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REV.
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AS4570

FEDERAL SUPPLY CLASS
4720

RATIONALE

AS4570B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

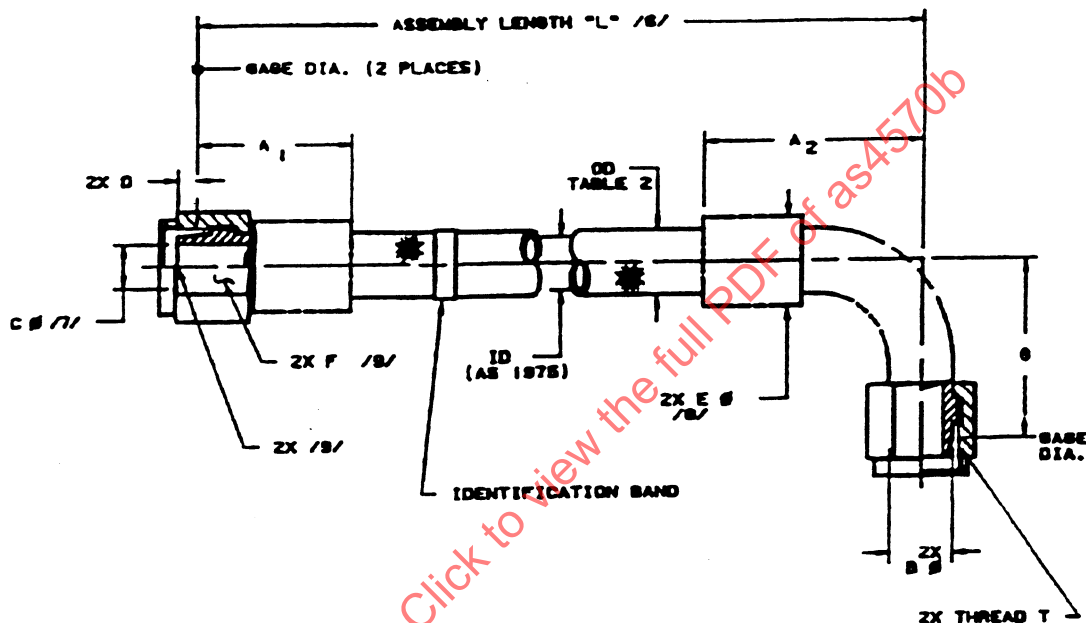
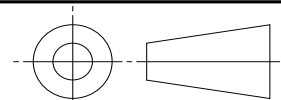


FIGURE 1 HOSE ASSEMBLY, STRAIGHT TO 90° ELBOW

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on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS4570B>

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 90°

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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 (REF)
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	1.820	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	2.530	.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	3.570	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	-							

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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	SPHERICAL BALL SIZE FOR DETERMINING MINIMUM HOSE ASSEMBLY ID /7/ IN STRAIGHT FITTING	SPHERICAL BALL SIZE FOR DETERMINING MINIMUM HOSE ASSEMBLY ID /7/ IN ELBOW FITTING
AS4570E	.250	-						
AS4570E	.250	S	.69	.56	.645	.770	.122	.115
AS4570E	.250	E	.69	.69	.715	.840	.122	.115
AS4570G	.375	R	.80	.56	.645	.770	.122	.115
AS4570G	.375	S	.80	.69	.715	.840	.216	.204
AS4570G	.375	E	.80	.88	.845	.970	.216	.204
AS4570H	.500	R	.97	.69	.715	.840	.216	.204
AS4570H	.500	S	.97	.88	.845	.970	.306	.289
AS4570H	.500	E	.97	1.00	1.085	1.210	.306	.289
AS4570J	.625	R	1.15	.88	.845	.970	.306	.289
AS4570J	.625	S	1.15	1.00	1.085	1.210	.369	.349
AS4570J	.625	E	1.15	1.25	1.275	1.400	.369	.349
AS4570K	.750	R	1.38	1.00	1.085	1.210	.369	.349
AS4570K	.750	S	1.38	1.25	1.275	1.400	.459	.434
AS4570K	.750	E	1.38	1.50	1.500	1.625	.459	.434
AS4570M	1.000	R	1.66	1.25	1.275	1.400	.459	.434
AS4570M	1.000	S	1.66	1.50	1.500	1.625	.684	.646
AS4570M	1.000	E	1.66	1.81	1.700	1.825	.684	.646
AS4570N	1.250	R	2.33	1.50	1.500	1.625	.684	.646
AS4570N	1.250	S	2.33	1.81	1.700	1.825	.864	.816
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	-						



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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	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 MIN	.465 .405	.555 .495	.710 .650	.920 .850	1.075 .995	1.365 1.285	1.660 1.580	TBD TBD
A	FIRE SLEEVE (AS1072 SIL FG) (5 min) /11/ /12/	275	MAX MIN	.840 .658	.970 .788	1.150 .968	1.380 1.198	1.590 1.318	1.750 1.568	1.950 1.768	TBD TBD
B	FIRE SLEEVE INTEGRAL SILICONE (5 min) /13/	275	MAX MIN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073 CODE B) /21/	275	MAX MIN	.520 .450	.620 .550	.795 .725	1.000 .920	1.170 1.060	1.460 1.350	TBD	TBD

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	HOSE SIZE .375	HOSE SIZE .500	HOSE SIZE .625	HOSE SIZE .750	HOSE SIZE 1.000	HOSE SIZE 1.250	HOSE SIZE 1.500
-	BRAIDED HOSE ONLY PER AS1975	LB/IN (MAX)	.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	.001	.001	.001	.002	.002	.003	TBD	TBD
NONE	FIRE SLEEVE CLAMP	LB/EA (REF)	.020	.020	.021	.021	.025	.025	.032	TBD
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R LB/EA (REF) S LB/EA (REF) E LB/EA (REF)	- .048 .068	.077 .081 .115	.118 .135 .193	.210 .248 .296	.382 .431 .546	.730 .760 .890	TBD TBD -	- TBD /9/ -
NONE	FITTING END (90°) TITANIUM /15/ /17/	R LB/EA (REF) S LB/EA (REF) E LB/EA (REF)	- .077 .099	.110 .121 .154	.143 .176 .242	.275 .297 .410	.460 .560 .740	.810 .950 1.075	TBD TBD -	- TBD /9/ -



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