

RATIONALE

AS4585 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

AS4585

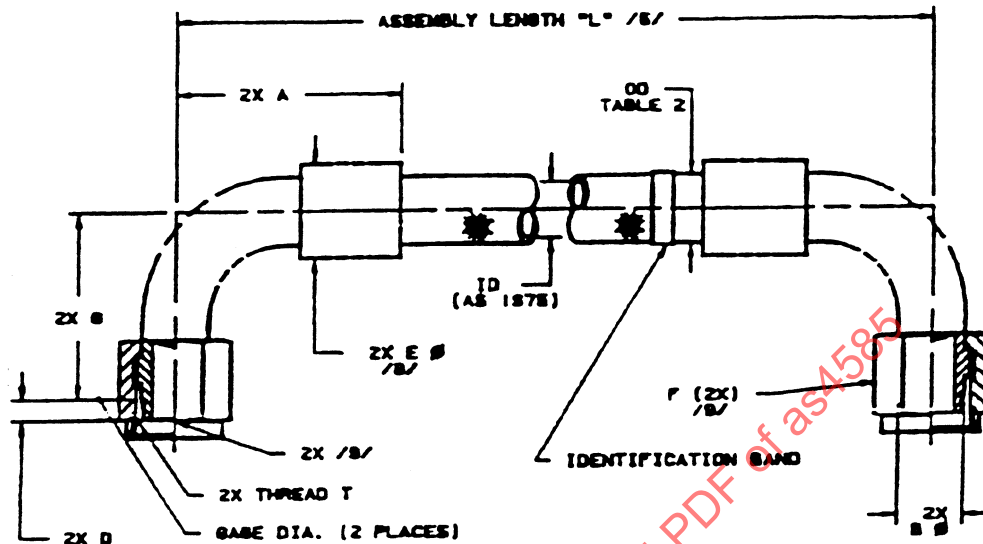


FIGURE 1 - HOSE ASSEMBLY, 90° ELBOW TO 90° ELBOW

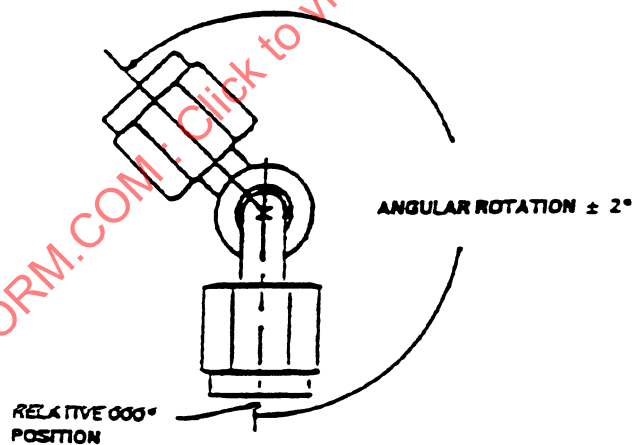
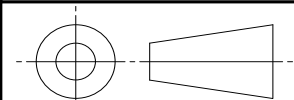


FIGURE 2 - ELBOWS ORIENTATION

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS1975 /2/



AEROSPACE STANDARD

HOSE ASSEMBLY, PTFE, PARA-ARAMID REINFORCED,
STANDARD DUTY, 4000 PSI, 275 °F, TITANIUM
FITTINGS, FLARELESS, 90° TO 90°

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TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY NO. & SIZE CODE	HOSE SIZE (REF)	THREAD T PER AS8879 (REF)	HOSE ID MIN	A MAX	B GAGE BASIC	D (REF)	E /8/ MAX WITHOUT SLEEVING	F HEX (REF)	G MIN	G MAX	SPHERICAL BALL SIZE FOR DETERMINING MINIMUM HOSE ASSEMBLY ID /7/ IN
AS4585E	.250	.4375-20UNJF-3B	.212	1.880	.2930	.16	.69	.56	.645	.790	.115
AS4585G	.375	.5625-18UNJF-3B	.298	2.180	.4120	.16	.80	.69	.715	.840	.204
AS4585H	.500	.7500-16UNJF-3B	.391	2.530	.5600	.19	.97	.88	.845	.970	.289
AS4585J	.625	.8750-14UNJF-3B	.485	3.375	.6730	.20	1.15	1.00	1.065	1.210	.349
AS4585K	.750	1.0625-12UNJ-3B	.602	3.940	.8100	.23	1.38	1.25	1.275	1.400	.434
AS4585M	1.000	1.3125-12UNJ-3B	.852	4.485	1.0620	.30	1.66	1.50	1.500	1.625	.646
AS4585N	1.250	1.5625-12UNJ-3B	1.100	5.225	1.3160	.04	2.33	1.81	1.700	1.825	.816
AS4585P	1.500	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

