

RATIONALE

AS4569C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

REV.
C

AS4569

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

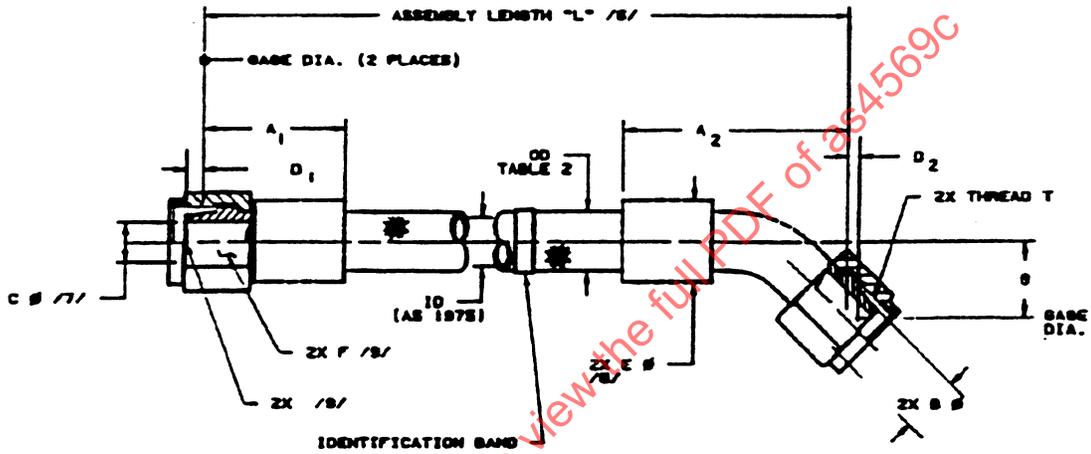
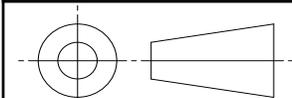


FIGURE 1 - HOSE ASSEMBLY, STRAIGHT TO 45° ELBOW

SAENORM.COM : Click to view the full PDF of AS4569C

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4569C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS1975 /2/



AEROSPACE STANDARD

(R) HOSE ASSEMBLY, PTFE, PARA-ARAMID REINFORCED, STANDARD DUTY, 3000 PSI, 275 °F, TITANIUM FITTINGS, FLARELESS, STRAIGHT TO 45°

AS4569
SHEET 1 OF 6

REV. C

TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	/15/ FITTING TYPE (REF)	THREAD T PER AS8879 (REF)	HOSE ID MIN	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	1.820	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	-								

SAENORM.COM : Click to view the full PDF of as4569C

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	SPHERICAL BALL SIZE FOR DETERMINING MINIMUM HOSE	SPHERICAL BALL SIZE FOR DETERMINING MINIMUM HOSE
							ASSEMBLY ID /7/ IN STRAIGHT FITTING	ASSEMBLY ID /7/ IN ELBOW FITTING
AS4569E	.250	-						
AS4569E	.250	S	.69	.56	.350	.475	.122	.115
AS4569E	.250	E	.69	.69	.375	.500	.122	.115
AS4569G	.375	R	.80	.56	.350	.475	.122	.115
AS4569G	.375	S	.80	.69	.375	.500	.216	.204
AS4569G	.375	E	.80	.88	.435	.560	.216	.204
AS4569H	.500	R	.97	.69	.375	.500	.216	.204
AS4569H	.500	S	.97	.88	.435	.560	.306	.289
AS4569H	.500	E	.97	1.00	.545	.670	.306	.289
AS4569J	.625	R	1.15	.88	.435	.560	.306	.289
AS4569J	.625	S	1.15	1.00	.545	.670	.369	.349
AS4569J	.625	E	1.15	1.25	.580	.705	.369	.349
AS4569K	.750	R	1.38	1.00	.545	.670	.369	.349
AS4569K	.750	S	1.38	1.25	.580	.705	.459	.434
AS4569K	.750	E	1.38	1.50	.715	.840	.459	.434
AS4569M	1.000	R	1.66	1.25	.580	.705	.459	.434
AS4569M	1.000	S	1.66	1.50	.715	.840	.684	.646
AS4569M	1.000	E	1.66	1.81	.750	.875	.684	.646
AS4569N	1.250	R	2.33	1.50	.715	.840	.684	.646
AS4569N	1.250	S	2.33	1.81	.750	.875	.864	.816
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	-						


AEROSPACE STANDARD

 (R) HOSE ASSEMBLY, PTFE, PARA-ARAMID REINFORCED,
 STANDARD DUTY, 3000 PSI, 275 °F, TITANIUM
 FITTINGS, FLARELESS, STRAIGHT TO 45°

AS4569
 SHEET 3 OF 6

REV.
C

TABLE 2 - HOSE AND SLEEVE OUTSIDE DIAMETER

SLEEVE CODE	SLEEVE MATERIAL	TEMP LIMIT °F	TOLERANCE	HOSE SIZE	HOSE SIZE	HOSE SIZE					
				/10/ .250	/10/ .375	/10/ .500	/10/ .625	/10/ .750	/10/ 1.000	/10/ 1.250	/10/ 1.500
-	BRAIDED HOSE ONLY PER AS1975	275	MAX	.465	.555	.710	.920	1.075	1.365	1.660	TBD
			MIN	.405	.495	.650	.850	.995	1.285	1.580	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
			MIN	.658	.788	.968	1.198	1.318	1.568	1.768	TBD
B	FIRESLEEVE INTEGRAL SILICONE (5 min) /11/ /12/	275	MAX MIN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073 CODE B) /21/	275	MAX	.520	.620	.795	1.000	1.170	1.460	TBD	TBD
			MIN	.450	.550	.725	.920	1.060	1.350		

TABLE 3 - ASSEMBLY LENGTH TOLERANCE

HOSE ASSEMBLY LENGTH	TOLERANCE
UNDER 18 in	±.125 in
18 THRU 36 in EXCLUSIVE	±.250 in
36 THRU 50 in EXCLUSIVE	±.500 in
50 in AND OVER	±1%

TABLE 4 - HOSE AND FITTING WEIGHTS

HOSE OR SLEEVE CODE	HOSE OR SLEEVE OR PART	UNITS	HOSE SIZE							
			.250	.375	.500	.625	.750	1.000	1.250	1.500
-	BRAIDED HOSE ONLY PER AS1975	LB/IN (MAX)	.006	.008	.012	.020	.025	.040	.050	TBD
A	FIRESLEEVE AS1072 (5 min PER AS1055) /16/	LB/IN								
B	FIRESLEEVE INTEGRAL WITH HOSE (5 min PER AS1055) /16/	LB/IN								
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073, CODE B) /21/	LB/IN	.001	.001	.001	.002	.002	.003	TBD	TBD
NONE	FIRESLEEVE CLAMP	LB/EA (REF)	.020	.020	.021	.021	.025	.025	.032	TBD
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R LB/EA (REF)	-	.077	.118	.210	.382	.730	TBD	-
		S LB/EA (REF)	.048	.081	.135	.248	.431	.760	TBD	TBD /9/
		E LB/EA (REF)	.068	.115	.193	.296	.546	.890	-	-
NONE	FITTING END (45°) TITANIUM /15/ /17/	R LB/EA (REF)	-	.099	.132	.242	.419	.785	TBD	-
		S LB/EA (REF)	.066	.110	.154	.285	.500	.890	TBD	TBD /9/
		E LB/EA (REF)	.088	.143	.209	.385	.655	.975	-	-