

INCH-POUND

AN915 Rev 12
 19 July 2011
 SUPERSEDING
 AN915 Rev 11
 10 February 1984

DETAIL SPECIFICATION SHEET

ELBOW, PIPE, 45°

Reinstated after 19 July 2011. Inactive for new design.
 For new design, use SAE-AS4855.

This specification is approved for use by all Departments and
 Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and
 SAE-AS4842.

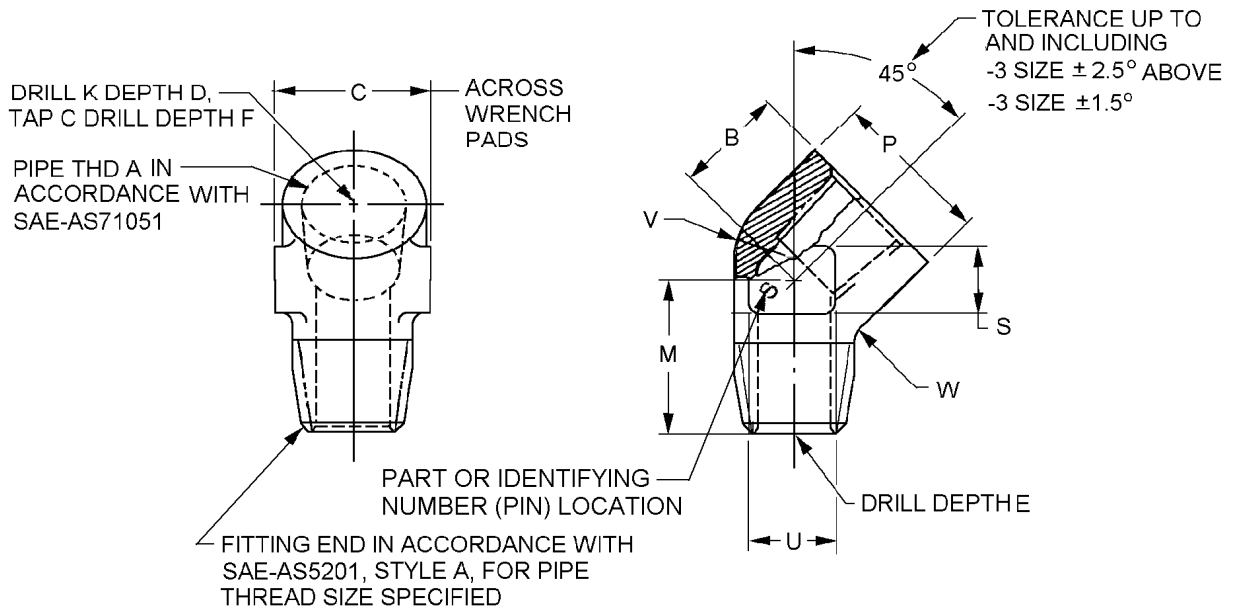


FIGURE 1. Elbow 45° dimensions and configuration.

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Dash number	A Pipe size ANPT SAE-AS71051	B +.047 (1.19) -0.000 inches (mm)	C inches (mm)	D +.047 (1.19) -0.000 inches (mm)	E +.047 (1.19) -0.000 inches (mm)	F inches (mm)
1	1/8-27	.641 (16.28)	.625 (15.88)	.531 (13.49)	.781 (19.84)	.422 (10.72)
2	1/4-18	.891 (22.63)	.813 (20.65)	.688 (17.48)	1.109 (28.17)	.563 (14.30)
3	3/8-18	.969 (24.61)	.938 (23.83)	.813 (20.65)	1.156 (29.36)	.609 (15.47)
4	1/2-14	1.234 (31.34)	1.188 (30.18)	1.016 (25.81)	1.453 (36.91)	.797 (20.24)
6	3/4-14	1.344 (34.14)	1.375 (34.93)	1.125 (28.58)	1.531 (38.89)	.813 (20.65)
8	1-11 1/2	1.625 (41.28)	1.750 (44.45)	1.313 (33.35)	1.906 (48.41)	.969 (24.61)
10	1/ 1/4-11 1/2	1.688 (42.88)	2.156 (54.76)	1.438 (36.53)	2.156 (54.76)	.969 (24.61)

