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REV. H
AS1895™/4

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.

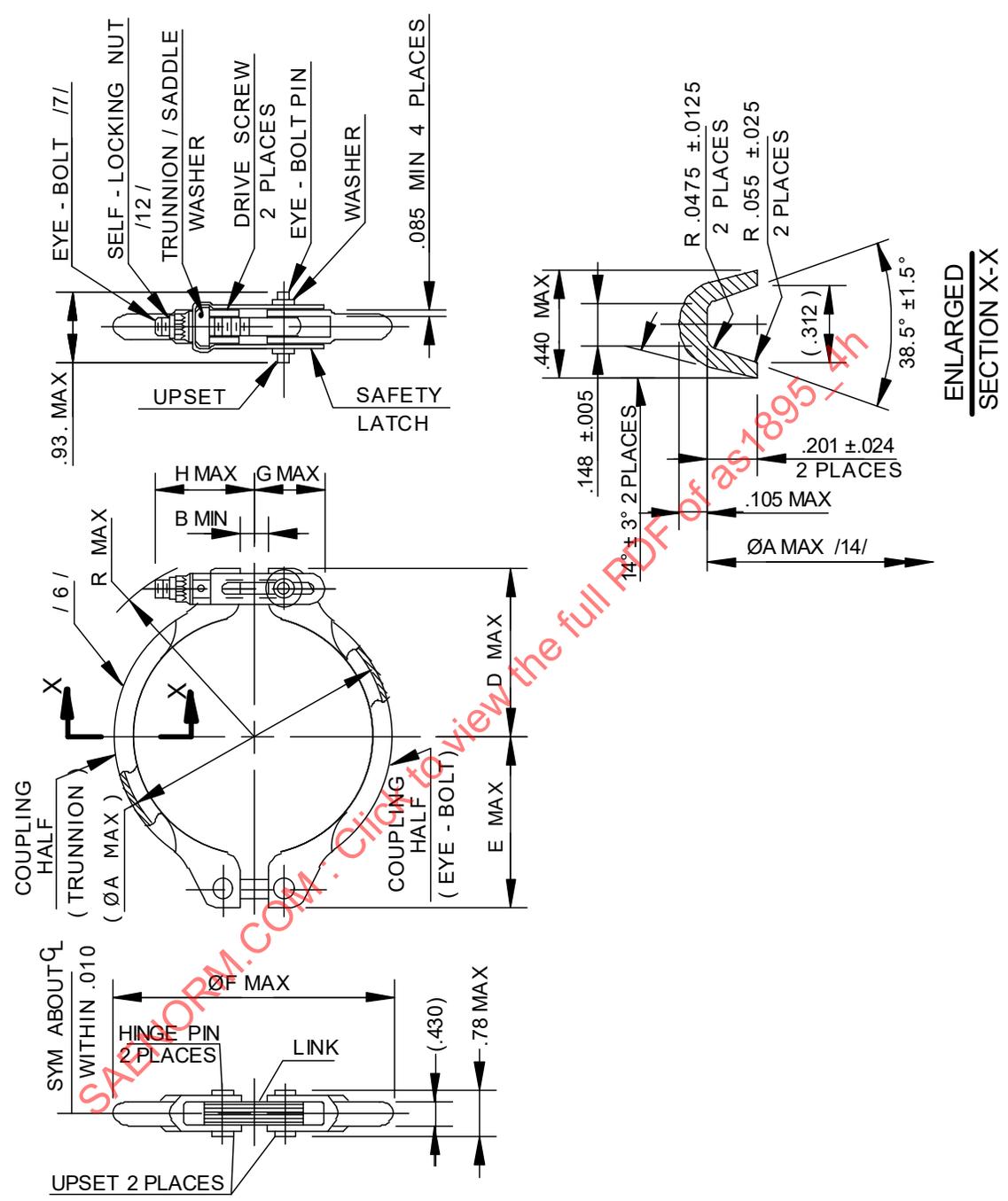
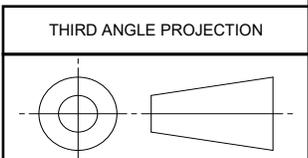


FIGURE 1 - LOW PROFILE COUPLING

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1895/4H>



CUSTODIAN: G-3/G-3A		PROCUREMENT SPECIFICATION: AS1895 /3/	
	AEROSPACE STANDARD		AS1895™/4 SHEET 1 OF 5
	COUPLING, V-RETAINER, SINGLE LATCH, TYPE II LOW PROFILE		

