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REV.
F

AS1895™/20

RATIONALE

FEDERAL SUPPLY CLASS
5340

FIGURE 1 REMOVE AS4108/3 EYE-BOLT CALLOUT. NUT - ADD AMS5737 AND SPECIFY PLATING AMS2410 OR AMS2411 OR DFL (NO SILVER). /7/ - ADD TENSILE STRENGTH AND QUALITY CONFORMANCE.

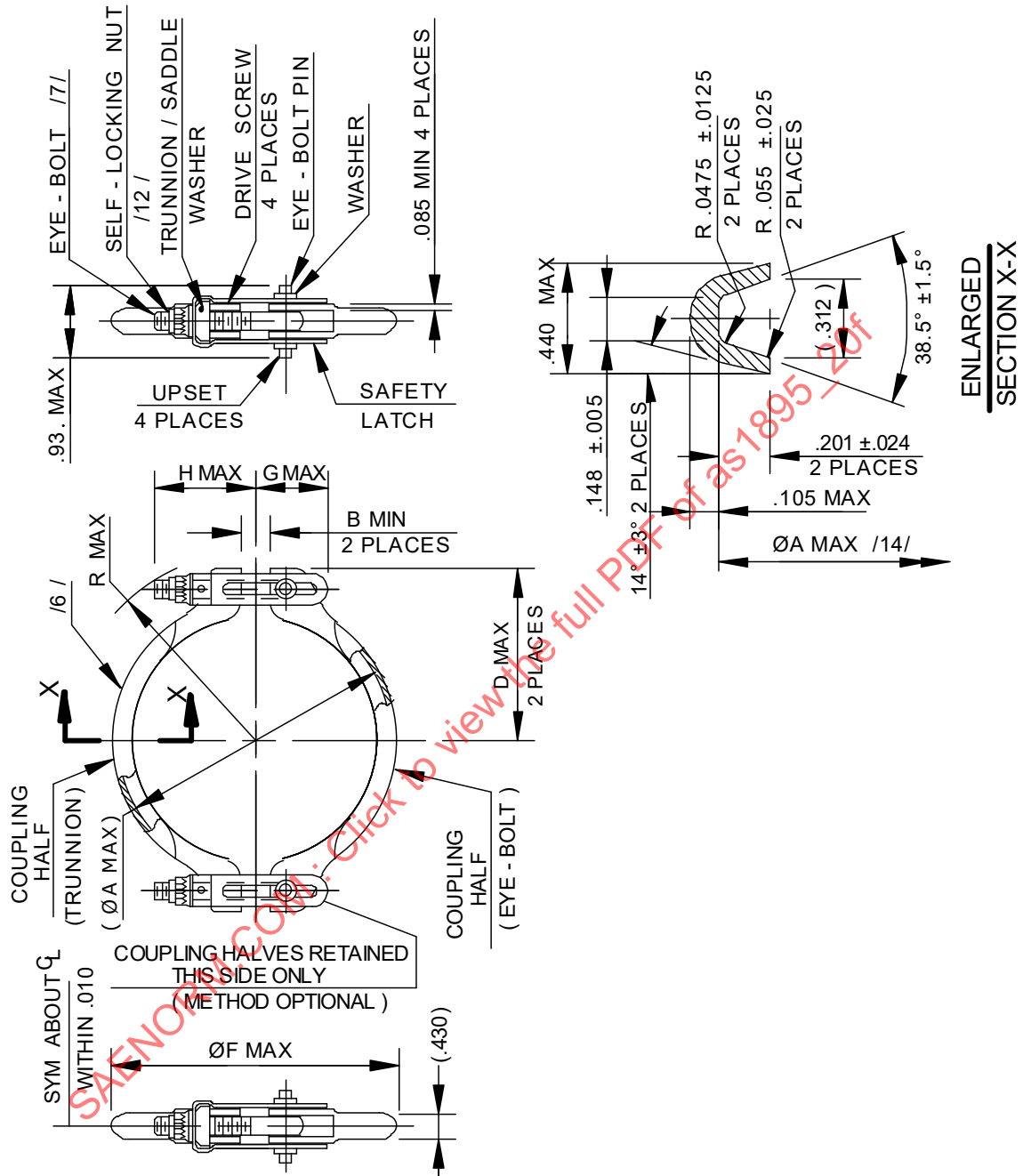
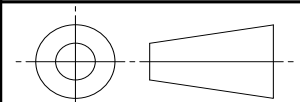


FIGURE 1 - LOW PROFILE COUPLING

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1895/20F>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: AS1895 /3/



AEROSPACE STANDARD

COUPLING, V-RETAINER, DOUBLE LATCH,
TYPE II LOW PROFILE

AS1895™/20
SHEET 1 OF 4

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TABLE 1 - DIMENSIONS, TORQUE, AND WEIGHTS

BASIC NUMBER AS1895/20 SIZE CODE /1/ /2/ /16/	(TUBE SIZE)	A	B	D	F	G	H	R	LB-IN TORQUE /6/	LB-EA MAX
400	4.00	4.600	.100	2.903	4.916	1.150	1.600	3.240	100-115	.50
450	4.50	5.100	.150	3.153	5.416	1.175	1.650	3.490	105-120	.56
500	5.00	5.600	.200	3.403	5.916	1.200	1.675	3.700	105-120	.61
550	5.50	6.100	.250	3.653	6.416	1.225	1.700	3.940	110-125	.65
600	6.00	6.600	.300	3.903	6.916	1.400	1.725	4.170	110-125	.69
650	6.50	7.100	.300	4.160	7.416	1.400	1.725	4.490	110-125	.74
700	7.00	7.600	.300	4.410	7.916	1.400	1.725	4.700	110-125	.78
750	7.50	8.100	.300	4.645	8.416	1.400	1.725	4.860	110-125	.82

