FEDERAL SUPPLY CLASS
5340

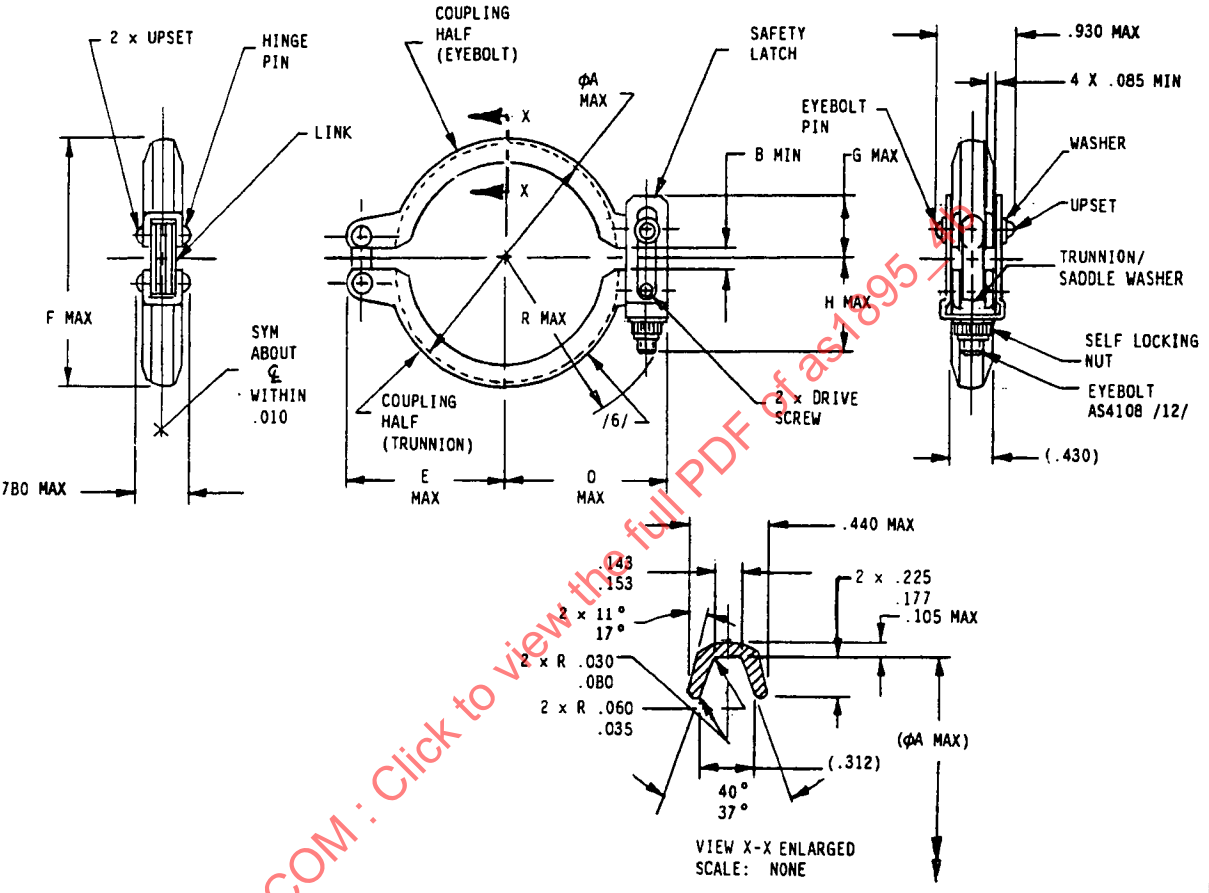


FIGURE 1 - LOW PROFILE COUPLING

ISSUED 1985-12 REVISED 1992-06-01 (B)

CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: /3/ AS1895

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive. Warrendale. PA 15096-0001

