

ASAP FASTENING SYSTEMS, INC.

SUPPLIES FOR INDUSTRY AND CONSTRUCTION

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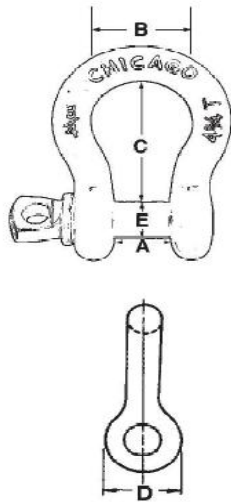
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DROP FORGED ANCHOR SHACKLES



Size, working load limit, and trademark are permanently marked on all shackles. All shackles and pins are heat treated. Loads are based on a safety factor of 6 to 1, except (**) which is 5 to 1. When tested all shackles are pulled at a uniform rate of speed in a direct tension.

Shackles Meet Performance Requirements of Federal Specifications RR-C-271D Type IVA*



Working Load Limit in Tons	Anchor - Round Pin - Screw Pin - Safety								Estimated Weight Per 100 in lbs.
	Dimensions - Inches						O.D. Eyes (D)	Pin or Bolt Dia. (E)	
	Size Dia.	Width @ Eyes (A)	Tol. ±	Width @ Bow (B)	Length (C)	Tol. ±			
1/3	3/16"	3/8"	1/16"	9/16"	7/8"	1/16"	5/8"	1/4"	7
1/2	1/4"	15/32"	1/16"	3/4"	1-1/8"	1/16"	3/4"	5/16"	13.5
3/4	5/16"	17/32"	1/16"	15/16"	1-1/4"	1/16"	7/8"	3/8"	22
1	3/8"	21/32"	1/16"	1-1/8"	1-7/16"	1/8"	1"	7/16"	33
1-1/2	7/16"	23/32"	1/16"	1-5/16"	1-11/16"	1/8"	1-1/8"	1/2"	53.5
2	1/2"	13/16"	1/16"	1-1/2"	1-15/16"	1/8"	1-1/4"	5/8"	78.5
3-1/4	5/8"	1-1/16"	1/16"	1-7/8"	2-1/2"	1/8"	1-11/16"	3/4"	150.5
4-3/4	3/4"	1-1/4"	1/16"	2"	3"	1/4"	1-7/8"	7/8"	245.5
6-1/2	7/8"	1-7/16"	1/16"	2-5/8"	3-1/4"	1/4"	2-1/8"	1"	375
8-1/2	1"	1-11/16"	1/16"	2-3/4"	3-3/4"	1/4"	2-1/2"	1-1/8"	537.5
9-1/2	1-1/8"	1-13/16"	1/16"	2-15/16"	4-1/4"	1/4"	2-5/8"	1-1/4"	765
12	1-1/4"	2"	1/16"	3-1/4"	4-1/2"	1/4"	3"	1-3/8"	1007.5
13 1/2	**1-3/8"	2-1/4"	1/8"	3-1/2"	5-1/4"	1/4"	3-1/4"	1-1/2"	1232.5
17	1-1/2"	2-3/8"	1/8"	3-3/4"	5-3/4"	1/4"	3-1/2"	1-5/8"	1777.5

WARNING:

Any deviations such as angular lifts, shock loads, modification of the basic forging, etc., will result in drastically reduced working load limits.

All types of shackles are available in a self-colored or hot galvanized finish. When ordering specify the size, finish, and type of shackle. Other rust preventative coatings are available on a special basis.

Safety shackles are of the same specifications as the regular types except for the bolt, nut and cotter.

*Class 1



ROUND PIN

Size	Galvanized	Self-Colored
	Part No.	Part No.
3/16"	21105 5	21005 8
1/4"	21110 9	21010 2
5/16"	21115 4	21015 7
3/8"	21120 8	21020 1
7/16"	21125 3	21025 6
1/2"	21130 7	21030 0
5/8"	21135 2	21035 5
3/4"	21140 6	21040 9
7/8"	21145 1	21045 4
1"	21150 5	21050 8
1-1/8"	21155 0	21055 3
1-1/4"	21160 4	21060 7
1-3/8"	21165 9	21065 2
1-1/2"	21170 3	21070 6

*Class 2



SCREW PIN

Size	Galvanized	Self-Colored
	Part No.	Part No.
3/16"	20105 6	20005 9
1/4"	20110 0	20010 3
5/16"	20115 5	20015 8
3/8"	20120 9	20020 2
7/16"	20125 4	20025 7
1/2"	20130 8	20030 1
5/8"	20135 3	20035 6
3/4"	20140 7	20040 0
7/8"	20145 2	20045 5
1"	20150 6	20050 9
1-1/8"	20155 1	20055 4
1-1/4"	20160 5	20060 8
1-3/8"	20165 0	20065 3
1-1/2"	20170 4	20070 7

