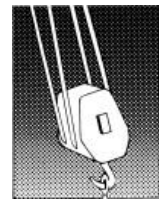


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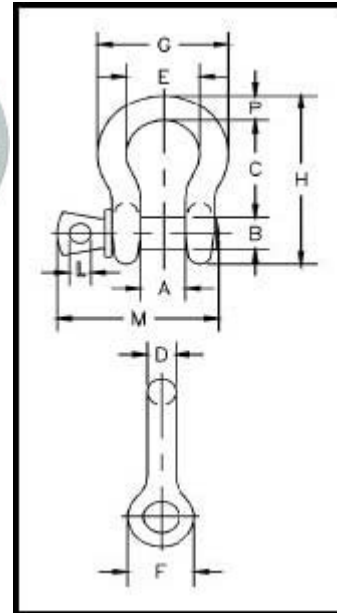
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Shackles

We offer drop forged, quenched and tempered screw pin anchor shackles as our standard but we will provide safety as well as other types of shackles on request. Working load limits are stamped into each shackle. We recommend the use of shackles in overhead lifting because they are rated for this with a built in 5:1 safety factor. We ordinarily sell Crosby shackles.



Nominal Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (lbs.)	Dimensions (in.)											Tolerance +/-	
		G-209	S-209		A	B	C	D	E	F	G	H	L	M	P	C	A
3/16	1/3	1018357	—	.06	.38	.25	.88	.19	.60	.56	.98	1.47	.16	1.12	.19	.06	.06
1/4	1/2	1018375	1018384	.10	.47	.31	1.13	.25	.78	.61	1.28	1.84	.19	1.38	.25	.06	.06
5/16	3/4	1018393	1018400	.19	.53	.38	1.22	.31	.84	.75	1.47	2.09	.22	1.66	.31	.06	.06
3/8	1	1018419	1018428	.31	.66	.44	1.44	.38	1.03	.91	1.78	2.49	.25	2.03	.38	.13	.06
7/16	1-1/2	1018437	1018446	.38	.75	.50	1.69	.44	1.16	1.06	2.03	2.91	.31	2.38	.44	.13	.06
1/2	2	1018455	1018464	.72	.81	.63	1.88	.50	1.31	1.19	2.31	3.28	.38	2.69	.50	.13	.06
5/8	3-1/4	1018473	1018482	1.37	1.06	.75	2.38	.63	1.69	1.50	2.94	4.19	.44	3.34	.69	.13	.06
3/4	4-3/4	1018491	1018507	2.35	1.25	.88	2.81	.75	2.00	1.81	3.50	4.97	.50	3.97	.81	.25	.06

Quicklinks



Quick links are not recommended for overhead lifting by the manufacturer, but are often used because of their convenience. Please keep in mind the working load limits when using quick links. If in doubt, use a shackle. We can supply batch tested as well as the Original Mallion Rapide individually tested quick links. Mallion Rapide quick links are manufactured by [Péguet and Cie](#) which was founded in 1941 as a family-owned company and now has a presence in more than 50 countries world-wide. The big strength of the Maillon Rapide (Quick Link) lies in its effectiveness. Despite their small size, they have a matchless strength, further checked by traction tests during the whole manufacturing process. Safety margin is 5 times the guaranteed working load limit (WLL).

Size		Working Load Limit	
metric	imperial	lbs	kg
4mm	1/8"	220	100

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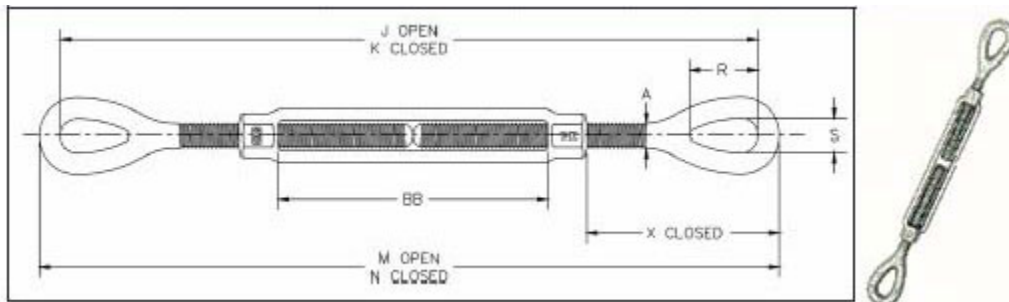


5mm	3/16"	660	300
6mm	1/4"	880	400
8mm	5/16"	1760	800
9mm	3/8"	2200	1000
10mm	7/16"	2600	1200
12mm	1/2"	3300	1500

Turnbuckles

Turnbuckles are available in a wide variety of sizes and styles. The most commonly used in the theatre are shown below, but we do carry larger sizes and other styles. Available in eye to eye, jaw to jaw, or hook to hook. These are all drop forged galvanized items. Both Crosby and offshore products are available.

