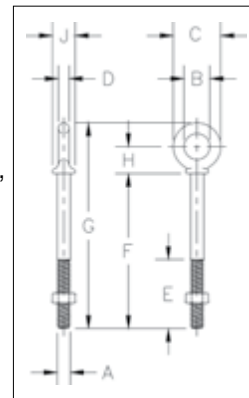


## G-277



- Forged steel, Quenched & Tempered.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Working Load Limits shown are for in-line pull. For angle loading, see applications and warning section.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these bolts meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- All bolts hot-dip galvanized after threading (UNC).
- Furnished with standard hot-dip galvanized, heavy hex nuts.



### G-277 Shoulder Nut Eye Bolts

Shank Diameter & Length (in)	Stock No.	Working Load Limit (lb)	Weight Each (lb)	Dimensions (in)									
				A	B	C	D	E	F	G	H	J	
5/16 x 2-1/4	1045050	1200	0.13	.31	.62	1.12	.25	1.50	2.25	3.50	.69	.56	
5/16 x 4-1/4	1045078	1200	0.19	.31	.62	1.12	.25	2.50	4.25	5.50	.69	.56	
3/8 x 2-1/2	1045096	1550	0.21	.38	.75	1.38	.31	1.50	2.50	3.97	.78	.66	
3/8 x 4-1/2	1045112	1550	0.25	.38	.75	1.38	.31	2.50	4.50	5.97	.78	.66	
1/2 x 3-1/4	1045130	2600	0.43	.50	1.00	1.75	.38	1.50	3.25	5.12	1.00	.91	
1/2 x 6	1045158	2600	0.57	.50	1.00	1.75	.38	3.00	6.00	7.88	1.00	.91	
5/8 x 4	1045176	5200	0.69	.62	1.25	2.25	.50	2.00	4.00	6.44	1.31	1.12	
5/8 x 6	1045194	5200	1.02	.62	1.25	2.25	.50	3.00	6.00	8.44	1.31	1.12	
3/4 x 4-1/2	1045210	7200	1.45	.75	1.50	2.75	.62	2.00	4.50	7.44	1.56	1.38	
3/4 x 6	1045238	7200	1.68	.75	1.50	2.75	.62	3.00	6.00	8.94	1.56	1.38	
7/8 x 5	1045256	10600	2.25	.88	1.75	3.25	.75	2.50	5.00	8.46	1.84	1.56	
1 x 6	1045292	13300	3.66	1.00	2.00	3.75	.88	3.00	6.00	9.97	2.09	1.81	
1 x 9	1045318	13300	4.23	1.00	2.00	3.75	.88	4.00	9.00	12.97	2.09	1.81	
1-1/4 x 8	1045336	21000	6.50	1.25	2.50	4.50	1.00	4.00	8.00	12.72	2.47	2.28	
1-1/4 x 12	1045354	21000	7.95	1.25	2.50	4.50	1.00	4.00	12.00	16.72	2.47	2.28	
1-1/2 x 15	1045372	24000	14.25	1.50	3.00	5.50	1.25	6.00	15.00	20.75	3.00	2.75	

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.



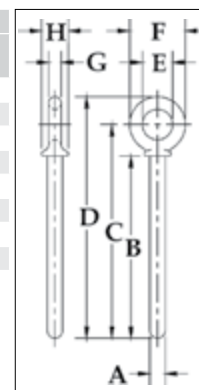
APPLICATION AND WARNING INFORMATION  
SECTION 17



### S-276 Shoulder Rivet Eye Bolts

- Forged steel - Quenched & Tempered.

Shank Dia. & Length (in)	Stock No.	Weight Per 100 (lb)	Dimensions (in)							
			A	B	C	D	E	F	G	H
1/2 x 3-1/4	1045862	33.00	.50	3.25	4.25	5.12	1.00	1.75	.38	.91
3/4 x 4-1/2	1045942	125.00	.75	4.50	6.06	7.44	1.50	2.75	.62	1.38
3/4 x 6	1045960	150.00	.75	6.00	7.56	8.94	1.50	2.75	.62	1.38
7/8 x 5	1045988	200.00	.88	5.00	6.84	8.46	1.75	3.25	.75	1.56
1 x 6	1046022	298.00	1.00	6.00	8.09	9.97	2.00	3.75	.88	1.81
1 x 9	1046040	425.00	1.00	9.00	11.09	12.97	2.00	3.75	.88	1.81
1-1/4 x 8	1046068	654.00	1.25	8.00	10.47	12.72	2.50	4.50	1.00	2.28
1-1/4 x 12	1046086	712.00	1.25	12.00	14.47	16.72	2.50	4.50	1.00	2.28
1-1/2 x 15	1046102	1425.00	1.50	15.00	18.00	20.75	3.00	5.50	1.25	2.75