AEROSPACE STANDARD

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

AS1895/4 REV. B

SHEET 1 OF 4

Printed in the U.S.A.
90-1001A/EG

TABLE 1 - DIMENSIONS, TORQUE, AND WEIGHTS

BASIC NUMBER AS1895/4 SIZE CODE /1/ /2/ /13/	TUBE SIZE	ϕA	B	D	E	F	G	H	R	TORQUE IN LB-IN /6/	MAX WT LB
100	1.00	1.600	.150	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	.300	2.528	2.512	4.166	1.100	1.575	2.920	90-105	.44
350	3.50	4.100	.350	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 /12/	6.00	6.600	.300	3.903	3.887	6.916	1.670	1.825	4.170	110-125	.66

NOTES:

/1/

TABLE 2 - COUPLING COMPONENT MATERIAL /1/

PART	MATL	TYPE	SPEC	REMARKS
COUPLING HALVES	CRES	A286	AMS 5525 AMS 5732	A2B6 MATERIAL IS USED FOR COUPLINGS 1.00 THRU 3.50.
	NICKEL ALLOY	718	AMS 5596 AMS 5662	SOLUTION AND PRECIPITATION HEAT TREATED. SEE /2/. 718 MATERIAL IS USED FOR COUPLINGS OVER 4.00.
TRUNNION/ SADDLE WASHER	CRES	A286	AMS 5732 AMS 5737	
	NICKEL ALLOY	713	AMS 5377	
EYEBOLT	CRES	A286	AMS 5731 AMS 5732 AMS 5737	SEE /2/ AND /7/.
SAFETY LATCH	NICKEL ALLOY	718	AMS 5596	SOLUTION AND PRECIPITATION HEAT TREATED.
SELF-LOCKING NUT	CRES	A286	AMS 5731 AMS 5732	SEE /2/ AND /7/.
EYEBOLT PIN	CRES	A286	AMS 5731 AMS 5732	SOLUTION AND PRECIPITATION HEAT TREATED.
WASHER	CRES	303 OR 304	AMS 5640 AMS 5513	
LINK	CRES	A286	AMS 5731 AMS 5732 AMS 5525	SOLUTION HEAT TREATED OR SOLUTION AND PRECIPITATION HEAT TREATED.
HINGE PIN	**CRES**	**A286**	**AMS 5731 AMS 5732 AMS 5734 AMS 5737**	**SOLUTION AND PRECIPITATION HEAT TREATED.**
DRIVE SCREW	**CRES CRES NICKEL ALLOY**	**305 A286 718**		

/2/ FINISH:
a. SELF-LOCKING NUT: THREADS 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
d. EYEBOLT: LUBRICATE WITH FEL-PRO C100, FEL-PRD C-200 (FEL-PRO INC CAGE CODE 73165) OR EQUIVALENT

/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.

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, AS1B95/9-XXX, AS1895/14-XXX, AS1895/15-XXX, AS1895/16-XXX, AND AS1895/17-XXX SHALL MEET THE REQUIREMENTS OF SPECIFICATION AS1895.

NOTES (CONTINUED):

/6/ MARKING:
ELECTRODETCH AS1895/4 PART NUMBER
SUPPLIER PART NO.
SUPPLIER NAME OR TRADEMARK AND CAGE CODE
DATE OF MANUFACTURE
TORQUE - "CAUTION: TORQUE TO TABULATED lb-in" PER AS478 CLASS D

7. THREADS:
EYEBOLT AND NUT THREADS CONFORM TO MIL-S-8879 REV. A AND AS41D8/3
EYEBOLT THREAD .3125-24UNJF-3A
SELF-LOCKING NUT THREAD .3125-24UNJF-3B

8. OPERATING TEMPERATURE: -65 TO +12DO °F FLUID TEMPERATURE

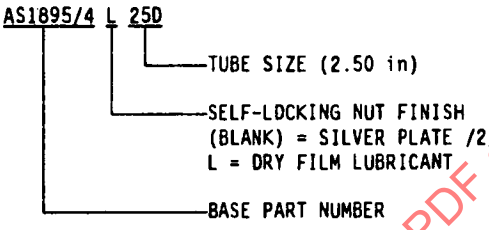
9. BREAK EDGES .DD3 TO .D15 UNLESS OTHERWISE SPECIFIED.