Eye & Eye



Thread Diameter x Take up (in.)	Stock No. Galv.	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)								
				A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4 x 4	1031252	500	.26	.25	11.80	7.80	12.25	8.25	.78	.34	1.75	4.00
5/16 x 4 1/2	1031270	800	.45	.31	13.56	9.06	14.12	9.62	.94	.44	2.09	4.50
3/8 x 6	1031298	1200	.76	.38	17.47	11.47	18.16	12.16	1.12	.53	2.52	6.00
1/2 x 6	1031314	2200	1.54	.50	20.08	13.08	20.96	13.96	1.44	.72	3.23	6.00
1/2 x 12	1031350	2200	2.14	.50	32.08	19.08	32.96	19.96	1.44	.72	3.23	12.00

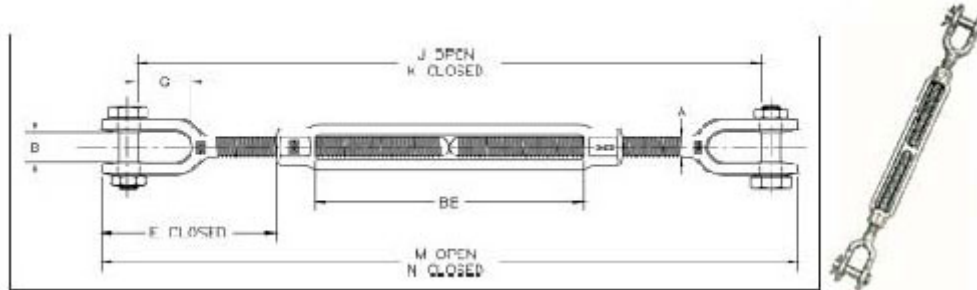
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Jaw & Jaw



Thread Dia. x Take up (in.)	HG-227 Stock No.	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)											
				A	B	E Closed	G	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4 x 4	1031877	500	.30	.25	.45	1.58	.62	11.35	7.35	12.07	8.07	.78	.34	1.75	4.00
5/16 x 4 1/2	1031895	800	.50	.31	.50	1.98	.87	13.71	8.71	14.01	9.51	.94	.44	2.09	4.50
3/8 x 6	1031911	1200	.80	.38	.54	2.12	.87	16.81	10.81	17.77	11.77	1.12	.53	2.52	6.00
1/2 x 6	1031939	2200	1.51	.50	.65	2.75	1.06	19.29	12.29	20.48	13.48	1.44	.72	3.23	6.00
1/2 x 9	1031957	2200	1.71	.50	.65	2.75	1.06	25.29	15.29	26.48	16.48	1.44	.72	3.23	9.00
1/2 x 12	1031957	2200	2.08	.50	.65	2.75	1.06	31.29	31.29	32.48	19.48	1.44	.72	3.23	12.00

Stage Hardware

D Rings & Hanging Irons

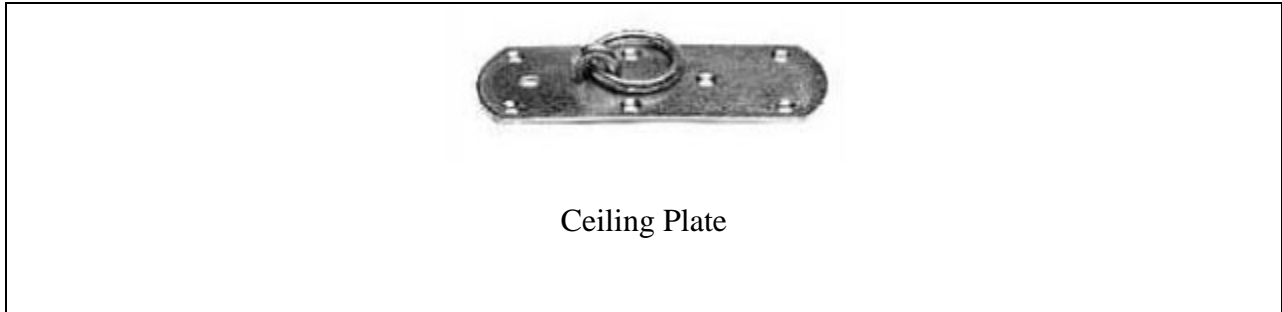
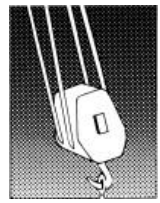
These items are manufactured as a tie off or attachment point for rigging hardware. Shown below are D Ring (most economical), top hanger, bottom hanger and ceiling plate.

