

REV.
A

SAE AS1542

RATIONALE

FEDERAL SUPPLY CLASS
4720

AS1542A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

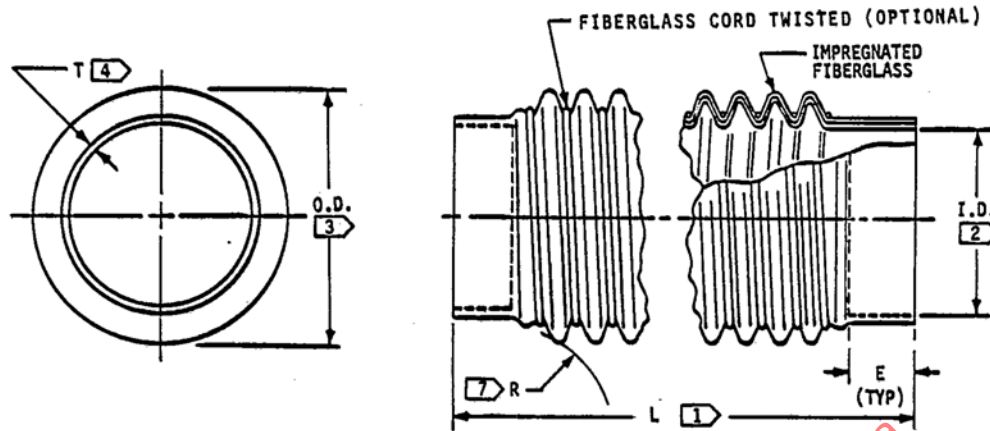


TABLE I
TABULATION OF OPERATING PRESSURE AND PART NUMBER GRADE

GRADE	TYPE (OPERATING TEMPERATURE)	OPERATING PRESSURE RATING (PSI) ("O" PSI TO PRESSURES LISTED BELOW)						
		HOSE INSIDE DIAMETER (INCHES)						
		1	2	3	4	5		6
A /6/	II	10	5	4	4	3	3	

TABLE II
TABULATION OF HOSE LENGTH SPECIFICATIONS

I.D. HOSE INSIDE DIAMETER - INCH	L - HOSE LENGTH (INCHES)		E SOFT END LENGTH (INCHES ±0.12)
	MINIMUM	MAXIMUM	
0.75 TO 6.00	3.75	120.00	1.50

TABLE III
TABULATION OF AVAILABLE HOSE LENGTH INCREMENTS AND TOLERANCES

L - HOSE LENGTH (INCHES)	AVAILABLE INCREMENT (INCH)	L - LENGTH TOLERANCE
3.75 TO 48.00	1.00	±1.00
49.00 TO 120.00	1.00	±1.50

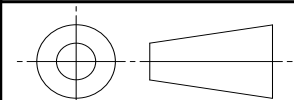
FLAG NOTES:

- LENGTH "L" IS A THREE DIGIT NUMBER OF WHICH THE THREE DIGITS DESCRIBE THE HOSE ASSEMBLY LENGTH IN WHOLE INCHES. SEE TABLES II AND III FOR LENGTH SPECIFICATIONS AND TOLERANCES.
- DIAMETERS ARE IN 0.25 INCREMENTS. MINIMUM INSIDE DIAMETER (I.D.) IS 0.75 INCH AND MAXIMUM INSIDE DIAMETER (I.D.) IS 6.00 INCHES. TOLERANCE FOR THE CONVOLUTED SECTION I.D. AND FOR THE SOFT END SECTION I.D. IS -0.01 TO +0.03 INCH.
- OUTSIDE DIAMETER (O.D.) OF CONVOLUTION CRESTS SHALL NOT EXCEED THE NOMINAL INSIDE DIAMETER BY MORE THAN THE FOLLOWING AMOUNTS:

NOMINAL I.D. (INCHES)	O.D. INCREASE (INCHES)
0.75 TO 2.75	0.38
3.00 TO 4.75	0.50
5.00 TO 6.00	0.75

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS1542A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS1501

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD
HOSE, AIR DUCT, FLEXIBLE, HELICAL CONVOLUTED,
SELF EXTINGUISHING

SAE AS1542
SHEET 1 OF 2

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