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REV. G
AS1895™/20

RATIONALE

FEDERAL SUPPLY CLASS
5340

INTRODUCE OPTIONAL MARKING CODE FOR IMPROVED LEGIBILITY. REPLACE NOTE /12/ WHICH CURRENTLY SPECIFIES TO USE DRY FILM LUBRICANT ON NUTS WHERE THEIR ENVIRONMENT WOULD BE ABOVE 1000 °F BY THE NOTE TO ADD CODE LETTER "L" WHEN NUTS REQUIRE DFL. REASON: CURRENTLY, BOTH SILVER PLATED AND DFL NUTS ALREADY MEET THE 1200 °F TEMPERATURE REQUIREMENT OF THE PROCUREMENT SPECIFICATION, AS1895.

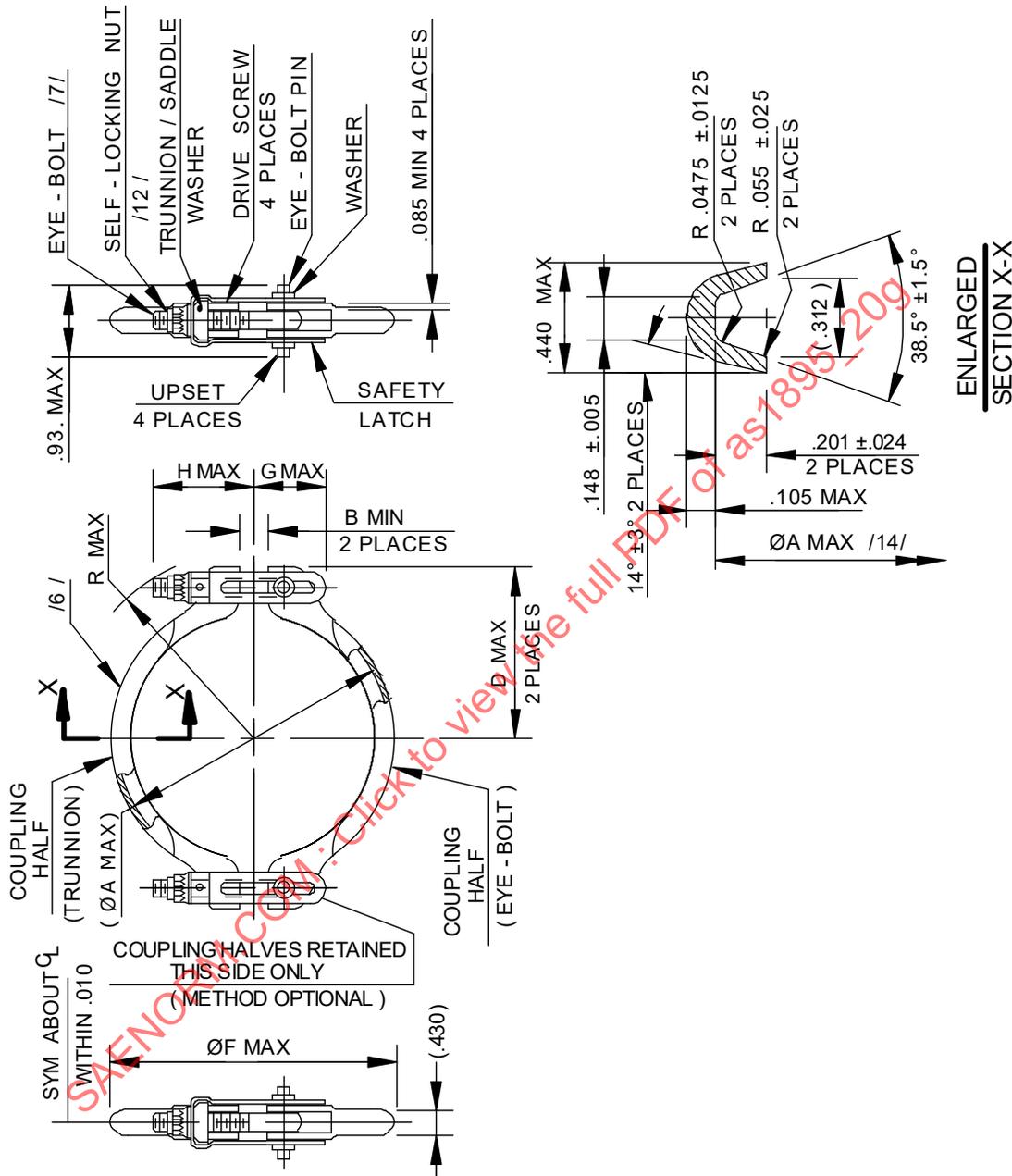
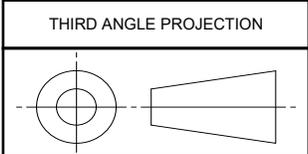


FIGURE 1 - LOW PROFILE COUPLING

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1985/20G>



CUSTODIAN: G-3/G-3A		PROCUREMENT SPECIFICATION: AS1895 /3/	
	AEROSPACE STANDARD		AS1895™/20 SHEET 1 OF 4
	COUPLING, V-RETAINER, DOUBLE LATCH, TYPE II LOW PROFILE		

ISSUED 1992-06 REAFFIRMED 2013-01 REVISED 2024-08

TABLE 1 - DIMENSIONS, TORQUE, AND WEIGHTS

BASIC NUMBER AS1895/20 SIZE CODE	(TUBE SIZE)	A	B	D	F	G	H	R	LB-IN TORQUE	LB/EA MAX
									/6/	
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		

/2/ FINISH:

- a. SELF-LOCKING NUT: THREADS BLANK = SILVER PLATED AMS2410 OR AMS2411 OR L = DRY FILM LUBED (NO SILVER PLATING).
- b. COUPLING HALVES: NO FINISH REQUIRED. INSIDE SURFACE OF ALL 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.

/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 ETCHING PER AS478-7A2 OR LASER MARKING PER AS478-15A2 OR 15B2. THE COUPLING SHALL BE MARKED AS FOLLOWS:

- 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 = ±.010, .XX = ±.03, ANGULAR DIMENSIONS ±0°30'.

/12/ ADD LETTER "L" IN PART NUMBER WHEN DRY FILM LUBRICATION PER AS1895 IS REQUIRED ON SELF-LOCKING NUT. /16/

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

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

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