10. DIMENSIONING AND TOLERANCING: ANSI Y14.5M.

11. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS .XXX = ±.D1D, .XX = ±.D3, ANGULAR DIMENSIONS ±.5°.

/12/ INTENDED USE: THE 6.DO SIZE SAFETY LATCH MAY NOT MAINTAIN JOINT INTEGRITY IN THE EVENT OF BOLT FAILURE. USE AS1895/2D.

/13/ EXAMPLE PART NUMBER:



FEDERAL SUPPLY CLASS
5340

NOTES:

1. Construction and Performance:

This coupling, when mated with flange ends, flanges and seal conforming to AS1895/5-XXX, AS1895/6-XXX, AS1895/7-XXX, AS1895/8-XXX, AS1895/9-XXX, AS1895/14-XXX and AS1895/15-XXX shall meet all the requirements of specification AS1895.

2. Material:

Coupling halves - A-286 Cres per AMS 5732
Trunnion - A-286 Cres per AMS 5732
Eyebolt - A-286 Cres per AMS 5732
Safety latch - Inconel alloy 718 per AMS 5596
Lock nut - A-286 Cres per AMS 5731 or AMS 5732
Eyebolt pin - A-286 Cres per AMS 5731 or AMS 5732
Washer - Cres
Link - A-286 Cres per AMS 5525
Hinge pin - A-286 Cres per AMS 5731 or AMS 5732
Drive stud - 18-8 Cres

3. Finish:

Nut - Threads silver plated
Coupling halves - Inside surface of coupling half shall be coated with solid dry film lubricant. All other Cres parts to be passivated per QQ-P-35.
Eyebolt - Dry film lubricate per FEL-PRO C-200.

4. Tolerances: .XXX = ±.010, .XX = ±.03, angles = ±1/2°.

5. Electro Etch AS1895/4 Part Number
Supplier Part No. _____
Supplier Name or Trademark and FSCM No. _____
Date of Manufacture
Torque - "Caution Torque to (tabulated) inch-lbs."

