

300

# AS158

SAP Technical Board rules provide that: "All technical reports, including standards approved and practices recommended, are advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. There is no agreement to adhere to an SAE standard or recommended practice, and no commitment to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against liability for infringement of patents."

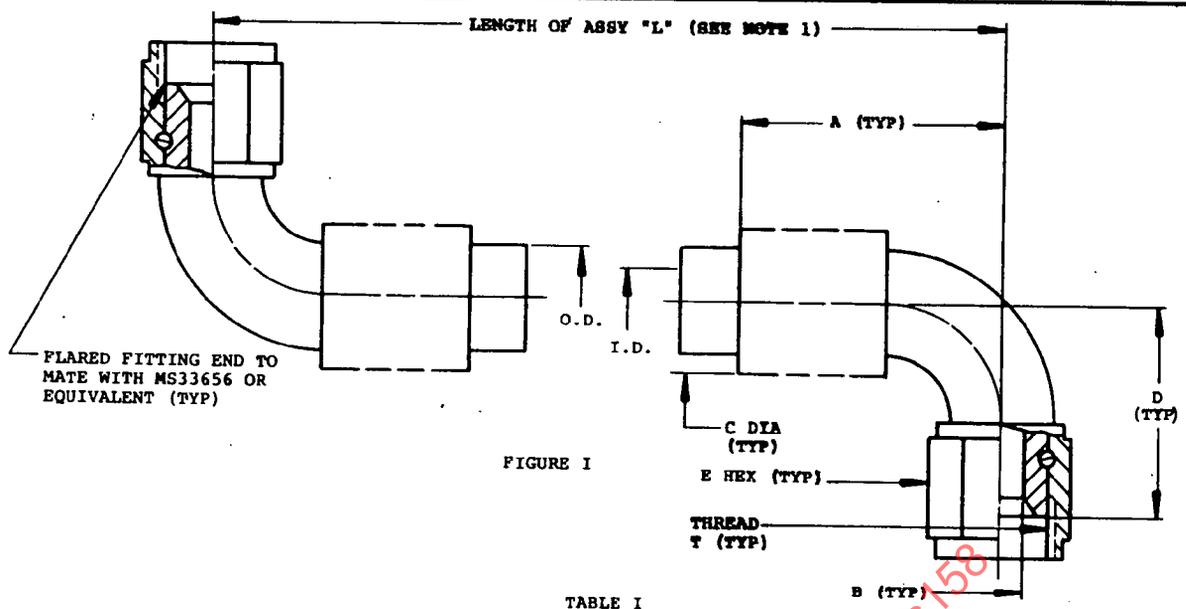


FIGURE 1

TABLE I

HOSE ASSEMBLY NO. AND SIZE CODE	HOSE ASSEMBLY SIZE REF	THREAD T PER MIL-S-8879 REF	I.D. MIN	A MAX	B MIN DIA THRU	C DIA MAX WITHOUT BLEEDING	D		E HEX REF
							MIN	MAX	
AS158E	1/4	.4375-20UNJF-3B	.212	1.75	.141	.69	.619	.740	.56
AS158G	3/8	.5625-18UNJF-3B	.296	2.00	.250	.80	.830	.913	.69
AS158H	1/2	.7500-16UNJF-3B	.391	2.38	.360	.97	.910	1.130	.88
AS158J	5/8	.8750-14UNJF-3B	.485	2.81	.455	1.11	1.110	1.304	1.00
AS158K	3/4	1.0625-12UNJ -3B	.602	3.25	.568	1.38	1.343	1.500	1.25
AS158M	1	1.3125-12UNJ-3B	.852		.760	1.66			1.50

TABLE II

HOSE ASSEMBLY LENGTH	AVAILABLE INCREMENTS	TOLERANCE
UNDER 18 INCHES	(NOT LESS THAN) 1/8 INCH	(PLUS OR MINUS) .125 INCH
18 TO 36 INCHES	(NOT LESS THAN) 1/4 INCH	(PLUS OR MINUS) .250 INCH
36 TO 50 INCHES	(NOT LESS THAN) 1/2 INCH	(PLUS OR MINUS) .500 INCH
OVER 50 INCHES	(NOT LESS THAN) 1 INCH	(PLUS OR MINUS) 1 PERCENT