*Class 3



SAFETY

Size	Galvanized	Self-Colored
	Part No.	Part No.
1/4"	20610 5	20510 8
5/16"	20615 0	20515 3
3/8"	20620 4	20520 7
7/16"	20625 9	20525 2
1/2"	20630 3	20530 6
5/8"	20635 8	20535 1
3/4"	20640 2	20540 5
7/8"	20645 7	20545 0
1"	20650 1	20550 4
1-1/8"	20655 6	20555 9
1-1/4"	20660 0	20560 3
1-1/2"	20670 9	20570 2



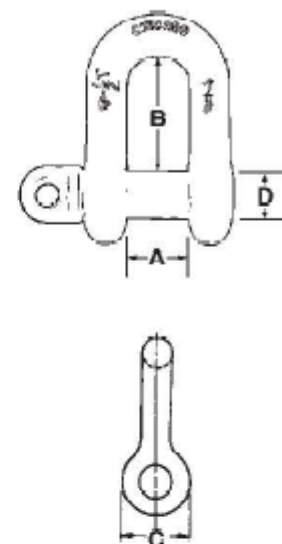


DROP FORGED CHAIN SHACKLES

Size, working load, and trademark are permanently marked on all shackles. All shackles and pins are heat treated. Loads are based on a safety factor of 6 to 1. When tested all shackles are pulled at a uniform rate of speed in a direct tension.

Shackles Meet Performance Requirements of Federal Specifications RR-C-271D Type IVB*

Working Load Limit in Tons	Chain — Round Pin — Screw Pin — Safety							Estimated Weight Per 100 in lbs.
	Dimensions — Inches					O.D. Eyes (C)	Pin or Bolt Dia. (D)	
	Size Dia.	Width (A)	Tol. ±	Length (B)	Tol. ±			
1/2	1/4"	16/32"	1/16"	7/8"	1/16"	3/4"	5/16"	11
3/4	5/16"	17/32"	1/16"	1"	1/16"	7/8"	3/8"	20
1	3/8"	21/32"	1/16"	1-1/4"	1/8"	1"	7/16"	31.5
1-1/2	7/16"	23/32"	1/16"	1-1/2"	1/8"	1-1/8"	1/2"	46.5
2	1/2"	13/16"	1/16"	1-11/16"	1/8"	1-1/4"	5/8"	69.5
3-1/4	5/8"	1-1/16"	1/16"	2"	1/8"	1-5/8"	3/4"	132.5
4-3/4	3/4"	1-1/4"	1/16"	2-5/16"	1/4"	1-7/8"	7/8"	212
6-1/2	7/8"	1-7/16"	1/16"	2-7/8"	1/4"	2-1/8"	1"	320
8-1/2	1"	1-11/16"	1/16"	3-1/4"	1/4"	2-1/2"	1-1/8"	500



WARNING:

Any deviations such as angular lifts, shock loads, modification of the basic forging, etc., will result in drastically reduced working load limits.

All types of shackles are available in a self-colored or hot galvanized finish. When ordering specify the size, finish, and type of shackle. Other rust preventative coatings are available on a special basis.

Safety shackles are of the same specifications as the regular types except for the bolt, nut and cotter.

*Class 1



ROUND PIN

Size	Galvanized	Self-Colored
	Part No.	Part No.
1/4"	21310 3	21210 6
5/16"	21315 8	21215 1
3/8"	21320 2	21220 5
7/16"	21325 7	21225 0
1/2"	21330 1	21230 4
5/8"	21335 6	21235 9
3/4"	21340 0	21240 3
7/8"	21345 5	21245 8
1"	21350 0	21250 2

*Class 2



SCREW PIN

Size	Galvanized	Self-Colored
	Part No.	Part No.
1/4"	20310 4	20210 7
5/16"	20315 9	20215 2
3/8"	20320 3	20220 6
7/16"	20325 8	20225 1
1/2"	20330 2	20230 5
5/8"	20335 7	20235 0
3/4"	20340 1	20240 4
7/8"	20345 6	20245 9
1"	20350 0	20250 3

*Class 3



SAFETY

Size	Galvanized	Self-Colored
	Part No.	Part No.
1/4"	20810 9	20710 2
5/16"	20815 4	20715 7
3/8"	20820 8	20720 1
7/16"	20825 3	20725 6
1/2"	20830 7	20730 0
5/8"	20835 2	20735 5
3/4"	20840 6	20740 9
7/8"	20845 1	20745 4
1"	20850 5	20750 8