TABLE 2 - HOSE OR SLEEVE OUTSIDE DIAMETER

SLEEVE CODE	SLEEVE MATERIAL	TEMP LIMIT °F	TOLERANCE	HOSE SIZE /10/ .250	HOSE SIZE /10/ .375	HOSE SIZE /10/ .500	HOSE SIZE /10/ .625	HOSE SIZE /10/ .750	HOSE SIZE /10/ 1.000	HOSE SIZE /10/ 1.250	HOSE SIZE /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	FIRESLEEVE (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	FIRESLEEVE INTEGRAL SILICONE (5 min) /8/	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%

**AEROSPACE STANDARD**

HOSE ASSEMBLY, PTFE, PARA-ARAMID REINFORCED,
STANDARD DUTY, 4000 PSI, 275 °F, TITANIUM
FITTINGS, FLARELESS, 90° TO 90°

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TABLE 4 - HOSE AND FITTING WEIGHTS

HOSE OR SLEEVE CODE	HOSE OR TYPE 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	FIRESLEEVE AS1072 (5 min PER AS1055) /15/	LB/IN								
B	FIRESLEEVE INTEGRAL WITH HOSE (5 min PER AS1055) /15/	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 (90°) TITANIUM /16/	LB/EA (REF)	.077	.121	.176	.310	.560	.950	TBD	TBD /9/

NOTES:

1. MATERIALS:
 - a. HOSE AND FITTINGS - PER AS1975
 - b. SLEEVES - SEE APPLICABLE STANDARDS, TABLE 2
- /2/ THIS PRODUCT SHALL BE QUALIFIED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS1975 CLASS 4000. USERS OF THIS STANDARD SHALL PROCURE THIS PRODUCT FROM ACCREDITED MANUFACTURER(S), OR THEIR ACCREDITED DISTRIBUTOR(S), AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST PRI-QPL-AS1975 CLASS 4000 FOR THIS STANDARD. CHANGE-OVER FROM USER-QPL TO PRI-QPL SHALL BE IN ACCORDANCE WITH AS1975 REVISION C OR HIGHER AND BE COMPLETED WITHIN SIX MONTHS FROM THE DATE OF ISSUE OF THIS STANDARD.
3. CONSTRUCTION AND PERFORMANCE PER AS1975 CLASS 4000. FITTINGS SHALL BE PERMANENTLY ATTACHED TO THE HOSE.
4. OPERATING CHARACTERISTICS PER AS1975.
5. MARKING: MARKING SHALL BE PER AS1975 ON A STAINLESS STEEL BAND NOT OVER 1.0 in WIDE OR ON THE COLLAR. THE CHARACTERS SHALL BE A MINIMUM OF .06 in HIGH. THE BAND SHALL BE SO DESIGNED AS TO REMAIN TIGHT ON THE HOSE TO PREVENT RELATIVE MOVEMENT AND RESULTANT CHAFING. IT SHALL BE OF SUFFICIENT STRENGTH TO PREVENT REMOVAL BY HAND. HOSE ASSEMBLY DATE AND "PT" SYMBOL SHALL BE PERMANENTLY MARKED ON THE BAND OR ON AN END FITTING OR A FIRESLEEVE CLAMP. MARKING BAND SHALL BE COVERED WITH TRANSPARENT POLYOLEFIN SHRINK SLEEVE PER AS1073 CODE A.
- /6/ LENGTH "L" IS A THREE-DIGIT NUMBER OF WHICH THE FIRST TWO DIGITS DESCRIBE THE HOSE ASSEMBLY LENGTH IN WHOLE INCHES, AND THE FOURTH DIGIT, THE FRACTION OF AN INCH IN EIGHTHS. LENGTH "L" IS MEASURED FROM "GAGE DIAMETER" TO "GAGE DIAMETER". FOR LENGTH TOLERANCES SEE TABLE 3. "END TO END" LENGTH MEASUREMENTS IS THE SAME AS THE "GAGE DIAMETER" TO "GAGE DIAMETER" BECAUSE BOTH ENDS ARE 90° ELBOWS.
- /7/ A TRUE CIRCULAR CROSS SECTION IS NOT REQUIRED THROUGH THE FITTING ID. HOWEVER, THE APPLICABLE MINIMUM BALL DIAMETER LISTED IN TABLE 1 MUST BE CAPABLE OF PASSING THROUGH THE HOSE ASSEMBLY.
- /8/ DISTANCE ACROSS CORNERS OF THE HEX MAY EXCEED THIS DIMENSION.
- /9/ FITTING END IN SIZE CODES E THROUGH M MUST CONFORM TO NAS1760 TO MATE WITH AS33514 OR AS4375. FITTING END FOR SIZE CODE N AND LARGER MUST CONFORM TO AS4703 TO MATE WITH AS4658 OR AS4659. STANDARD COUPLING NUTS SHALL BE IN ACCORDANCE WITH OR EQUIVALENT TO AS5234 OR AS4370. SIZE CODE N AND LARGER NUTS SHALL CONFORM TO AS4660 OR AS4702. NUTS SHALL MEET THE TORQUE REQUIREMENTS PER AS1975.