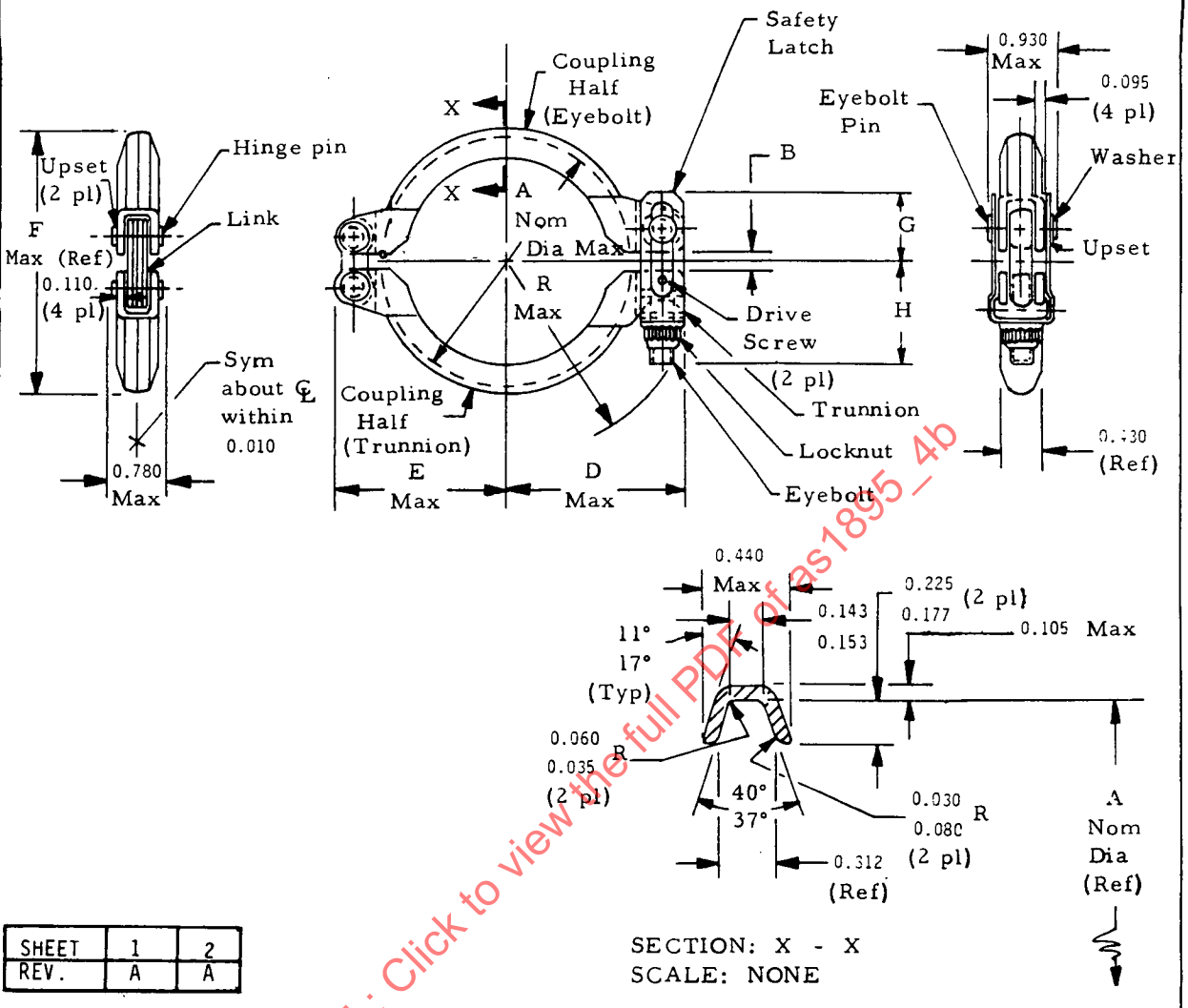
6. Threads: Eyebolt and nut threads conform to MIL-S-8879
Eyebolt thread .3125-24UNJF-3A
Nut thread .3125-24UNJF-3B

