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REV.
A

AS4541™

FEDERAL SUPPLY CLASS
4730

RATIONALE

REVISE TYPO IN GRAPHICS CHANGING DESIGN STD CALLOUT FROM AS4702 TO AS4207. TABLE 1 REDRAWN FOR CLARITY. PROCUREMENT SPECIFICATION NOTE 5 ADDED INCLUDING QPL IMPLEMENTATION DATE. GENERAL UPDATES INCORPORATED TO LATEST PRACTICE.

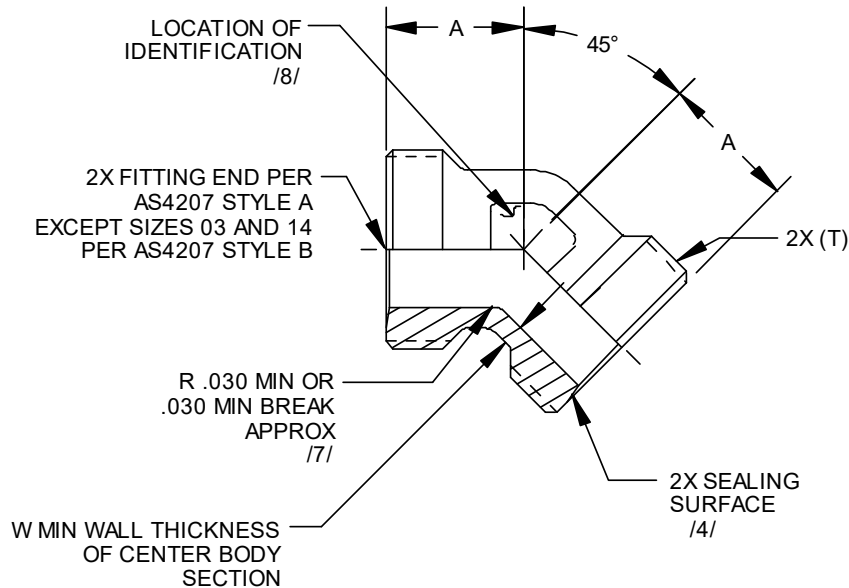
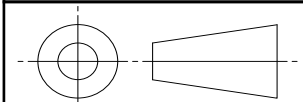


FIGURE 1 - ELBOW, 45°, BEAM SEAL, MALE

For more information on this standard, visit
<https://www.sae.org/standards/content/AS4541A/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS85421 /5/



AEROSPACE STANDARD

ELBOW, 45°,
BEAM SEAL, MALE,
4000 PSI, HYDRAULIC

AS4541™
SHEET 1 OF 3

REV.
A

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TABLE 1 - DIMENSIONS AND WEIGHT

BASIC NO. AS4541 /14/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A	B	W	WEIGHT MAX LB/EA CRES	WEIGHT MAX LB/EA TI
03	.188	.3750-28 UNJS	.378	.375	.050	.022	.013
04	.250	.4375-24 UNJS	.420	.375	.050	.031	.018
05	.312	.5000-24 UNJS	.438	.438	.050	.040	.023
06	.375	.5625-20 UNJS	.471	.500	.050	.050	.029
08	.500	.7188-20 UNJS	.528	.562	.050	.087	.051
10	.625	.8438-18 UNJS	.619	.688	.060	.128	.075
12	.750	1.0000-16 UNJ	.685	.875	.070	.171	.100
14	.875	1.1250-16 UNJ	.753	1.125	.080	TBD	TBD
16	1.000	1.2500-14 UNJS	.783	1.125	.090	.254	.149
20	1.250	1.5781-14 UNJS	.836	1.375	.100	TBD	TBD
24 /9/	1.500	1.8438-14 UNJS	1.003	1.625	.120	TBD	TBD

NOTES:

/1/ MATERIAL:

- a. CODE LETTER A: TYPE 6AL-4V TITANIUM ALLOY (ANNEALED) PER AMS4928.
- b. CODE LETTER P: TYPE 17-4 PH CORROSION RESISTANT STEEL PER AMS5643.
- c. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY (SOLUTION AND PRECIPITATION HEAT TREATED) PER AMS4965.
- d. CODE LETTER V: TYPE 15-5 PH CORROSION RESISTANT STEEL PER AMS5659.

2. HEAT TREATMENT: CORROSION RESISTANT STEEL TO CONDITION H 1075 PER AMS2759/3.

3. FINISH:

- a. CORROSION RESISTANT STEEL: PASSIVATE PER AMS2700, TYPE 2 OR 8.
- b. TITANIUM: NONE.

/4/ DRY FILM LUBRICANT: APPLY DRY FILM LUBRICANT PER AS5272, TYPE I TO SEALING SURFACE. OVERSPRAY IN BORE IS NOT PERMITTED.

/5/ PROCUREMENT SPECIFICATION: AS85421 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) AND VALUE ADDED DISTRIBUTORS (VAD) SHALL BE LISTED IN THE PRI QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS85421 FOR THIS STANDARD. SEE www.eAuditNet.com FOR CURRENT QPL ONLINE.

THIS QPL REQUIREMENT SHALL BE IN EFFECT FOR PURCHASE ORDERS PLACED ON OR AFTER DECEMBER 31, 2022. SUPPLIERS SEEKING LISTING ON THE INITIAL QPL MUST APPLY TO PRI FOR APPROVAL NO LATER THAN JULY 31, 2022. UNTIL THE QPL IS IN EFFECT, USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVALS. TRANSITION TO PRI-QPL SHALL BE COMPLETED BY DECEMBER 31, 2022.

6. WHEN MACHINING FROM BAR STOCK, THE CENTER BODY DIMENSIONS SHALL CONFORM TO AS1376, TABLE 4.

/7/ APPLICABLE TO TITANIUM PARTS ONLY.

/8/ IDENTIFICATION: MARK PER AS478 -7A3, -15A3, -15B, CLASS C, OR CLASS D.

- a. FOR SIZES 06 (.375 OD TUBE SIZE) AND SMALLER, MANUFACTURER'S NAME OR TRADEMARK, MATERIAL CODE LETTER AND PRESSURE RATING. (EXAMPLE: 4K = 4000 PSI.)
- b. FOR SIZES 08 (.500 OD TUBE SIZE) AND LARGER, MANUFACTURER'S NAME OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER, AND PRESSURE RATING. (EXAMPLE: 4K = 4000 PSI.)

	AEROSPACE STANDARD		AS4541™ SHEET 2 OF 3	REV. A
	ELBOW, 45°, BEAM SEAL, MALE, 4000 PSI, HYDRAULIC			



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