RATIONALE

AS1895/1D HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

REV.

SAE AS1895/1

/ SADDLE $.045 \pm .015$ ⋛ ⋛ SELF-LOCKING **V**2//16/ AS4108/3 550 MAX .005 .91 MAX SAFETY LATCH UPSET .235 ± .250, 2 PLACES 3.5° ± 2.5° XAM H XAM 0 ¥ XAM OSI œ XAM A Q 9 D MAX REAFFIRMED 2013-01 COUPLING HALF (EYE-80LT) (TRUNNION) E MAX Ø A WAX **REVISED 1996-05** (XAM T Q) 010. WIH. S PLACES HINCE BIN 78 UPSET, 2 PLACES 1985-(R) FIGURE 1 - STANDARD PROFILE COUPLING SSUED THIRD ANGLE PROJECTION SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/AS1895/1D CUSTODIAN: G-3/G-3A PROCUREMENT SPECIFICATION: /3/ AS1895 **AEROSPACE STANDARD SAE** AS1895/1 Aerospace REV. COUPLING, V-RETAINER, SINGLE LATCH,

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions. SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

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TYPE I STANDARD PROFILE

D

SHEET 1 OF 4

BASIC NUMBER										
AS1895/1										
SIZE CODE	(TUBE									LB/EA
/1/ /2/ /17/	SIZE)	Α	В	D	E	F	G	н	R	MAX
150	1.50	2.385	.100	1.843	1.780	2.656	.968	1.410	2.126	.40
175	1.75	2.635	.150	1.880	1.857	2.906	.875	1.425	2.250	.41
200	2.00	2.885	.175	2.093	2.030	3.156	.898	1.450	2.360	.42
225	2.25	3.135	.175	2.130	2.107	3.406	.898	1.450	2.485	.44
250	2.50	3.385	.190	2.343	2.280	3.656	.925	1.475	2.569	.46
275	2.75	3.635	.190	2.468	2.410	3.906	.984	1.525	2.700	.49
300	3.00	3.885	.190	2.593	2.530	4.156	1.000	1.550	2.824	.51
325	3.25	4.135	.190	2.630	2.607	4.406	1.024	1.575	2.950	.54
350	3.50	4.385	.190	2.755	2.780	4.656	1.059	1.550	3.058	.57
								O _C	2	
400	4.00	4.885	.250	3.015	2.972	5.156	1.024	1.575	3.263	.63
450	4.50	5.385	.250	3.265	3.222	5.656	1.109	600	3.519	.67
500	5.00	5.885	.300	3.520	3.467	6.156	1.074	1.625	3.732	.72
							6			
550	5.50	6.385	.300	3.765	3.722	6.656	1,149	1.650	3.970	.77
600	6.00	6.885	.400	4.015	3.972	7.156	1.400	1.675	4.208	.81
650	6.50	7.385	.400	4.265	4.222	7.656	1.400	1.675	4.468	.86
						XO				
700	7.00	7.885	.450	4.515	4.477	8.156	1.400	1.675	4.724	.93
750	7.50	8.385	.450	4.765	4.732	8.656	1.400	1.800	4.973	.98

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(R) TABLE 2 - COUPLING COMPONENT MATERIAL

PART	MATL	TYPE	SPEC	REMARKS
COUPLING HALVES	CRES	A-286	AMS 5525	SOLUTION AND PRECIPITATION
			AMS 5732	HEAT TREATED. SEE /2/.
	NICKEL	718	AMS 5596	
	ALLOY		AMS 5662	
TRUNNION/	CRES	A-286	AMS 5731	SOLUTION AND PRECIPITATION
SADDLE WASHER			AMS 5732	HEAT TREATED OR EQUIVALENT
			AMS 5734	MATERIAL PROPERTIES ACHIEVED
			AMS 5737	BY COLD WORK.
	NICKEL ALLOY	713	AMS 5377	
EYEBOLT	CRES	A-286	AMS 5731	SEE /2/ AND /7/.
			AMS 5732	
			AMS 5737	05/
SAFETY LATCH	NICKEL	718	AMS 5596	SOLUTION AND PRECIPITATION
	ALLOY			HEAT TREATED.
SELF-LOCKING	CRES	A-286	AMS 5731	SEE /2/ AND /7/.
NUT			AMS 5732	Opt
EYEBOLT PIN	CRES	A-286	AMS 5731	SOLUTION AND PRECIPITATION
			AMS 5782	HEAT TREATED.
WASHER	CRES	303 OR 304	AMS 5640	
			AMS 5513	
LINK	CRES	A-286	AMS 5731	SOLUTION HEAT TREATED OR
		×O	AMS 5732	SOLUTION AND PRECIPITATION
		i ch	AMS 5525	HEAT TREATED.
HINGE PIN	CRES (A-286	AMS 5731	SOLUTION AND PRECIPITATION
			AMS 5732	HEAT TREATED.
	N		AMS 5734	
	$\mathcal{O}_{\mathcal{O}}$		AMS 5737	
DRIVE SCREW	CRES	302HQ		
OK.	CRES	305		
70.	CRES	A-286		
	NICKEL	718		
	ALLOY			

