

RATIONALE

FEDERAL SUPPLY CLASS
4720

AS1543A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

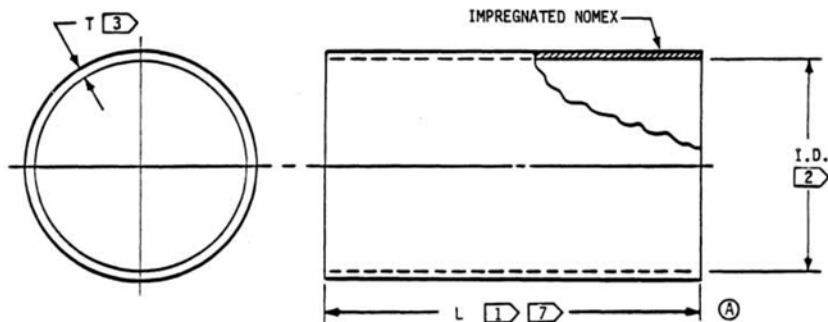


TABLE I

TABULATION OF OPERATING PRESSURE AND PART NUMBER GRADES

GRADE	TYPE (OPERATING TEMPERATURE)	OPERATING PRESSURE RATING (PSI) ("O" PSI TO PRESSURE LISTED BELOW)										
		HOSE INSIDE DIAMETER (INCHES)										
		1	2	3	4	5	6	8	10	12	14	
A	5	II	15.0	12.0	10.5	9.0	7.5	7.0	5.0	4.0	3.5	3.0
B	6	II	10 INCHES H ₂ O									

TABLE II

TABULATION OF HOSE LENGTH SPECIFICATION A

I. D. HOSE INSIDE DIAMETER - INCH	L - HOSE LENGTH (INCHES)	
	7 MINIMUM	MAXIMUM
0.50 TO 2.50	2.00	6.00
2.75 TO 14.00	2.50	6.00

TABLE III

TABULATION OF AVAILABLE HOSE LENGTH INCREMENTS AND TOLERANCES A

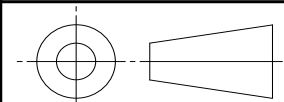
L - HOSE LENGTH (INCHES)	AVAILABLE INCREMENT (INCH)	L - LENGTH TOLERANCE
2.00 TO 6.00	.25	±0.12

FLAG NOTES:

- LENGTH "L" IS A TWO DIGIT NUMBER OF WHICH THE FIRST DIGIT DESCRIBES THE HOSE ASSEMBLY LENGTH IN WHOLE INCHES, AND THE SECOND DIGIT, THE FRACTION OF AN INCH IN FOURTHS. SEE TABLES II AND III FOR LENGTH SPECIFICATIONS AND TOLERANCES.
- DIAMETERS ARE IN 0.25 INCREMENTS. MINIMUM INSIDE DIAMETER (I.D.) IS 0.50 INCH AND MAXIMUM INSIDE DIAMETER (I.D.) IS 14.00 INCHES. INSIDE DIAMETER TOLERANCE IS -0.01 TO +0.03 INCH.
- HOSE WALL THICKNESS VARIES FOR GRADE "A" FROM .028 TO .050 EXCEPT OVERLAPS SHALL BE .060 MAX. AND FOR GRADE "B" FROM .019 TO .027 EXCEPT OVERLAPS SHALL BE .040.
- FOR FRACTIONAL DIAMETER HOSE OPERATING PRESSURE, USE PRESSURE LISTED FOR NEXT LARGER HOSE DIAMETER.
- GRADE "A" MAXIMUM HOSE WEIGHT: 0.07 LB/FT (LENGTH)/INCH DIAMETER
MAXIMUM HOSE LEAKAGE: 0.01 SCFM/FT (LENGTH)/INCH DIAMETER
TOTAL JOINT LEAKAGE: 0.10 SCFM/INCH DIAMETER
- GRADE "B" MAXIMUM HOSE WEIGHT: 0.045 LB/FT (LENGTH)/INCH DIAMETER
MAXIMUM HOSE LEAKAGE: 0.02 SCFM/FT (LENGTH)/INCH DIAMETER
TOTAL JOINT LEAKAGE: 0.20 SCFM/INCH DIAMETER

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS1543A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS1501

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

HOSE, AIR DUCT, SEMIFLEXIBLE, SLEEVE SECTION
UNREINFORCED, SELF EXTINGUISHING, NOMEX

SAE AS1543
SHEET 1 OF 2

REV.
A