 <p>D Ring with Plate 1 -1/8 w x 4 3/4" h Plate 2" w x 1-5/8" h Ring</p>	 <p>Top Hanging Iron 9" x 1- 1/8" wide 2" wide ring</p>	 <p>Bottom Iron 6-7/8" overall x 1" wide</p>
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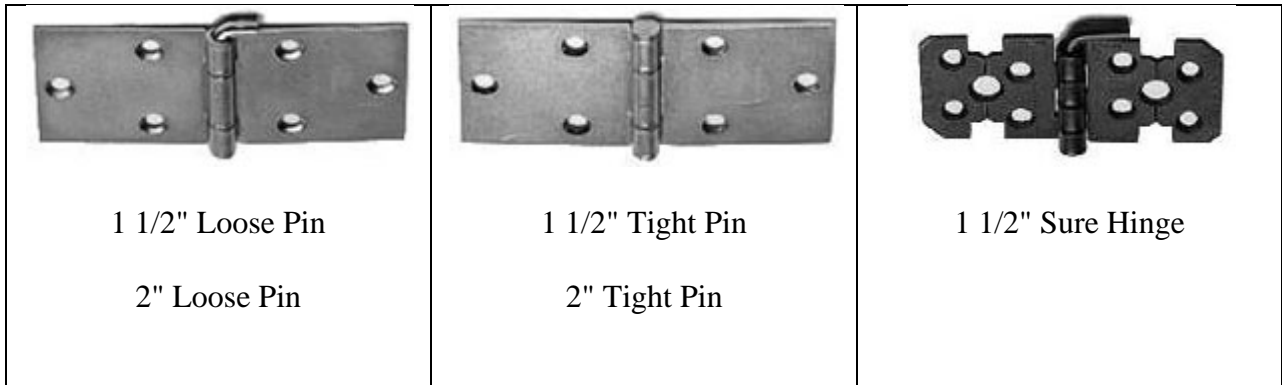
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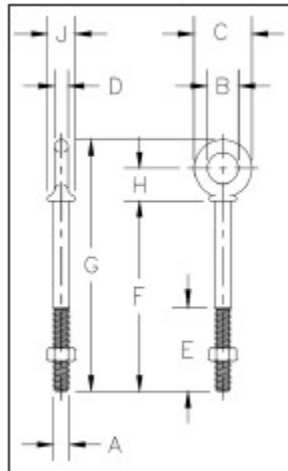
Hinges

We offer loose pin, tight pin and sure hinges for your scenic and or construction projects



Eye Bolts

G-277 Shoulder Nut Eye Bolts

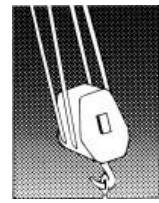


Shoulder Eye bolts should be utilized whenever there are angular lifts involved

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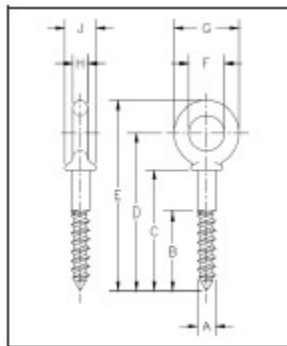
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Shank Diameter & Length (in.)	G-277 Stock No. Galv.	Working Load Limit (lbs.)	Weight Per 100 (lbs.)	Dimensions (in.)									
				A	B	C	D	E	F	G	H	J	
1/4 x 2	1045014	650	6.60	.25	.50	.88	.19	1.50	2.00	2.94	.50	.47	
1/4 x 4	1045032	650	9.10	.25	.50	.88	.19	2.50	4.00	4.94	.50	.47	
5/16 x 2-1/4	1045050	1200	12.50	.31	.62	1.12	.25	1.50	2.25	3.50	.69	.56	
5/16 x 4-1/4	1045078	1200	18.80	.31	.62	1.12	.25	2.50	4.25	5.50	.69	.56	
3/8 x 2-1/2	1045096	1550	21.40	.38	.75	1.38	.31	1.50	2.50	3.97	.78	.66	
3/8 x 4-1/2	1045112	1550	25.30	.38	.75	1.38	.31	2.50	4.50	5.97	.78	.66	
1/2 x 3-1/4	1045130	2600	42.60	.50	1.00	1.75	.38	1.50	3.25	5.12	1.00	.91	
1/2 x 6	1045158	2600	56.80	.50	1.00	1.75	.38	3.00	6.00	7.88	1.00	.91	

G-275 Screw Eye Bolts



Lag Eyes for a secure mounting into substantial wood framing are a great tool for the rigging kit.