ISSUED 1985-12 REAFFIRMED 2015-01 REVISED 2024-01

TABLE 1 - DIMENSIONS, TORQUE, AND WEIGHTS

BASIC NUMBER AS1895/4 SIZE CODE /1/ /2/ /16/	(TUBE SIZE)	A	B	D	E	F	G	H	R	TORQUE IN LB-IN /6/	LB-EA MAX
100	1.00	1.600	.100	1.403	1.387	1.916	.840	1.410	1.860	55- 70	.34
125	1.25	1.850	.150	1.528	1.512	2.166	.850	1.410	2.020	55- 70	.34
150	1.50	2.100	.150	1.653	1.637	2.416	.850	1.410	2.110	55- 70	.35
175	1.75	2.350	.150	1.778	1.762	2.666	.875	1.425	2.220	55- 70	.36
200	2.00	2.600	.175	1.903	1.887	2.916	.900	1.450	2.330	70- 85	.38
225	2.25	2.850	.175	2.028	2.012	3.166	.925	1.475	2.440	75- 90	.39
250	2.50	3.100	.190	2.153	2.137	3.416	.925	1.475	2.550	75- 90	.40
275	2.75	3.350	.190	2.278	2.262	3.666	.950	1.525	2.700	75- 90	.42
300	3.00	3.600	.190	2.403	2.387	3.916	.950	1.550	2.800	85-100	.43
325	3.25	3.850	.210	2.528	2.512	4.166	1.100	1.575	2.920	90-105	.44
350	3.50	4.100	.210	2.653	2.637	4.416	1.125	1.600	3.030	95-110	.45
400	4.00	4.600	.100	2.903	2.887	4.916	1.385	1.700	3.240	100-115	.48
450	4.50	5.100	.150	3.153	3.137	5.416	1.445	1.750	3.490	105-120	.54
500	5.00	5.600	.200	3.403	3.387	5.916	1.470	1.775	3.700	105-120	.59
550	5.50	6.100	.250	3.653	3.637	6.416	1.495	1.800	3.940	110-125	.62
600	6.00	6.600	.300	3.903	3.887	6.916	1.670	1.825	4.170	110-125	.66
650	6.50	7.100	.300	4.153	4.137	7.416	1.670	1.850	4.400	110-125	.73
700	7.00	7.600	.300	4.403	4.387	7.916	1.670	1.850	4.630	110-125	.77
750	7.50	8.100	.300	4.653	4.637	8.416	1.670	1.850	4.860	110-125	.80

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NOTES:

/1/

TABLE 2 - COUPLING COMPONENT MATERIAL

PART	MATL	TYPE	SPEC	REMARKS
COUPLING HALVES	CRES	A286	AMS5525 AMS5732	A-286 MATERIAL IS USED FOR COUPLINGS SIZES 1.00 THRU 3.50 INCLUSIVE. SOLUTION AND PRECIPITATION HEAT TREATED. /2/
	NICKEL ALLOY	718	AMS5596 AMS5662	718 MATERIAL IS USED FOR COUPLING SIZES 4.00 AND OVER. /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 AMS5513	
LINK	CRES	A286	AMS5731 AMS5732 AMS5525	SOLUTION HEAT TREATED OR SOLUTION AND PRECIPITATION HEAT TREATED.
HINGE PIN	CRES	A286	AMS5731 AMS5732 AMS5734 AMS5737	SOLUTION AND PRECIPITATION HEAT TREATED.
DRIVE SCREW	CRES	302HQ		
	CRES	305		
	CRES	A286		
	NICKEL ALLOY	718		

/2/ FINISH:

- a. SELF-LOCKING NUT: DASH = SILVER PLATED AMS2410 OR AMS2411 OR L = DRY FILM LUBED (NO SILVER PLATING).
- b. COUPLING HALVES:
 - CRES A286 COUPLING HALVES: PASSIVATE PER AMS2700 TYPE 1, TYPE 2, TYPE 3, OR TYPE 8, MECHANICAL POLISH OR ELECTRO-POLISH TO REMOVE IRON PARTICLES. INSIDE SURFACE OF COUPLING HALVES SHALL BE COATED WITH SOLID DRY FILM LUBRICANT PER AS1895.
 - NICKEL ALLOY 718 COUPLING HALVES: NO FINISH REQUIRED. INSIDE SURFACE OF COUPLING HALVES SHALL BE COATED WITH SOLID DRY FILM LUBRICANT PER AS1895.
- c. EYEBOLT: LUBRICATE WITH ANTI-SEIZING COMPOUND. MAY USE "HEAVY DUTY ANTI-SEIZE" COMPOUND #LB 8009 FROM LOCTITE® (CAGE CODE 05972) OR EQUIVALENT.

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/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) 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, AND 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 THE REQUIREMENTS OF SPECIFICATION AS1895.

/6/ MARKING:

BY ELECTROMECHANICAL ETCHING PER AS478-7A2 OR LASER MARKING PER AS478-15A2. THE COUPLING SHALL BE MARKED WITH THE FOLLOWING:

- a. AS1895/4 (FULL PART NUMBER)
- b. SUPPLIER PART NUMBER
- 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 .3125-24UNJF-3A
- c. SELF-LOCKING NUT THREAD .3125-24UNJF-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 ±.010, .XX = ±.03, ANGULAR DIMENSIONS ±.5°.

/12/ INTENDED USE:

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

/13/ THE FOOLPROOF SAFETY FEATURE RESULTS IN AN INCREASE OF OVERALL ENVELOPE DIMENSION R MAX BY .020 INCH MAXIMUM AND IN A WEIGHT INCREASE OF .026 POUND MAXIMUM.

/14/ DIAMETER A MAXIMUM FOR MACHINING PURPOSES ONLY, TO BE INSPECTED DURING MACHINING OPERATION.

15. REVISION INDICATOR: A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

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