7. Operating Temperature -65°F to +1200°F.

8. Each coupling shall be subjected to a hydrostatic proof pressure test per AS1895.

ISSUED 12-85 REVISED

FEDERAL SUPPLY CLASS
5340



SECTION: X - X
SCALE: NONE

SHEET	1	2
REV.	A	A

PART NUMBER	NOM TUBE SIZE	A NOM DIA MAX	B MIN	O MAX	E MAX	F MAX (Ref)	G MAX	H MAX	R MAX	MAX WT (LBS)	TORQUE IN IN-LBS
AS1895/4-100	1.00	1.600	0.150	1.403	1.387	1.916	0.840	1.410	1.860	0.32	75-90
AS1895/4-125	1.25	1.850	0.150	1.528	1.512	2.166	0.850	1.410	2.020	0.33	75-90
AS1895/4-150	1.50	2.100	0.150	1.653	1.637	2.416	0.850	1.410	2.110	0.33	75-90
AS1895/4-175	1.75	2.334	0.150	1.778	1.762	2.666	0.875	1.425	2.220	0.34	75-90
AS1895/4-200	2.00	2.600	0.175	1.903	1.887	2.916	0.900	1.450	2.330	0.34	75-90
AS1895/4-225	2.25	2.834	0.175	2.028	2.012	3.166	0.925	1.475	2.440	0.37	75-90
AS1895/4-250	2.50	3.100	0.190	2.153	2.137	3.416	0.925	1.475	2.550	0.37	75-90
AS1895/4-275	2.75	3.350	0.190	2.278	2.262	3.666	0.950	1.525	2.700	0.40	75-90
AS1895/4-300	3.00	3.600	0.190	2.403	2.387	3.916	0.950	1.550	2.800	0.42	85-100
AS1895/4-325	3.25	3.834	0.300	2.528	2.512	4.166	1.100	1.575	2.920	0.41	90-105
AS1895/4-350	3.50	4.100	0.350	2.653	2.637	4.416	1.125	1.600	3.030	0.42	95-110
AS1895/4-400	4.00	4.600	0.100	2.903	2.887	4.916	1.385	1.700	3.240	0.45	100-115
AS1895/4-450	4.50	5.100	0.150	3.153	3.137	5.416	1.445	1.750	3.490	0.50	105-120
AS1895/4-500	5.00	5.600	0.200	3.403	3.387	5.916	1.470	1.775	3.700	0.55	105-120
AS1895/4-550	5.50	6.100	0.250	3.653	3.637	6.416	1.495	1.800	3.940	0.59	110-125
AS1895/4-600	6.00	6.600	0.300	3.903	3.887	6.916	1.670	1.825	4.170	0.63	110-125

ISSUED 12-85 REVISED (A) 2-88

CUSTODIAN: SAE G-3/G-3A PROCUREMENT SPECIFICATION AS1895

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
400 Commonwealth Drive
Warrendale, PA 15096

AEROSPACE STANDARD

COUPLING, TYPE II
(LOW PROFILE)

AS1895/4

SHEET 1 OF 2

FEDERAL SUPPLY CLASS
5340

NOTES:

1. Construction and Performance:

   This coupling, when mated with flange ends, flanges and seal conforming to AS1985/5-XXX, AS1895/6-XXX, AS1895/7-XXX, AS1895/8-XXX, AS1895/9-XXX, AS1895/14-XXX and AS1895/15-XXX shall meet all the requirements of specification AS1895.

2. Material:

   Coupling halves - (1.00 to 3.50 Nom Tube Size) A-286 Cres per AMS 5732
   Nickel Alloy - 718 per AMS 5662 (4.00 to 6.00 nom tube size) to be solution and precipitation heat treated.
   Trunnion - A-286 Cres per AMS 5732
   Eyebolt - A-286 Cres per AMS 5732
   Safety latch - Nickel alloy 718 per AMS 5596
   Lock nut - A-286 Cres per AMS 5731 or AMS 5732
   Eyebolt pin - A-286 Cres per AMS 5731 or AMS 5732
   Wasner - Cres
   Link - A-286 Cres per AMS 5525
   Hinge pin - A-286 Cres per AMS 5731 or AMS 5732

3. Finish:

   Nut - Threads silver plated
   Coupling halves - Inside surface of coupling half shall be coated with solid dry film lubricant. All other Cres parts to be passivated per QQ-P-35.
   Eyebolt - Dry film lubricate per FEL-PRO C-200.

4. Tolerances: .XXX = ± 0.010, .XX = ± 0.03, angles = ± 1/2°.

5. Electro Etch AS1895/4 Part Number
   Supplier Part No._____
   Supplier Name or Trademark and CAGE No._____
   Date of Manufacture
   Torque - "Caution Torque to (tablulated) inch-lb."

6. Threads:

   Eyebolt and nut threads conform to MIL-S-8879
   Eyebolt thread 0.3125-24UNJF-3A
   Nut thread 0.3125-24UNJF-3B

7. Operating Temperature -65°F to +1200°F.

8. Each coupling shall be subjected to a hydrostatic proof pressure test per AS1895.

9. 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.