/2/ FINISH:

- (R) a. SELF-LOCKING NUT: BLANK = SILVER PLATED OR L = DRY FILM LUBED.
 - b. COUPLING HALVES: INSIDE SURFACE OF ALL COUPLING HALVES SHALL BE COATED WITH SOLID DRY FILM LUBRICANT PER AS1895 AFTER PASSIVATION. A-286 CRES MATERIAL - PASSIVATE PER QQ-P-35 TYPES I, II, III, OR VIII AND/OR MECHANICAL POLISH OR ELECTROPOLISH TO REMOVE IRON PARTICLES.
 - c. 718 MATERIAL: NO FINISH REQUIRED. NOTE: THE OUTSIDES OF 718 COUPLING FLANKS SHALL HAVE LAY LINE MARKINGS WITH "—1000F—" (SEE AS1895).
 - d. EYEBOLT: LUBRICATE WITH FEL-PRO C102, FEL-PRO C-200 (FEL-PRO INC CAGE CODE 73165) OR EQUIVALENT.

SAE Aerospace An SAE International Group	AEROSPACE STANDARD	OAF A C4 90 E /4	REV. D
	COUPLING, V-RETAINER, SINGLE LATCH, TYPE I STANDARD PROFILE	SAE AS1895/1 SHEET 3 OF 4	

NOTES (CONTINUED):

- /3/ QUALIFICATION: PARTS SHALL BE QUALIFIED IN A COMPLETE COUPLING ASSEMBLY IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS1895. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.
- 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 SEALS CONFORMING
- (R) TO AS1895/2-XXX, AS1895/3-XXX, AS1895/7-XXX, AS1895/10-XXX, AS1895/11-XXX, AS1895/12-XXX, AS1895/13-XXX, AS1895/18-XXX, AS1895/19-XXX, AND AS1895/23-XXX SHALL MEET ALL THE REQUIREMENTS OF SPECIFICATIONS AS1895
- /6/ MARKING: BY ELECTROCHEMICAL ETCHING PER AS478-7A2 OR LASER MARKING PER AS478-15A2. THE
- (R) COUPLING SHALL BE MARKED AS FOLLOWS:
 - a. AS1895/1
 - b. SUPPLIER PART NO.
 - SUPPLIER NAME OR TRADEMARK AND CAGE CODE
 - d. DATE OF MANUFACTURE
 - e. TORQUE "CAUTION: TORQUE TO 120 ± 5 lb-in" /12/
- /7/ THREADS:
 - a. EYEBOLT AND NUT THREADS CONFORM TO MIL-S-8879
 - b. EYEBOLT THREAD .3125-24UNJF-3A
 - c. SELF-LOCKING NUT THREAD .3125-24UNJF-3B
- 8. OPERATING TEMPERATURE: -65 TO +1200 °F FLUID TEMPERATURE.
- 9. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
- 10. DIMENSIONING AND TOLERANCING: ANSI Y14.5M 1982
- 11. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS .XXX = ±.010, .XX = ±.03, ANGULAR DIMENSIONS ±0.5°.
- /12/ TORQUE COUPLING INSTALLATION TORQUE = 120 ± 5 lb-in.
- /13/ THE FOOL PROOF SAFETY FEATURE RESULTS IN AN INCREASE OF R MAX BY .020 in MAX, AND IN A WEIGHT INCREASE OF .026 Ib MAX.
- /14/ DIA A MAX IS FOR MACHINING PURPOSES ONLY, TO BE INSPECTED DURING MACHINING OPERATION.
- 15. THE (R) 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 STANDARD.
- /16/ INTENDED USE: USE SOLID FILM LUBRICATED NUTS AT NUT TEMPERATURES OF 1000 °F AND OVER.

(R)

BLANK = NO FOOL PROOF FEATURE
S = FOOL PROOF SAFETY LATCH
T = FOOL PROOF SAFETY LATCH WITH TAB /13/

TUBE SIZE (2.50 in)

SELF-LOCKING NUT FINISH /2/
(BLANK) = SILVER PLATE
L = DRY FILM LUBRICANT /15/

COUPLING HALF MATERIAL CODE /1/
- = A-286 CRES PER AMS 5732

NOTE: AS1895/1-250 IS SAME SIZE COUPLING AS ABOVE, WITH A-286 COUPLING HALVES, A SILVER PLATED NONLUBRICATED NUT, AND WITHOUT FOOL PROOF FEATURE.

E = NICKEL ALLOY 718 PER AMS 5662

BASIC PART NUMBER