

AS4570

FEDERAL SUPPLY CLASS

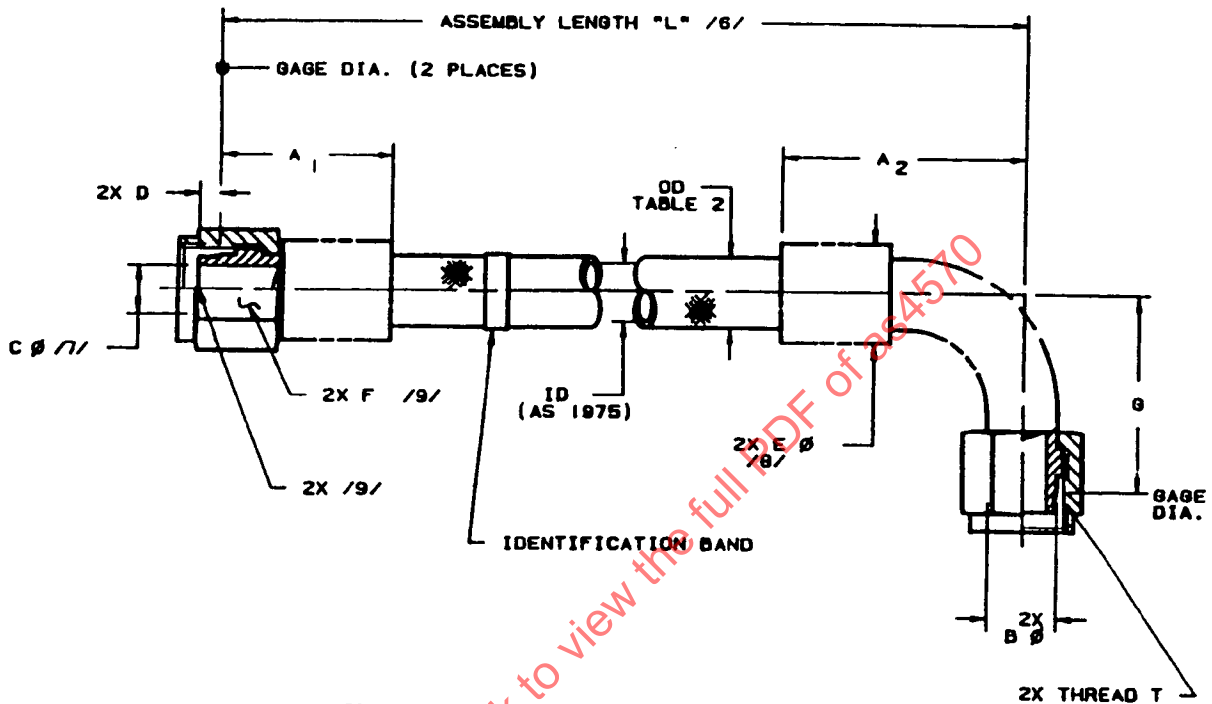


FIGURE 1 - HOSE ASSEMBLY, STRAIGHT TO 90° ELBOW

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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 ps1, 275 °F, TITANIUM
FITTINGS, FLARELESS, STRAIGHT TO 90°

AS4570

SHEET 1 OF 7

TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	/150/ FITTING TYPE (REF)	THREAD T PER MIL-S-8879 (REF)	ID MIN (REF)	A ₁ MAX	A ₂ MAX	B GAGE φ BASIC	C /72/ MIN STR FTG BORE φ 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	1.725	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	2.280	.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	2.570	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	-							

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	BALL SIZE MIN THRU ϕ /7/ MS19059 DASH NO.	BALL SIZE MIN THRU ϕ /7/ ϕ IN
AS4570E	.250	-						
AS4570E	.250	S	.69	.56	.645	.770	4807	.109
AS4570E	.250	E	.69	.69	.715	.840	4807	.109
AS4570G	.375	R	.80	.56	.645	.770	4807	.109
AS4570G	.375	S	.80	.69	.715	.840	4812	.188
AS4570G	.375	E	.80	.88	.845	.970	4812	.188
AS4570H	.500	R	.97	.69	.715	.840	4812	.188
AS4570H	.500	S	.97	.88	.845	.970	4816	.313
AS4570H	.500	E	.97	1.00	1.085	1.210	4816	.313
AS4570J	.625	R	1.15	.88	.845	.970	4816	.313
AS4570J	.625	S	1.15	1.00	1.085	1.210	4818	.375
AS4570J	.625	E	1.15	1.25	2.275	1.400	4818	.375
AS4570K	.750	R	1.38	1.00	1.085	1.210	4818	.375
AS4570K	.750	S	1.38	1.25	1.275	1.400	4821	.469
AS4570K	.750	E	1.38	1.50	1.500	1.625	4821	.469
AS4570M	1.000	R	1.66	1.25	1.275	1.400	4821	.469
AS4570M	1.000	S	1.66	1.50	1.500	1.625	4829	.719
AS4570M	1.000	E	1.66	1.81	1.700	1.825	4829	.719
AS4570N	1.250	R	2.33	1.50	1.500	1.625	4829	.719
AS4570N	1.250	S	2.33	1.81	1.700	1.825	4834	.875
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	-						

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/		HOSE SIZE /10/	
			MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
-	BRAIDED HOSE ONLY PER AS1975	275	.465	.555	.715	.920	1.075	1.365	1.660	TBD						
A	FIRESLLEEVE (AS1072 SIL FG) (5 min) /11/ /12/	275	.840	.970	1.150	1.380	1.590	1.750	1.950	TBD						
B	FIRESLLEEVE INTEGRAL SILICONE (5 min) /13/	275	.658	.788	.968	1.198	1.318	1.568	1.768	TBD						
C	PROTECTIVE SLEEVE SHRINK-ON (POLYOLEFIN AS1073, CODE B) /21/	275	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD						

TABLE 3 - ASSEMBLY PROCUREMENT LENGTHS

HOSE ASSEMBLY LENGTH	AVAILABLE INCREMENTS	TOLERANCE
UNDER 18 in	(NOT LESS THAN) .125 in	$\pm .125$ in
18 THRU 36 in	(NOT LESS THAN) .250 in	$\pm .250$ in
OVER 36 THRU 50 in	(NOT LESS THAN) .500 in	$\pm .500$ in
OVER 50 in	(NOT LESS THAN) 1.000 in	$\pm 1\%$

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	
			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	TBD	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/											
NONE	FIRE SLEEVE CLAMP	LB/EA	.020	.020	.021	.021	.025	.025	.032	.032	TBD	TBD
NONE	FITTING END (STRAIGHT) TITANIUM /15/ /17/	R LB/EA	-	.075	.118	.210	.337	.610	.917	.917	-	-
		S LB/EA	.041	.079	.135	.248	.386	.580	.978	.978	TBD /9/	TBD /9/
		E LB/EA	.061	.113	.193	.296	.501	.772	-	-	-	-
NONE	FITTING END (90°) TITANIUM /15/ /17/	R LB/EA	-	.110	.143	.275	.460	.650	1.055	1.055	-	-
		S LB/EA	.077	.121	.176	.297	.560	.820	1.260	1.260	TBD /9/	TBD /9/
		E LB/EA	.099	.154	.242	.410	.740	.945	-	-	-	-