

| Trade Size Dia. | Proof Coil Chain / Grade 30 | | | | |
|-----------------|------------------------------|---------------|-------------------|-------------------------|------------------------------|
| | Working Load Limit in Pounds | Feet per Drum | Feet per 1/2 Drum | Minimum Weight per Foot | Maximum Length per 100 Links |
| 1/8" | 375 | 2,000 | 1,000 | .17 | 90.5" |
| 3/16" | 800 | 1,600 | 800 | .33 | 96.4" |
| 1/4" | 1,300 | 800 | 400 | .63 | 124.0" |
| 5/16" | 1,900 | 550 | 275 | .93 | 129.1" |
| 3/8" | 2,650 | 400 | 200 | 1.41 | 137.8" |
| 1/2" | 4,500 | 200 | 100 | 2.40 | 179.1" |
| 5/8" | 6,900 | 150 | 75 | 3.58 | 220.5" |
| 3/4" | 10,600 | 100 | 50 | 5.48 | 275.6" |
| 7/8" | 12,800 | 75 | 35 | 7.31 | 258.7" |
| 1" | 13,950 | 60 | 30 | 9.41 | 278.8" |

Proof Coil Chain

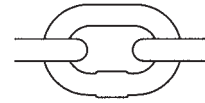
Grade 30 / Self Colored-Zinc Plated-Hot Galvanized



| Trade Size | High Test Chain / Grade 43 | | | | |
|------------|------------------------------|---------------|-------------------|-------------------------|------------------------------|
| | Working Load Limit in Pounds | Feet per Drum | Feet per 1/2 Drum | Minimum Weight per Foot | Maximum Length per 100 Links |
| 1/4" | 2600 | 800 | 400 | .63 | 124.0" |
| 5/16" | 3900 | 550 | 275 | .93 | 129.1" |
| 3/8" | 5400 | 400 | 200 | 1.41 | 167.8" |
| 1/2" | 9200 | 200 | 100 | 2.40 | 179.1" |
| 5/8" | 11500 | 150 | 75 | 3.58 | 220.5" |
| 3/4" | 16200 | 100 | 50 | 5.48 | 275.6" |

High Test Chain

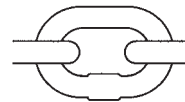
Grade 43 / Self Colored-Hot Galvanized



| Trade Size | Transport Chain / Grade 70 Yellow Chromatized | | | | |
|------------|---|---------------|-------------------|-------------------------|------------------------------|
| | Working Load Limit in Pounds | Feet per Drum | Feet per 1/2 Drum | Minimum Weight per Foot | Maximum Length per 100 Links |
| 1/4" | 3,150 | 800 | 400 | .63 | 124.0" |
| 5/16" | 4,700 | 550 | 275 | .93 | 129.1" |
| 3/8" | 6,600 | 400 | 200 | 1.41 | 137.8" |
| 1/2" | 11,300 | 200 | 100 | 2.40 | 179.1" |

Transport Chain

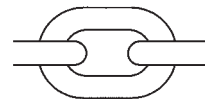
Grade 70 / Yellow Chromatized



| Trade Size | Alloy Chain / Grade 80 | | | | |
|------------|------------------------------|------------------------------------|--------------------------|---------------|--------------|
| | Working Load Limit in Pounds | Approx. Weight per 100 Ft. in Lbs. | Actual Material Diameter | Inside Length | Inside Width |
| 9/32" | 3,500 | 72 | .281 | .88 | .40 |
| 3/8" | 7,100 | 150 | .397 | 1.22 | .57 |
| 1/2" | 12,000 | 261 | .520 | 1.56 | .775 |
| 5/8" | 18,100 | 361 | .630 | 1.93 | .87 |
| 3/4" | 28,300 | 540 | .750 | 2.02 | .97 |
| 7/8" | 34,200 | 713 | .875 | 2.27 | 1.14 |
| 1" | 47,700 | 948 | 1.000 | 2.67 | 1.35 |

Alloy Chain

Grade 80 Domestic

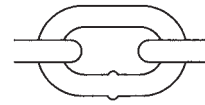


All chains comply with NACM standards

| Trade Size | Stainless Steel Chain / T316 | | |
|------------|------------------------------|---------------|---------------------------|
| | Working Load Limit in Pounds | Feet per Drum | Weight per Foot in Pounds |
| 1/8" | 375 | 1,000 | .22 |
| 3/16" | 750 | 1,000 | .45 |
| 1/4" | 1,250 | 400 | .78 |
| 5/16" | 1,900 | 275 | .97 |
| 3/8" | 2,650 | 200 | 1.67 |
| 1/2" | 4,500 | 200 | 2.25 |

All chains comply with NACM standards
 Link chain fitting minimum breaking strength = 6 x W.L.L.