Dash number	K Dia. inches (mm)	M +.047 (1.19) -0.000 inches (mm)	P Dia. inches (mm)	S Approx inches (mm)	U Approx inches (mm)
1	.188 (4.48)	.719 (18.26)	.578 (14.68)	.188 (4.78)	.313 (7.95)
2	.281 (7.14)	1.047 (26.59)	.781 (19.84)	.375 (9.53)	.438 (11.13)
3	.406 (10.31)	1.063 (27.00)	.922 (23.42)	.375 (9.53)	.500 (12.70)
4	.531 (13.49)	1.344 (34.14)	1.156 (29.36)	.500 (12.70)	.625 (15.88)
6	.719 (18.26)	1.375 (34.93)	1.359 (34.52)	.625 (15.88)	.750 (19.05)
8	.938 (23.83)	1.719 (43.66)	1.688 (42.88)	.625 (15.88)	.875 (22.23)
10	1.250 (31.75)	1.875 (47.63)	2.063 (52.40)	.750 (19.05)	1.000 (25.40)

Dash number	V Rad. inches (mm)	W Rad. inches (mm)
1	.219 (5.56)	.063 (1.60)
2	.281 (7.14)	.094 (2.39)
3	.359 (9.12)	.094 (2.39)
4	.438 (11.13)	.125 (3.18)
6	.547 (13.89)	.125 (3.18)
8	.688 (17.48)	.125 (3.18)
10	.859 (21.82)	.156 (3.96)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are ± 0.016 inch (0.41 mm).
4. Break sharp edges and remove all hanging burrs and slivers
5. Machined surfaces shall be finished to 125 μ m Ra, forged surfaces shall be 250 μ m Ra, unless otherwise specified on the figures. Surface finish shall be in accordance with ASME B46.1.
6. For design features purposes, this standard takes precedence over documents referenced herein.
7. Referenced documents shall be of the issue in effect on date of invitation for bid.

FIGURE 1. Elbow 45° dimensions and configuration - Continued.

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REQUIREMENTS:

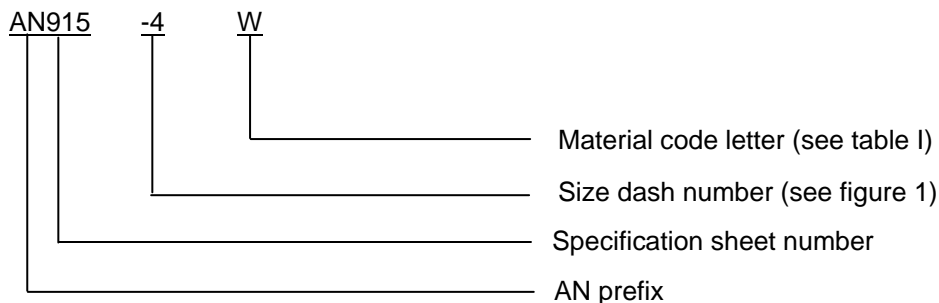
Dimensions and configuration shall be in accordance with figure 1.

Materials and finishes shall be in accordance with SAE-AS4842, see table I for material code.

TABLE I. Material and code letters.

Code letter	Material
Blank	Copper alloy
J	Corrosion resistant steel (CRES), type 304
K	CRES, type 316
R	CRES. Type 321
W	Aluminum alloy 7075-T73

PIN: The PIN consists of the prefix "AN" the specification sheet number, a dash number for pipe size, and material code letter. Unassigned PIN's shall not be used.