NOTES:

/1/

TABLE 2 - COUPLING COMPONENT MATERIAL

PART	MATL	TYPE	SPEC	REMARKS
COUPLING HALVES	NICKEL ALLOY	718	AMS5662	SOLUTION AND PRECIPITATION HEAT TREATED. /2/
TRUNNION/ SADDLE WASHER	CRES	A286	AMS5731 AMS5732 AMS5734 AMS5737	SOLUTION AND PRECIPITATION HEAT TREATED OR EQUIVALENT MATERIAL PROPERTIES ACHIEVED BY COLD WORK.
	NICKEL ALLOY	713	AMS5377	INVESTMENT CASTING.
EYEBOLT	CRES	A286	AMS5731 AMS5732 AMS5737	/2/ AND /7/
SAFETY LATCH	NICKEL ALLOY	718	AMS5596	SOLUTION AND PRECIPITATION HEAT TREATED.
SELF-LOCKING NUT	CRES	A286	AMS5731 AMS5732 AMS5737	/2/ AND /7/
EYEBOLT PIN	CRES	A286	AMS5731 AMS5732	SOLUTION AND PRECIPITATION HEAT TREATED.
WASHER	CRES	303 OR 304	AMS5640 AMS5313	
HINGE PIN	CRES	A286	AMS5731 AMS5732 AMS5734 AMS5737	SOLUTION AND PRECIPITATION HEAT TREATED
DRIVE SCREW	CRES CRES CRES	302HQ 305 A286		
	NICKEL ALLOY	718		



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/2/ FINISH:

SELF-LOCKING NUT: THREADS BLANK = SILVER PLATED AMS2410 OR AMS2411 OR L = DRY FILM LUBED (NO SILVER PLATING).

COUPLING HALVES: NO FINISH REQUIRED. INSIDE SURFACE OF ALL COUPLING HALVES SHALL BE COATED WITH SOLID DRY FILM LUBRICANT PER AS1895.

EYEBOLT: LUBRICATE WITH ANTI-SEIZING COMPOUND. MAY USE "HEAVY DUTY ANTI-SEIZE" COMPOUND #LB 8009 FROM LOCTITE® (CAGE CODE 05972) OR EQUIVALENT.

/3/ QUALIFICATION:

PARTS SHALL BE QUALIFIED IN A COMPLETE COUPLING ASSEMBLY IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS1895. PROCUREMENT SPECIFICATION: AS1895, EXCEPT AS SPECIFIED IN 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-AS1895 FOR THIS STANDARD. SEE www.eAuditNet.com FOR CURRENT QPL ONLINE.

4. ACCEPTANCE TEST:

EACH COUPLING SHALL BE SUBJECT TO A HYDROSTATIC PROOF PRESSURE TEST PER AS1895.

5. INTERMATEABILITY:

THIS COUPLING, WHEN MATED WITH FLANGES, FLANGE ENDS, AND SEAL CONFORMING TO AS1895/5-XXX, AS1895/6-XXX, AS1895/7-XXX, AS1895/8-XXX, AS1895/9-XXX, AS1895/14-XXX, AS1895/15-XXX, AS1895/16-XXX, AS1895/17-XXX, AND AS1895/23 SHALL MEET ALL THE REQUIREMENTS OF SPECIFICATION AS1895.

/6/ MARKING:

ELECTROCHEMICAL ETCH PER AS478-7A2 OR LASER MARK PER AS478-15A2. THE COUPLING SHALL BE MARKED WITH THE FOLLOWING:

- a. AS1895/20 (FULL PART NUMBER)
- b. SUPPLIER PART NO.
- c. SUPPLIER NAME, TRADEMARK, OR CAGE CODE
- d. DATE OF MANUFACTURE
- e. TORQUE: "CAUTION: TORQUE TO (VALUE SHOWN IN TABLE 1) LB-IN"

/7/ THREADS:

- a. EYEBOLT AND NUT THREADS CONFORM TO AS8879
- b. EYEBOLT THREAD .3125-24 UNJF-3A
- c. SELF-LOCKING NUT THREAD .3125-24 UNJF-3B
- d. EYEBOLT ULTIMATE TENSILE STRENGTH 160 KSI MINIMUM
- e. EYEBOLT QUALITY CONFORMANCE IAW AS4108/3

8. OPERATING TEMPERATURE: -65 TO +1200 °F FLUID TEMPERATURE.

9. BREAK EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.

10. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1982.

11. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS .XXX = ± 0.010 , .XX = ± 0.03 , ANGULAR DIMENSIONS $\pm 5^\circ$.

/12/ INTENDED USE:

USE DRY FILM LUBRICATED NUTS AT NUT TEMPERATURES OF 1000 °F AND OVER.

/13/ THE FOOL PROOF SAFETY FEATURE RESULTS IN AN INCREASE OF OVERALL ENVELOPE DIM R MAX BY .020 INCH MAXIMUM AND IN A WEIGHT INCREASE OF .052 POUND MAXIMUM.

	AEROSPACE STANDARD	AS1895™/20 SHEET 3 OF 4	REV. F
	COUPLING, V-RETAINER, DOUBLE LATCH, TYPE II LOW PROFILE		