**FORGED EYE BOLT**

**WARNINGS & APPLICATION INSTRUCTIONS**



Regular Nut Eye Bolt G-291

Shoulder Nut Eye Bolt G-277

Machinery Eye Bolt S-279 / M-279

**Important Safety Information - Read & Follow**

**Inspection/Maintenance Safety:**

- Always inspect eye bolt before use.
- Never use eye bolt that shows signs of wear or damage.
- Never use eye bolt if eye or shank is bent or elongated.
- Always be sure threads on shank and receiving holes are clean.
- Never machine, grind, or cut eye bolt.
- Do not leave threaded end of machinery eye bolt in aluminum loads for long periods of time as it may cause corrosion.

**Assembly Safety:**

- Never exceed load limits specified in Table 1 & Table 2.
- Never use regular nut eye bolts for angular lifts.
- Always use shoulder nut eye bolts (or machinery eye bolts) for angular lifts.
- For angular lifts, adjust working load as follows:

ANGLE FROM "IN-LINE"	ADJUSTED WORKING LOAD LIMIT
5 degrees	100% of rated working load
15 degrees	80% of rated working load
30 degrees	65% of rated working load
45 degrees	30% of rated working load
90 degrees	25% of rated working load

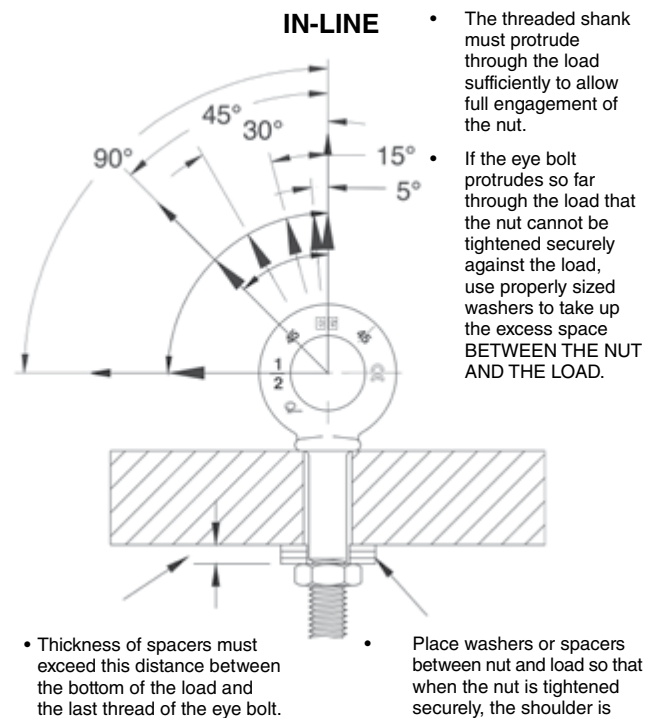
- Never undercut eye bolt to seat shoulder against the load.
- Always countersink receiving hole or use washers with sufficient I.D. to seat shoulder.
- Always screw eye bolt down completely for proper seating.
- Always tighten nuts securely against the load.

Size (in)	Working Load Limit (lb)
1/4	650
5/16	1,200
3/8	1,550
1/2	2,600
5/8	5,200
3/4	7,200
7/8	10,600
1	13,300
1-1/8	15,000
1-1/4	21,000
1-1/2	24,000
1-3/4	34,000
2	42,000
2-1/2	65,000

**⚠ WARNING**

- Load may slip or fall if proper eye bolt assembly and lifting procedures are not used.
- A falling load can seriously injure or kill.
- Read and understand these instructions, and follow all eye bolt safety information presented here.
- Read, understand, and follow information in diagrams and charts below before using eye bolt assemblies.

**Shoulder Nut Eye Bolt – Installation for Angular Loading**



**Figure 1**

Metric Size	Working Load Limit - kg
m6	200
m8	400
m10	640
m12	1000
m16	1800
m20	2500
m24	4000
m27	5000
m30	6000
m36	8500
m42	14000
m48	17300
m64	29500