PIN example: AN915-4W indicates a 45° elbow, 1/2-14 ANPT internal pipe threads, aluminum alloy 7075-T73.

Supersession data:

Due to stress corrosion cracking aluminum alloys 2014 and 2024 "D" designator has been replaced by aluminum alloy 7075 "W" designator. Example: AN915-8D use AN915-8W.

Metal cracking due to high temperatures CRES alloy 347 "S" designator has been replaced by CRES alloy 321 "R" designator. Example: AN915-8S use AN915-8R.

Marking: Part shall be permanently marked with the AN PIN, and include the manufacturers CAGE, name, or trademark.

Table II provides a detailed cross-reference of AN915 PINs and replacement SAE-AS4855 PINs. Users are cautioned to evaluate replacements for their particular application.

CAUTION: The superseding information is valid as of the date of this specification and may be superseded by subsequent revisions of the superseding document.

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TABLE II. Cross-reference data.

AN PIN (inactive)	Pipe size	Replacement AS PIN (for new design)	Replacement AN PIN (inactive)
AN915-1	.125	AS4855-01	
AN915-1D	.125	AS4855W01	AN915-1W
AN915-1J	.125	AS4855J01	
AN915-1K	.125	AS4855K01	
AN915-1S	.125	AS4855R01	
AN915-1S	.125	AS4855R01	AN915-1R
AN915-1W	.125	AS4855W01	
AN915-2	.250	AS4855-02	
AN915-2D	.250	AS4855W02	AN915-2W
AN915-2J	.250	AS4855J02	
AN915-2K	.250	AS4855K02	
AN915-2S	.250	AS4855R02	
AN915-2S	.250	AS4855R02	AN915-2R
AN915-2W	.250	AS4855W02	
AN915-3	.375	AS4855-03	
AN915-3D	.375	AS4855W03	AN915-3W
AN915-3J	.375	AS4855J03	
AN915-3K	.375	AS4855K03	
AN915-3S	.375	AS4855R03	
AN915-3S	.375	AS4855R03	AN915-3R
AN915-3W	.375	AS4855W03	
AN915-4	.500	AS4855-04	
AN915-4D	.500	AS4855W04	AN915-4W
AN915-4J	.500	AS4855J04	
AN915-4K	.500	AS4855K04	
AN915-4S	.500	AS4855R04	
AN915-4S	.500	AS4855R04	AN915-4R
AN915-4W	.500	AS4855W04	

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TABLE II. Cross-reference data - Continued.

AN PIN (inactive)	Pipe size	Replacement AS PIN (for new design)	Replacement AN PIN (inactive)
AN915-6	.750	AS4855-06	
AN915-6D	.750	AS4855W06	AN915-6W
AN915-6J	.750	AS4855J06	
AN915-6K	.750	AS4855K06	
AN915-6R	.750	AS4855R06	
AN915-6S	.750	AS4855R06	AN915-6R
AN915-6W	.750	AS4855W06	
AN915-8	1.000	AS4855-08	
AN915-8D	1.000	AS4855W08	AN915-8W
AN915-8J	1.000	AS4855J08	
AN915-8K	1.000	AS4855K08	
AN915-8R	1.000	AS4855R08	
AN915-8S	1.000	AS4855R08	AN915-8R
AN915-8W	1.000	AS4855W08	
AN915-10	1.250	AS4855-10	
AN915-10D	1.250	AS4855W10	AN915-10W
AN915-10J	1.250	AS4855J10	
AN915-10K	1.250	AS4855K10	
AN915-10R	1.250	AS4855R10	
AN915-10S	1.250	AS4855R10	AN915-10R
AN915-10W	1.250	AS4855W10	

Changes from previous issues. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to SAE-AS4842, this document references the following:

ASME B46.1
SAE-AS4855
SAE-AS5201
SAE-AS71051

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CONCLUDING MATERIAL

Custodians:

Army - AV
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2011-076)

Review activities:

Navy - MC, SH
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.