ISSUED 12-85 REVISED (A) 2-88

FEDERAL SUPPLY CLASS
5340

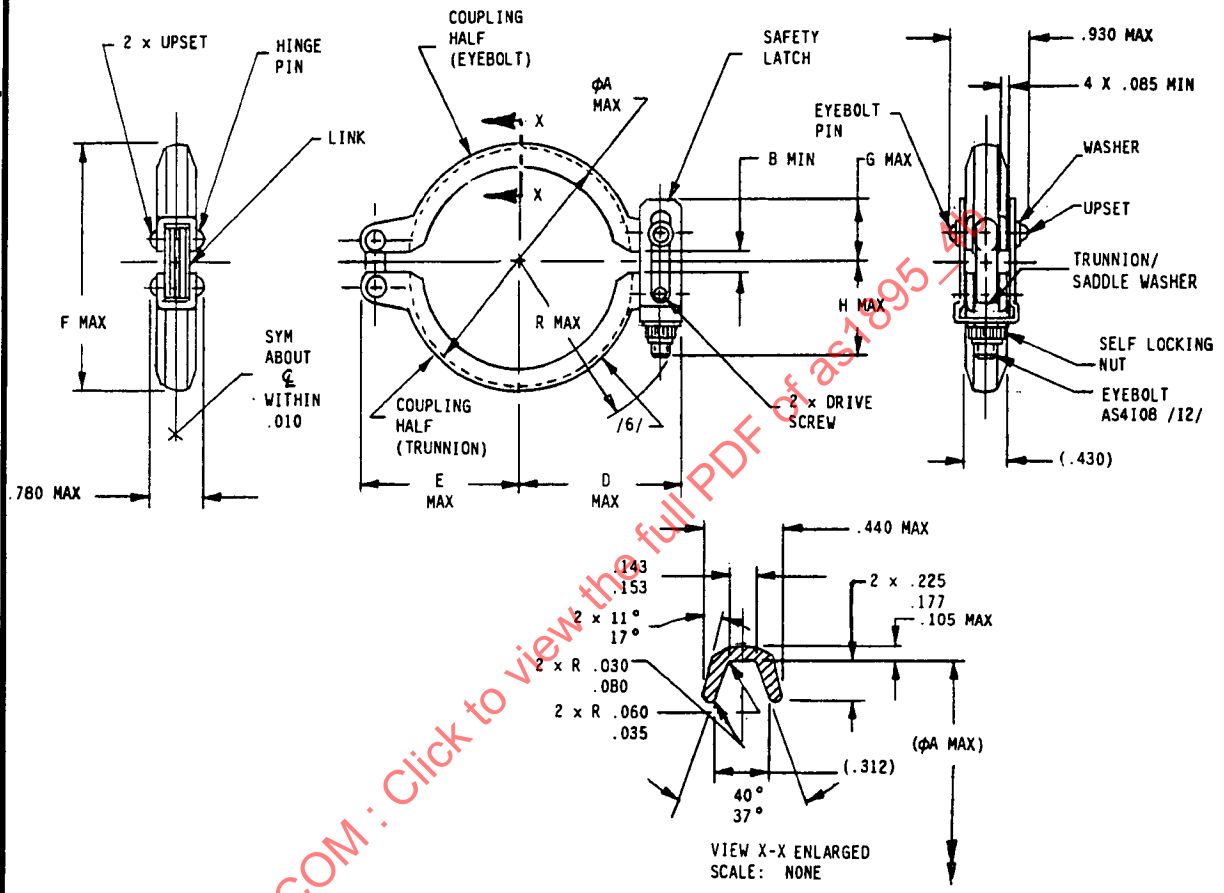


FIGURE 1 - LOW PROFILE COUPLING

ISSUED 1985-12 REVISED 1992-06-01 (B)

CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: /3/ AS1895

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AEROSPACE STANDARD

COUPLING, V-RETAINER,
SINGLE LATCH, TYPE II
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