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REV.
A

AS81914™/7

FEDERAL SUPPLY CLASS
9330

RATIONALE

REVISION IS REQUIRED TO CORRECT TABLE 1 FOR DASH NUMBER 02, THE INSIDE DIAMETER IS 29/32 AND SHOULD BE 9/32. ALSO, THE REQUIREMENTS AND PART NUMBER NEED CLARIFICATION PERTAINING TO THE INDIVIDUAL DETAIL SHEET REFERENCES.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81914.

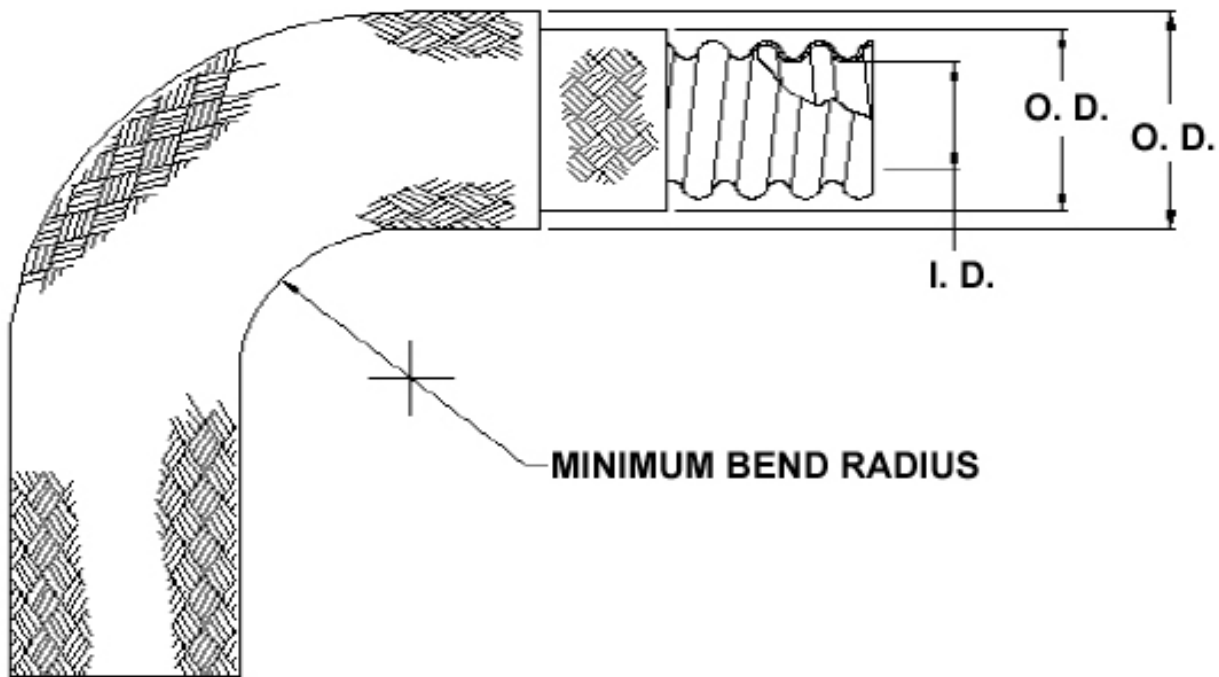
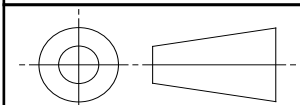


FIGURE 1 - DIMENSIONS AND CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81914/7A/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS81914



AEROSPACE STANDARD

(R) TUBING, PLASTIC, FLEXIBLE, CONVOLUTED
WITH INTEGRAL BRAID(S)

AS81914™/7
SHEET 1 OF 3

REV.
A

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ISSUED 2011-01 REVISED 2016-05 REAFFIRMED 2021-01

