

REV.
A

AS4141

FEDERAL SUPPLY CLASS
4730

NOTE

THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS REGARDING ITS USE.

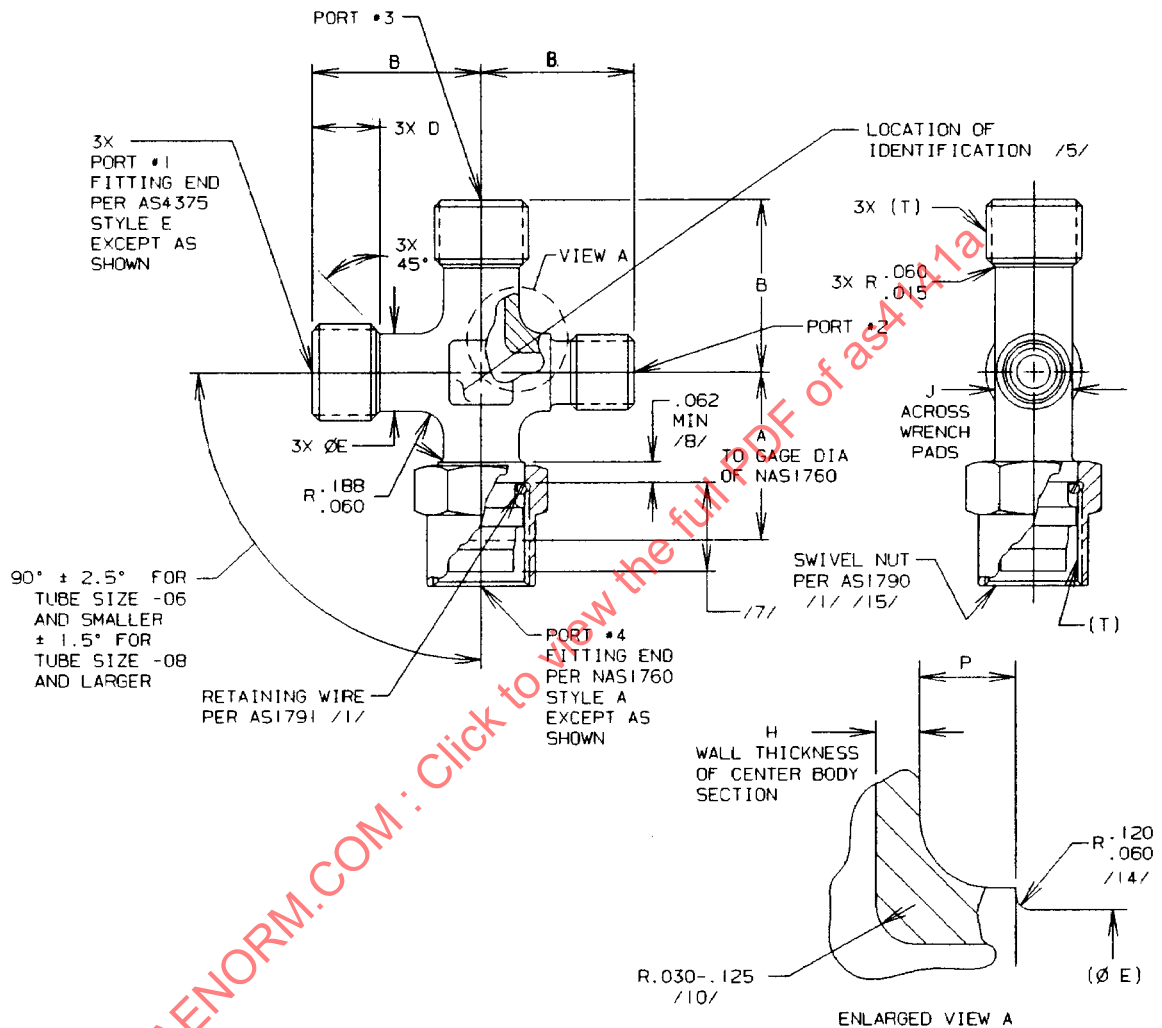
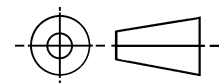