TABLE III

SLEEVING CODE OR HOSE	TYPE OF SLEEVING OR HOSE	HOSE OR SLEEVE O.D. MAX						TEMPERATURE LIMIT
		HOSE SIZE						
		1/4	3/8	1/2	5/8	3/4	1	
NONE	HOSE ONLY	.410	.540	.640	.745	.990		400°F
A	TUBULAR ABRASION (TFE)	.580	.678	.800	.850	1.184		400°F
B	SPIRAL ABRASION	.508	.612	.754	.847	1.080		275°F
C	FIRESLLEEVE	.875	.940	1.100	1.230	1.480		400°F
D	INTEGRAL ABRASION	.500	.625	.708	.832	1.112		400°F
E	SHRINK ABRASION (FEP)	.470	.600	.700	.805	1.050		400°F
F	SHRINK ABRASION (POLYOLEFIN)	.470	.610	.700	.815	1.050		275°F

PREPARED BY SAE COMMITTEE G-3, AEROSPACE FITTINGS, HOSE AND TUBING ASSEMBLIES

Society of Automotive Engineers, Inc.  
400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096

**AEROSPACE STANDARD**  
HOSE ASSEMBLY, NONMETALLIC-3000 PSI, TFE, FLARED, 90° TO 90°, LIGHT WEIGHT.

# AS158

SH 1 OF 3

Issued 2-1-79

TABLE IV

HOSE SIZE (REF)	MAXIMUM WEIGHTS					
	HOSE LBS/INCH	SPIRAL SLEEVE LBS/INCH	TFE SLEEVE LBS/INCH	FIRE SLEEVE LBS/INCH	FIRE SLEEVE CLAMPS (LBS) EACH	STANDARD END FITTING (LBS) EACH
04	.010	.001	.003	.010	.025	.075
06	.015	.002	.003	.014	.025	.121
08	.021	.003	.004	.016	.025	.207
10	.028	.003	.004	.017	.026	.306
12	.055	.004	.006	.022	.026	.584

TABLE V

HOSE SIZE	LENGTH (INCHES)
04	2.00 ± .25
06	
08	2.50 ± .25
10	
12	3.00 ± .25
16	

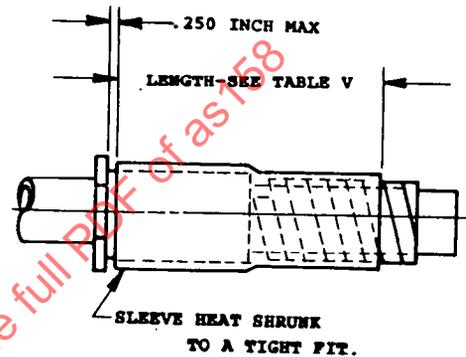


FIGURE 2

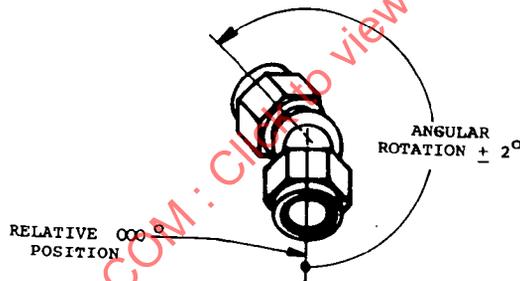


FIGURE 3.

CONSTRUCTION AND PERFORMANCE: THESE HOSE ASSEMBLIES SHALL MEET THE CONSTRUCTION AND PERFORMANCE REQUIREMENTS OF AS 1339. FITTINGS SHALL BE PERMANENTLY ATTACHED TO THE HOSE.

RATED OPERATING CHARACTERISTICS: SEE AS 1339.

MATERIALS: HOSE AND FITTINGS-PER AS1339.  
 TUBULAR ABRASION SLEEVE (TFE) - BLACK, EXTRUDED SEAMLESS TFE TUBING PER AS 1291.  
 SPIRAL ABRASION SLEEVE - BLACK, NYLON COIL PER AS1294.  
 FIRESLEEVE - ASBESTOS, IMPREGNATED WITH SILICON RUBBER PER AS1072 "SIL" CODED.  
 INTEGRAL ABRASION SLEEVE - BLACK, INTEGRALLY BONDED SILICON/TFE COMPOSITE.  
 SHRINK ABRASION SLEEVE (FEP) - TRANSLUCENT, SHRINKABLE FEP TUBING PER MIL-I-23053/11.  
 SHRINK ABRASION SLEEVE (POLYOLEFIN) - BLACK, SHRINKABLE POLYOLEFIN TUBING PER AMS 3587 OR MIL-R-46846 TYPE 5.

PREPARED BY SAE COMMITTEE G-3, AEROSPACE FITTINGS, HOSE AND TUBING ASSEMBLIES

AEROSPACE STANDARD

HOSE ASSEMBLY, NONMETALLIC-3000 PSI, TFE, FLARED 90° TO 90° LIGHTWEIGHT

AS158