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REV.
B

AS1505™

RATIONALE

FEDERAL SUPPLY CLASS
4720

GRAPHICS REDRAWN; VIEW II REVISED. TABLE 1C ADDED SHOWING NEW GRADE "E" THAT ALLOWS NEGATIVE INTERNAL PRESSURE AND INCREASES DIAMETER TO 12 INCHES TO EXPAND THE USAGE OF AS1505 IN THE INDUSTRY. MS33660 (OBSOLETE) UPDATED BY AS5131 (EQUAL REPLACEMENT). NOTE /2/ REVISED TO INCLUDE INFORMATION REGARDING NEWLY ADDED GRADE "E." NEW NOTES /9/ AND /11/ ADDED TO FLAG NOTE SECTION. NOTES 6 AND 7 ADDED TO GENERAL NOTES SECTION.

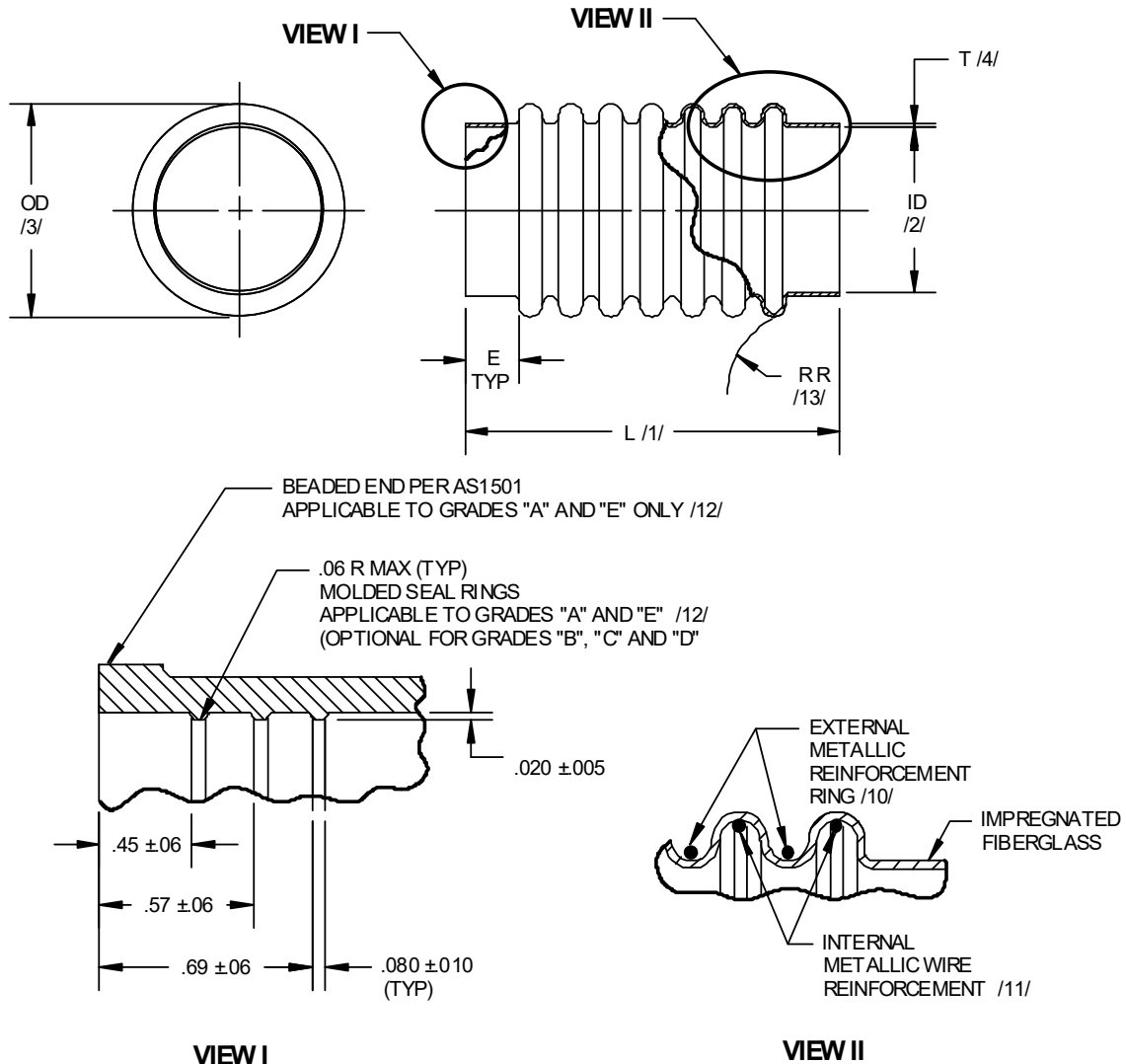
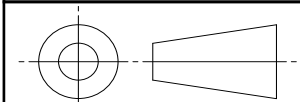