FIGURE 1 - CROSS, SWIVEL ON SIDE, REDUCED BODY, FLARELESS

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS18280

SAE Aerospace
An SAE International Group**AEROSPACE STANDARD**CROSS, SWIVEL ON SIDE,
REDUCED BODY, FLARELESS**AS4141**
SHEET 1 OF 5**REV.**
A

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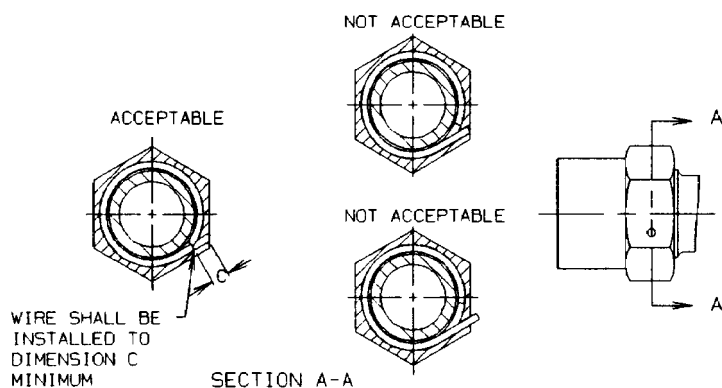


FIGURE 2 - INSTALLATION, SWIVEL NUT RETAINING WIRE

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS4141 /21/ SIZE CODE	H MIN	J	P ±.030	LB/EA MAX CRES	LB/EA MAX TI
04	.050	.390	.030	.088	.049
05	.050	.453	.159	.106	.059
06	.050	.453	.137	.138	.078
08	.050	.577	.140	.256	.144
10	.070	.702	.157	.396	.222
12	.080	.890	.166	.602	.338
16	.090	1.140	.174	.943	.529
20	.110	1.390	.071	1.402	.787
24	.130	1.640	---	1.928	1.082

TABLE 2 - FITTING END

SIZE CODE	TUBE OD	T THREAD PER AS8879 CLASS 3A	C /15/	D	E
04	.250	.4375-20UNJF	.045	.371	.350
05	.313	.5000-20UNJF	.045	.371	.412
06	.375	.5625-18UNJF	.055	.379	.453
08	.500	.7500-16UNJF	.063	.461	.577
10	.625	.8750-14UNJF	.063	.511	.702
12	.750	1.0625-12UNJ	.095	.556	.890
16	1.000	1.3125-12UNJ	.125	.556	1.140
20	1.250	1.6250-12UNJ	.155	.556	1.390
24	1.500	1.8750-12UNJ	.180	.556	1.640

FORGING									
SIZE	04	05	06	08	10	12	16	20	24
04	.745	---	---	---	---	---	---	---	---
05	.776	.828	---	---	---	---	---	---	---
06	.838	.890	.951	---	---	---	---	---	---
08	.932	.984	1.045	1.143	---	---	---	---	---
10	1.026	1.075	1.139	1.237	1.317	---	---	---	---
12	1.119	1.171	1.232	1.330	1.410	1.398	---	---	---
16	1.244	1.296	1.357	1.454	1.533	1.522	1.590	---	---
20	1.401	1.453	1.514	1.611	1.690	1.679	1.727	1.810	---
24	1.526	1.578	1.639	1.736	1.815	1.804	1.852	1.935	2.112

FORGING									
SIZE	04	05	06	08	10	12	16	20	24
04	.883	---	---	---	---	---	---	---	---
05	.799	.914	---	---	---	---	---	---	---
06	.861	.861	1.003	---	---	---	---	---	---
08	.955	.955	.971	1.204	---	---	---	---	---
10	1.049	1.049	1.065	1.158	1.380	---	---	---	---
12	1.142	1.142	1.158	1.251	1.314	1.560	---	---	---
16	1.267	1.267	1.283	1.376	1.439	1.502	1.684	---	---
20	1.424	1.424	1.440	1.533	1.596	1.659	1.659	1.903	---
24	1.549	1.549	1.565	1.658	1.721	1.784	1.784	1.784	2.028

/1/ MATERIAL :