Stainless Steel Chain T316

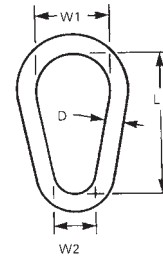


Links

| Size (D) | Pair Shaped Sling Links, High Test | | | | |
|----------|--|-------------------------------|-----------------|--------------|-------|
| | Working Load Limit in Lbs. (Single Pull) | Approx. Weight Each in Pounds | Inside Length L | Inside Width | |
| | | | | W1 | W2 |
| 3/8" | 1,800 | .23 | 2.25" | 1.50" | .75" |
| 1/2" | 2,900 | .51 | 3.00" | 2.00" | 1.00" |
| 5/8" | 4,200 | 1.1 | 3.75" | 2.50" | 1.25" |
| 3/4" | 6,000 | 2.0 | 4.75" | 2.75" | 1.38" |
| 7/8" | 8,300 | 2.7 | 5.25" | 3.50" | 1.75" |
| 1" | 10,800 | 4.6 | 6.00" | 3.75" | 1.88" |
| 1.1/4" | 16,750 | 9.0 | 8.00" | 5.00" | 2.50" |
| 1.3/8" | 20,500 | 11.6 | 8.25" | 5.50" | 2.75" |
| 1.1/2" | 25,000 | 15.0 | 9.25" | 6.00" | 3.00" |
| 1.3/4" | 34,000 | 23.1 | 10.50" | 7.00" | 3.50" |
| 2" | 45,000 | 33.0 | 12.50" | 8.00" | 4.00" |
| 2.1/4" | 56,000 | 47.3 | 14.00" | 9.00" | 4.50" |
| 2.1/2" | 68,500 | 67.0 | 15.50" | 10.00" | 5.00" |
| 2.3/4" | 84,500 | 93.0 | 17.00" | 11.00" | 5.50" |

Pear Shaped Sling Links High Test

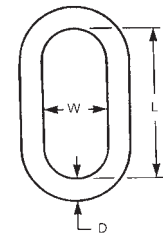
Heat Treated, Painted



| Size (D) | Oblong Master Link, Alloy | | | |
|----------|--|-----------------------------------|---------------|--------|
| | Working Load Limit in Pounds (Single Pull) | Approximate Weight Each in Pounds | Inside Length | |
| | | | L | W |
| 1/2" | 4,100 | .84 | 5.00" | 2.25" |
| 5/8" | 5,500 | 1.6 | 6.00" | 3.00" |
| 3/4" | 8,600 | 2.2 | 6.00" | 3.00" |
| 1" | 20,300 | 5.0 | 8.00" | 4.00" |
| 1.1/4" | 29,300 | 10.5 | 9.00" | 5.00" |
| 1.1/2" | 39,900 | 16.5 | 11.00" | 6.00" |
| 1.3/4" | 52,100 | 28.2 | 12.00" | 6.75" |
| 2" | 81,400 | 37.0 | 14.00" | 7.50" |
| 2.1/4" | 99,400 | 53.0 | 16.00" | 8.00" |
| 2.1/2" | 122,750 | 69.0 | 17.00" | 8.50" |
| 2.3/4" | 148,500 | 97.0 | 18.00" | 10.00" |
| 3" | 190,000 | 136.0 | 20.00" | 10.50" |
| 3.1/2" | 232,500 | 198.0 | 22.00" | 12.00" |
| 4" | 275,200 | 257.0 | 24.00" | 14.00" |

Oblong Master Links, Alloy

Heat Treated, Painted

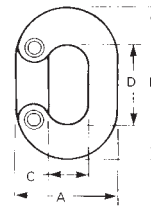


Read important warnings and information on the inside cover of this catalog titled Cautions.

| Size | Working Load Limit in Pounds | Approximate Weight Each in Pounds | Connecting Links | | | |
|-------|------------------------------|-----------------------------------|------------------|------|-----|------|
| | | | A | B | C | D |
| 3/16" | 750 | .03 | .81 | 1.19 | .31 | .69 |
| 1/4" | 1,250 | .06 | 1.00 | 1.50 | .44 | .84 |
| 5/16" | 1,900 | .10 | 1.19 | 1.69 | .47 | .94 |
| 3/8" | 2,650 | .17 | 1.44 | 2.09 | .56 | 1.19 |
| 1/2" | 4,500 | .36 | 1.75 | 2.63 | .66 | 1.44 |

Connecting Links

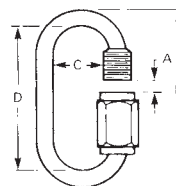
Forged Steel, Heat Treated, Electro Galvanized



| Size | Working Load Limit in Pounds | Approximate Weight Each in Pounds | Quick Links (Rapid) | | | |
|-------|------------------------------|-----------------------------------|---------------------|------|-----|------|
| | | | A | B | C | D |
| 1/8" | 400 | .02 | .19 | 1.45 | .39 | 1.19 |
| 3/16" | 660 | .05 | .25 | 2.06 | .50 | 1.69 |
| 1/4" | 880 | .08 | .31 | 2.38 | .56 | 1.88 |
| 5/16" | 1,760 | .18 | .38 | 2.94 | .69 | 2.31 |
| 3/8" | 2,200 | .23 | .44 | 3.19 | .69 | 2.44 |
| 1/2" | 3,300 | .52 | .56 | 4.25 | .94 | 3.25 |