TABLE 1 – FIGURE 1 DIMENSIONS

DASH NUMBER	INSIDE DIAMETER (I.D.) REF.	MAX OUTER DIA. (O.D.) SINGLE BRAID	MAX OUTER DIA. (O.D.) DOUBLE BRAID	MIN BEND RADIUS SINGLE BRAID	MIN BEND RADIUS DOUBLE BRAID	APPROX. WEIGHT POUNDS (KG) PER 100 FEET (30.5M) REF. SINGLE BRAID	APPROX. WEIGHT LBS (KG) PER 100 FEET (30.5M) REF. DOUBLE BRAID
01	3/16	.390 (9.91)	.450 (11.43)	.500 (12.70)	.75 (19.05)	5.5 (2.49)	8.7 (3.95)
02	9/32	.485 (12.32)	.540 (13.72)	.750 (19.05)	1.00 (25.40)	7.7 (3.49)	11.7 (5.31)
03	5/16	.510 (12.95)	.570 (14.48)	.875 (22.23)	1.25 (31.75)	8.7 (3.95)	12.7 (5.76)
04	3/8	.590 (14.99)	.650 (16.51)	1.000 (25.40)	1.50 (38.10)	10.4 (4.72)	15.1 (6.85)
05	7/16	.660 (16.77)	.720 (18.29)	1.250 (31.75)	2.00 (50.80)	11.3 (5.13)	16.0 (7.26)
06	1/2	.730 (18.54)	.780 (19.81)	1.500 (38.10)	2.25 (57.15)	12.8 (5.81)	18.8 (8.53)
07	5/8	.850 (21.59)	.900 (22.86)	1.750 (44.45)	2.50 (63.50)	16.3 (7.39)	23.5 (10.66)
08	3/4	1.045 (26.54)	1.095 (27.81)	1.875 (47.63)	2.87 (72.90)	21.1 (9.57)	28.5 (12.93)
09	7/8	1.170 (29.72)	1.220 (30.98)	2.250 (57.15)	3.25 (82.55)	22.3 (10.10)	29.7 (13.47)
10	1	1.330 (33.78)	1.380 (35.05)	2.500 (63.50)	3.62 (91.95)	25.3 (11.48)	33.8 (15.33)
11	1 1/8	1.460 (37.08)	1.510 (38.35)	2.750 (69.85)	4.00 (101.60)	36.7 (16.65)	55.9 (25.36)
12	1 1/4	1.609 (40.87)	1.659 (42.14)	3.000 (76.20)	4.25 (107.95)	38.8 (17.60)	58.0 (26.31)
13	1 1/2	1.920 (48.77)	1.970 (50.04)	3.750 (95.25)	4.37 (111.00)	46.1 (20.91)	66.2 (30.03)
14	1 3/4	2.170 (55.12)	2.220 (56.39)	4.250 (107.95)	4.62 (117.35)	50.6 (22.95)	71.6 (32.48)
15	2	2.420 (61.47)	2.470 (62.74)	4.750 (120.65)	5.25 (133.35)	56.1 (25.45)	78.9 (35.79)

TABLE 2 – ORDER LENGTH TOLERANCE

ORDER LENGTH RANGE	
LENGTH IN FEET (METERS)	TOLERANCE IN INCHES (MM)
3 – 12 (0.914 M – 3.66 M)	+ 2.0 / - 0.0 (+ 50.8 MM / - 0.0 MM)
13 – 50 (3.96 M – 15.24 M)	+ 4.0 / - 0.0 (+ 101.6 MM / - 0.0 MM)
51 AND UP (15.55 M AND UP)	+ 6.0 / - 0.0 (+ 152.4 MM / - 0.0 MM)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS81914.

1. DESIGN:

TUBING SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED TOLERANCES SHALL BE: .XX = ± .010 (0.25 MM), .XXX = ± .005 (0.13 MM). METRIC DIMENSIONS IN PARENTHESES ARE SHOWN IN MILLIMETERS, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 25.4 MM = 1 INCH.

CONVOLUTION TYPE: SEE SPECIFIC TUBING DETAIL SHEET AND PART NUMBER EXAMPLE.

	AEROSPACE STANDARD	AS81914™/7 SHEET 2 OF 3 	REV. A
	(R) TUBING, PLASTIC, FLEXIBLE, CONVOLUTED WITH INTEGRAL BRAID(S)		



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