Shank Diameter & Length (in.)	G-275 Stock No. Galv.	Weight Per 100 (lbs.)	Dimensions (in.)									
			A	B	C	D	E	F	G	H	J	
1/4 x 2	1046111	4.30	.25	1.50	2.00	2.50	2.94	.50	.88	.19	.47	
5/16 x 2-1/4	1046139	9.90	.31	1.69	2.25	2.94	3.50	.63	1.13	.25	.56	
3/8 x 2-1/2	1046157	18.88	.38	1.88	2.50	3.28	3.97	.75	1.38	.31	.66	
1/2 x 3-1/4	1046175	37.50	.50	2.44	3.25	4.25	5.12	1.00	1.75	.38	.91	
5/8 x 4	1046193	85.50	.63	3.00	4.00	5.31	6.44	1.25	2.25	.50	1.12	

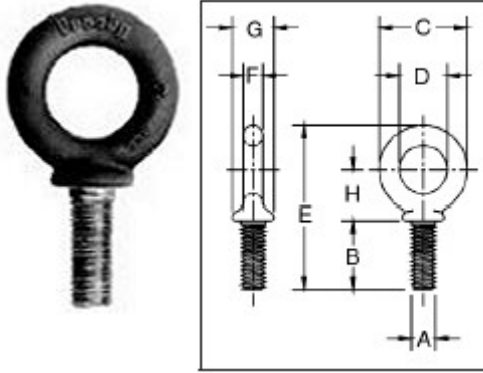
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Shoulder Type Machinery Eye Bolts



S-279 UNC

Size	S-279 Stock No.	Working Load Limit (lbs.)	Weight per 100 (lbs.)	Dimensions (in.)							
				A** Thread	B	C	D	E	F	G	H
1/4 x 1	9900182	650	5.00	1/4 - 20	1.02	1.13	.75	2.29	.19	.53	.70
5/16 x 1-1/8	9900191	1200	9.00	5/16 - 18	1.15	1.38	.88	2.74	.25	.59	.90
3/8 x 1-1/4	9900208	1550	15.00	3/8 - 16	1.27	1.62	1.00	3.07	.31	.69	1.00
1/2 x 1-1/2	9900217	2600	28.00	1/2 - 13	1.53	1.95	1.19	3.70	.38	.91	1.20

M-279 Metric

Size	M-279 Stock No.	Working Load Limit (kg)	Weight Each (kg)	Dimensions (mm)							
				A** Thread	B	C	D	E	F	G	H
M6 x 1.0	1045753	200	.03	M6 x 1.0	13.0	28.7	19.1	49	4.9	13.5	21.7
M8 x 1.0	1045789	400	.05	M8 x 1.25	13.0	35.1	22.4	56	6.4	15.0	25.5
M10 x 1.5	1045833	640	.07	M10 x 1.5	17.0	41.1	25.4	64	7.9	17.5	26.5
M12 x 1.75	1045869	1000	.11	M12 x 1.75	20.5	49.5	30.2	78	9.7	23.1	32.8

Chain

There is a wide variety of sizes and styles of chain on the market. Great care should go into the selection of the appropriate chain for your application. We stock the most useful types for the entertainment industry.

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Jack Chain

Is a twisted non-welded loop style of chain useful for very light duty suspension not requiring high strength. Often used in the support of curtain track or drapes from carriers.



Size	Max Dia	Inside length	WLL (lbs)
#8	.16	1.09	60
#10	.14	.93	43
#12	.11	.75	29
#14	.08	.63	16
#16	.06	.5	10

Double Loop

Is a weldless knotted style of low carbon steel chain. While it has higher working load limits, its uses are again for very light duty suspension



Size	Dia	Inside Length	WLL (lbs)
5	.06	.92	55
4	.07	1	70
3	.08	1.1	90
2	.09	1.33	115
1	.11	1.54	155
2/0	.14	2.17	255
3/0	.15	2.17	305
4/0	.16	2.19	365
8/0	.23	2.9	705

Grade 30

Is a good general purpose chain. It is proof tested to twice its working load limit with a minimum ultimate load of 4 times its working load limit.

