

Submitted for recognition as an American National Standard

FEDERAL SUPPLY CLASS
4720

REV.
B

AS1506

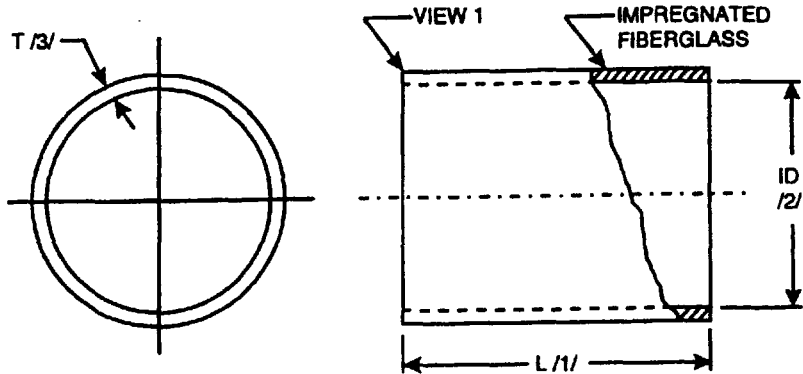


FIGURE 1

TABLE 1 – TABULATION OF OPERATING PRESSURE AND PART NUMBER GRADES

GRADE	TYPE (OPERATING TEMPERATURE)	OPERATING PRESSURE RATING (PSI) (*0° PSI TO PRESSURE LISTED BELOW) /4/											
		HOSE INSIDE DIAMETER (INCHES)											
		01	02	03	04	05	06	07	08	09	10	11	12
A /5/	I	40	34	28	22	16	12	8	6	4	3	3	2
A /6/	II												
C /7/	I												
D /7/	II	20	17	14	11	8	6	4	3	2	2	1	1

TABLE 2 – TABULATION OF HOSE LENGTH SPECIFICATIONS

ID HOSE INSIDE DIAMETER (INCH)	L - HOSE LENGTH (INCHES)		
	GRADES "A" AND "B" MINIMUM /8/	GRADES "C" AND "D" MINIMUM /8/	ALL GRADES MAXIMUM
	.50 TO 4.00	3.50	2.75
4.25 TO 12.00	3.75	3.00	6.00

TABLE 3 – TABULATION OF AVAILABLE HOSE LENGTH INCREMENTS AND TOLERANCES

L - HOSE LENGTH (INCHES)	AVAILABLE LENGTH INCREMENT (INCH)	L - LENGTH TOLERANCE (INCH)
2.00 TO 6.00	.25	±.12

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS1501

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

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

AS1506
SHEET 1 OF 3

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FLAG NOTES:

- /1/ 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 TABLE 2 AND 3 FOR LENGTH SPECIFICATION AND TOLERANCES.
- /2/ DIAMETERS ARE IN .25 INCH INCREMENTS. MINIMUM INSIDE DIAMETER (ID) IS .50 INCH AND MAXIMUM INSIDE DIAMETER (ID) IS 12.00 INCHES. INSIDE DIAMETER TOLERANCE IS -.01 TO +.03 INCH.
- /3/ HOSE WALL THICKNESS VARIES FROM .040 TO .080 INCH FOR GRADES "A" AND "B" AND .020 TO .050 INCH FOR GRADES "C" AND "D".
- /4/ FOR FRACTIONAL DIAMETER HOSE OPERATING PRESSURE, USE PRESSURE LISTED FOR NEXT LARGEST HOSE DIAMETER.
- /5/ GRADES "A" - MAXIMUM HOSE WEIGHT: .10 LB/FT (LENGTH)/INCH DIAMETER
MAXIMUM HOSE LEAKAGE: .01 SCFM/FT (LENGTH)/INCH DIAMETER
TOTAL JOINT LEAKAGE: .10 SCFM/INCH DIAMETER
- /6/ GRADE "B" - MAXIMUM HOSE WEIGHT: .12 LB/FT (LENGTH)/INCH DIAMETER
MAXIMUM HOSE LEAKAGE: .01 SCFM/FT (LENGTH)/INCH DIAMETER
TOTAL JOINT LEAKAGE: .10 SCFM/INCH (DIAMETER)
- /7/ GRADES "C" AND "D" - MAXIMUM HOSE WEIGHT: .075 LB/FT (LENGTH)/INCH DIAMETER
MAXIMUM HOSE LEAKAGE: .02 SCFM/FT (LENGTH)/INCH DIAMETER
TOTAL JOINT LEAKAGE: .10 SCFM/INCH DIAMETER
- /8/ MINIMUM HOSE LENGTH MAY BE REDUCED BY .75 WHEN USING NAS 1922 CLAMP.

PROCUREMENT SPECIFICATION: AS1501, FORM 4, TYPES I AND II

MATERIAL: IN ACCORDANCE WITH AS1501

FINISH: AS MANUFACTURED

MARKING: IN ACCORDANCE WITH AS1501

OPERATING TEMPERATURE: TYPE I, -65 °F TO +250 °F (-54 °C TO +121 °C)
TYPE II, -65 °F TO +500 °F (-54 °C TO +260 °C)

GENERAL NOTES:

- A. HOSE SOFT ENDS SHALL BE SUITABLE FOR INSTALLATION OVER A RIGID TUBE END WITH MS33660, TYPE "A" BEAD, OR AS5131.
- B. HOSE CLAMP AND TORQUE REQUIREMENTS SHOULD BE SPECIFIED ON INSTALLATION DRAWING. ALLOWABLE HOSE PRESSURE AND HOSE END LEAKAGE ARE DEPENDENT ON TYPE CLAMP USED, CLAMP TORQUE AND STIFFNESS AND CONFIGURATION OF RIGID HOSE END.
- C. DO NOT USE UNASSIGNED DIAMETER AND LENGTH CODES.
- D. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.

AEROSPACE STANDARD

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

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