920	1.075	1.365	1.660	TBD	TBD	TBD
					.405	.495	.655	.850	.995	1.285	1.580	TBD	TBD	TBD
A	FIRESLEEVE (AS1072 SIL FG) (5 min) /6/ /7/	275	MAX	MIN	.840	.970	1.150	1.380	1.590	1.750	1.950	TBD	TBD	TBD
					.658	.788	.968	1.198	1.318	1.568	1.768	TBD	TBD	TBD
B	FIRESLEEVE INTEGRAL SILICONE (5 min) /11/ /12/	275	MAX	MIN	TBD	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

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 HDSE AND FITTING WEIGHTS

HDSE OR SLEEVE CODE	HOSE OR SLEEVE OR PART	UNITS	HOSE		HOSE		HOSE		HOSE		HOSE		HOSE	
			SIZE	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	.050	.050	TBD
A	FIRE SLEEVE AS1072 (5 min PER AS1055) /16/	LB/IN												
B	FIRE SLEEVE INTEGRAL WITH HDSE (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	.021	.025	.025	.032	.032	.032	.032	.032	TBD
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R		.075	.118	.210	.337	.610	.917	.917	.917	.917	.917	-
		S	.041	.079	.135	.248	.386	.580	.978	.978	.978	.978	.978	TBD /9/
		E	.061	.113	.193	.296	.501	.727	-	-	-	-	-	-
NONE	FITTING END (45°) TITANIUM /15/ /17/	R	-	.099	.132	.242	.419	.625	.990	.990	.990	.990	.990	-
		S	.066	.110	.154	.275	.500	.730	1.125	1.125	1.125	1.125	1.125	TBD /9/
		E	.088	.143	.209	.385	.655	.815	-	-	-	-	-	-