While not recommended for overhead lifting by the various manufactures it is commonly used in the theatre for the suspension of scenery and pipes due to the ease of attachment of fittings. JR Clancy has come out with the following recommendation from their Chain supplier. "When used within the appropriate work load limits proof coil chain may be used in hanging towing and pulling applications"



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Size	WLL (lbs)
3/16	750
1/4	1300
5/16	1900
3/8	2650

Grade 80

This is the only grade of chain recommended by the manufactures for overhead lifting. Unfortunately it is very expensive and the attachment of fittings is very particular.

Recommended for overhead lifting applications.

Chain Size (in.)	Spec. 8 Drum Stock No.	Feet Per Drum	Material Size (in.)	Working Load Limit (lbs.)*	Maximum Inside Length (in.)	Minimum Inside Width (in.)	Maximum Length 100 Links (in.)	Weight Per 100 Ft.(lbs.)
9/32 (1/4)	273527	500	.276	3500	.90	.34	90	72
5/16	273536	500	.343	4500	1.00	.48	100	114
3/8	273545	500	.394	7100	1.25	.49	125	148

CM Special Theatrical Alloy Chain (STAC)

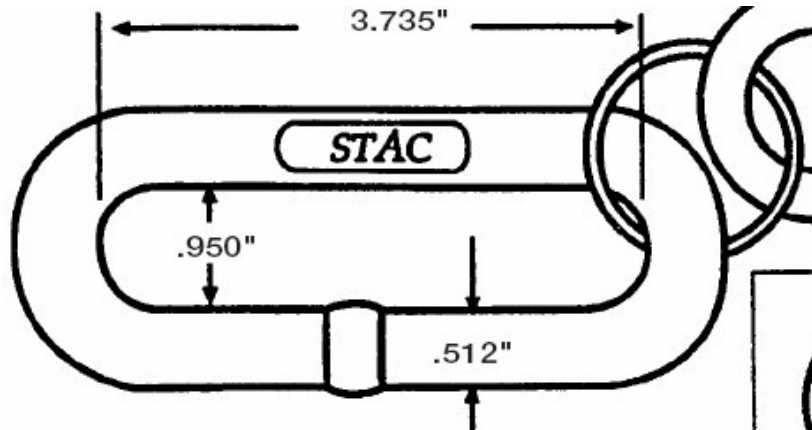
- Special theatrical alloy chain for rigging applications where bridle adjustability is required
- Adjustable to approximate 4" (100mm), will accept up to a 3/4 inch shackle.
- For adjustment in bridles, also useful for hanging safety steels.
- High strength chain with a working load limit of 12,000lbs, 5900 Kg.
- Made from heat treated alloy steel - fire proof and abrasion resistant.
- Tested and certified, complete with chain tag.
- 4:1 design factor meets N.A.C.M./GR80 standards for strength
- Each link proof tested to assure weld and material integrity
- Chain embossed with STAC and CM for easy identification as CM alloy
- .5750 lbs. per link
- 1.84 lbs. per foot
- Tagged with size, grade, reach and working load limit for positive easy identification



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SECOA Theatrical Chain (STC™)

SECOA Theatrical Chain (STC™) is an economical chain designed for overhead lifting applications for the theatrical market.

FEATURES:

- Rugged, versatile, high strength with low weight.
- The ultimate tensile strength is two and a half times the strength of a standard 1/4" proof coil chain.
- Same link size as standard 1/4" grade 30 Proof Coil Chain.
- Easily works with existing 1/4" chain hardware.
- SECOA Theatrical Chain (STC™) is made from alloy steel for superior performance and strength.
- Working load limit of 3,250 pounds.
- Complies with OSHA 1910.184(e)(5) – Sling use.
- Lot traceable. Every tenth link has a coded date stamp for quality assurance.
- Proof Tested. Every link is proof tested to twice the working load limit.
- Each link is embossed with "STC" for identification.
- Yellow iridescent chromate finish for easy identification.

BENEFITS:

- Safe, reliable and economical.
- High working load limit for safety.
- Easily identifiable in the field.
- Lot traceable.
- Proof Tested.
- Retrofits easily into existing systems for added safety.