FIGURE 1

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1505B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS1501



AEROSPACE STANDARD

(R) HOSE, AIR DUCT, FLEXIBLE,
ANNULAR CONVOLUTED, SELF EXTINGUISHING

AS1505™
SHEET 1 OF 4

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**TABLE 1A - TABULATION OF OPERATING PRESSURE AND PART NUMBER GRADES
(EXTERNAL METALLIC REINFORCEMENT RINGS)**

GRADE	TYPE (OPERATING TEMPERATURE) /14/	OPERATING PRESSURE RATING (PSI) ("0" PSI TO PRESSURE LISTED BELOW)											
		HOSE INSIDE DIAMETER (INCHES) /5/											
		1	2	3	4	5	6	7	8	9	10	11	12
A /6/	II	60	52	42	34	27	22	18	14	10	7	--	--

TABLE 1B - (NO EXTERNAL METALLIC AND INTERNAL REINFORCEMENT RINGS)

GRADE	TYPE (OPERATING TEMPERATURE) /14/	OPERATING PRESSURE RATING (PSI) ("0" PSI TO PRESSURE LISTED BELOW)											
		HOSE INSIDE DIAMETER (INCHES) /5/											
		1	2	3	4	5	6	7	8	9	10	11	12
B /7/	II	12	8	5	3	2	1	.7	.5	.4	.3	--	--
C /8/	I	6	4	2	1	.7	.5	.3	.2	.2	.2	--	--
D /8/	II	6	4	2	1	.7	.5	.3	.2	.2	.2	--	--

TABLE 1C - (EXTERNAL AND INTERNAL METALLIC REINFORCEMENT RINGS)

GRADE	TYPE (OPERATING TEMPERATURE) /14/	OPERATING PRESSURE RATING (PSI) ("1" PSI TO PRESSURE LISTED BELOW)											
		HOSE INSIDE DIAMETER (INCHES) /5/											
		1	2	3	4	5	6	7	8	9	10	11	12
E /9/	II	60	52	42	34	27	22	18	14	10	7	7	7

TABLE 2 - TABULATION OF HOSE LENGTH SPECIFICATIONS

ID HOSE INSIDE DIAMETER - INCH	L - HOSE LENGTH (INCHES)		E SOFT END LENGTH (INCHES) ±.12
	MINIMUM	MAXIMUM	
.50 TO 2.50	3.50	120	1.50
2.75 TO 12.00	3.50	72	1.50

TABLE 3 - TABULATION OF AVAILABLE HOSE LENGTH INCREMENTS AND TOLERANCES

L - HOSE LENGTH (INCHES)	AVAILABLE LENGTH INCREMENT (INCH)	L - LENGTH TOLERANCE (INCH)
3.50 TO 36.00	.25	±.25 OR 3% IF GREATER
36.50 TO 60.00	.50	±3%
60.00 TO 120.00	1.00	±3%

FLAG NOTES:

- /1/ LENGTH "L" IS A FOUR DIGIT NUMBER OF WHICH THE FIRST THREE DIGITS DESCRIBE THE HOSE ASSEMBLY LENGTH IN WHOLE INCHES, AND THE FOURTH DIGIT, THE FRACTION OF AN INCH IN FOURTHS. SEE TABLES 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 10.00, EXCEPT FOR GRADE "E" WHICH IS 12.00. TOLERANCE FOR THE CONVOLUTED SECTION ID AND FOR THE SOFT END SECTION ID IS -.01 TO +.03 INCH.

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