- (1) BODY: TYPE 304 CORROSION RESISTANT STEEL PER AMS 5639
- (2) NUT: CODE LETTER J OF AS1790 (TYPE 304 CORROSION RESISTANT STEEL)
- (3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL)

- (1) BODY: TYPE 6AL4V TITANIUM ALLOY PER AMS 4928
(2) NUT: CODE LETTER T OF AS1790 (TYPE 6AL4V TITANIUM ALLOY)
(3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL)

- (1) BODY: TYPE 15-5PH CORROSION RESISTANT STEEL PER AMS 5659
(2) NUT: CODE LETTER V OF AS1790 (TYPE 15-5PH CORROSION RESISTANT STEEL)
(3) WIRE: PER AS1791 (CLASS 302 OR 305 CORROSION RESISTANT STEEL)

REV. A	NOTES (Continued):			
AS4141	2. HEAT TREATMENT: a. MATERIAL CODE LETTER J: (1) BODY, NUT AND WIRE: NONE b. MATERIAL CODE LETTER T: (1) BODY, NUT AND WIRE: NONE c. MATERIAL CODE LETTER V: (1) BODY: HEAT TREAT TO CONDITION H-1075 PER AMS 2759/3 (2) NUT: MATERIAL CODE LETTER V OF AS1790 (HEAT TREAT TO CONDITION H-1075) (3) WIRE: NONE /3/ FINISH: a. MATERIAL CODE LETTER J: (1) BODY: PASSIVATE PER AMS-QQ-P-35 TYPE VI OR TYPE VII AND COAT WITH DRY FILM LUBRICANT PER MIL-PRF-46010, TYPE I /7/ (2) NUT: CODE LETTER J SUFFIX CODE N OF AS1790 (PASSIVATE WITH DRY FILM LUBRICANT ON ID) (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT) b. MATERIAL CODE LETTER T: (1) BODY: FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 AND DRY FILM LUBRICANT PER MIL-PRF-46010 TYPE I /7/ (2) NUT: CODE LETTER T WITH SUFFIX CODE N OF AS1790 (FLUORIDE PHOSPHATE CONVERSION COAT AND DRY FILM LUBRICANT ON ID) (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT) c. MATERIAL CODE LETTER V: (1) BODY: (a) NO SUFFIX FINISH CODE LETTER: PASSIVATE PER AMS-QQ-P-35, TYPE II OR TYPE VIII AND DRY FILM LUBRICANT PER MIL-PRF-46010 TYPE I /7/ (b) SUFFIX FINISH CODE LETTER P; CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2 (2) NUT: (a) NO SUFFIX FINISH CODE LETTER; CODE LETTER V AND SUFFIX CODE N OF AS1790 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT ON ID) (b) SUFFIX FINISH CODE LETTER P; CODE LETTER V SUFFIX CODE LETTER P OF AS1790 (CADIUM PLATE) (3) WIRE: PER AS1791 (PASSIVATE AND COAT WITH DRY FILM LUBRICANT). /4/ USERS OF THIS STANDARD SHALL PROCURE THE DOCUMENT FROM ACCREDITED MANUFACTURERS OR ACCREDITED DISTRIBUTORS AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST PRI-QPL-AS18280 FOR THIS STANDARD. SEE http://www.pri.sae.org/QPL/as18280.pdf FOR CURRENT QPL ONLINE. NOTE THAT MANUFACTURERS ARE ACCREDITED BY PART NUMBER, SIZE AND MATERIALS ON PRI-QPL-AS18280. /5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B. a. FOR SIZES 06 (.375 OD TUBE SIZE) AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS", MATERIAL CODE LETTER AND FORGING MANUFACTURER'S IDENTIFICATION WHEN MADE FROM FORGING b. FOR SIZES 08 (.500 OD TUBE SIZE) AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER AND FORGING MANUFACTURER'S IDENTIFICATION WHEN MADE FROM FORGING			
SAE Aerospace An SAE International Group		AEROSPACE STANDARD CROSS, SWIVEL ON SIDE, REDUCED BODY, FLARELESS	AS4141 SHEET 4 OF 5	REV. A