Quick Links Rapid

Electro Galvanized

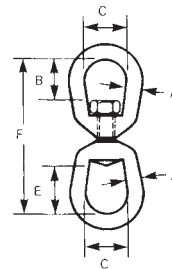


| Size (A) | Working Load Limit in Pounds | Approximate Weight Each in Pounds | Eye & Eye Swivels-Hot Galvanized | | | |
|----------|------------------------------|-----------------------------------|----------------------------------|------|------|-------|
| | | | B | C | E | F |
| 1/4" | 850 | .20 | .69 | .75 | .94 | 2.88 |
| 5/16" | 1,250 | .38 | .75 | 1.00 | 1.13 | 3.63 |
| 3/8" | 2,250 | .68 | .94 | 1.25 | 1.38 | 4.25 |
| 1/2" | 3,600 | 1.4 | 1.38 | 1.50 | 1.94 | 5.63 |
| 5/8" | 5,200 | 2.5 | 1.63 | 1.75 | 2.31 | 6.63 |
| 3/4" | 7,200 | 3.9 | 1.81 | 2.00 | 2.56 | 7.25 |
| 7/8" | 10,000 | 6.25 | 2.06 | 2.25 | 3.06 | 8.38 |
| 1" | 12,500 | 9.00 | 2.31 | 2.50 | 3.50 | 9.00 |
| 1.1/8" | 15,200 | 12.46 | 2.38 | 2.75 | 3.75 | 10.38 |
| 1.1/4" | 18,000 | 16.37 | 2.69 | 3.13 | 4.00 | 11.13 |
| 1.1/2" | 45,200 | 49.06 | 4.19 | 4.00 | 4.19 | 17.13 |

Swivels

Eye & Eye Swivels

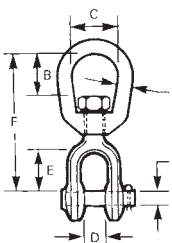
Hot Galvanized



| Size (A) | Working Load Limit in Pounds | Approximate Weight Each in Pounds | Jaw & Eye Swivels-Hot Galvanized | | | | | |
|----------|------------------------------|-----------------------------------|----------------------------------|------|------|------|-------|------|
| | | | B | C | D | E | F | G |
| 1/4" | 850 | .22 | .69 | .75 | .38 | .88 | 2.69 | .25 |
| 5/16" | 1,250 | .39 | .88 | 1.00 | .50 | .88 | 2.88 | .31 |
| 3/8" | 2,250 | .71 | .94 | 1.25 | .63 | 1.00 | 3.50 | .38 |
| 1/2" | 3,600 | 1.4 | 1.38 | 1.50 | .81 | 1.31 | 4.50 | .50 |
| 5/8" | 5,200 | 2.3 | 1.63 | 1.75 | 1.00 | 1.50 | 5.31 | .63 |
| 3/4" | 7,200 | 3.5 | 1.75 | 2.00 | 1.19 | 1.75 | 6.06 | .75 |
| 7/8" | 10,000 | 5.75 | 2.06 | 2.25 | 1.19 | 2.06 | 7.00 | .88 |
| 1" | 12,500 | 10.25 | 2.21 | 2.50 | 1.75 | 2.81 | 8.56 | 1.13 |
| 1.1/8" | 15,200 | 12.48 | 2.38 | 2.75 | 1.75 | 2.81 | 8.94 | 1.13 |
| 1.1/4" | 18,200 | 15.75 | 2.69 | 3.13 | 2.06 | 2.81 | 9.44 | 1.38 |
| 1.1/2" | 45,200 | 54.74 | 4.19 | 4.00 | 2.88 | 4.44 | 14.75 | 2.25 |

Jaw & Eye Swivels

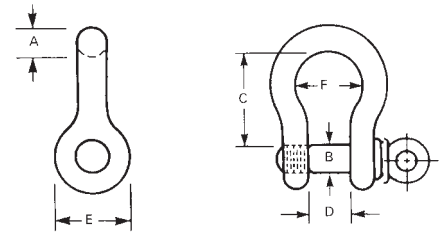
Hot Galvanized



| Size (A) | Work Load Limit in Tons | Pin Diameter in Inches (B) | Approx. Weight Each in Pounds | Anchor Shackle Screw Pin/Galvanized | | | |
|----------|-------------------------|----------------------------|-------------------------------|-------------------------------------|------|------|------|
| | | | | C | D | E | F |
| 3/16" | 1/3 | 1/4 | .05 | .88 | .38 | .56 | .63 |
| 1/4" | 1/2 | 5/16 | .13 | 1.06 | .47 | .66 | .75 |
| 5/16" | 3/4 | 3/8 | .21 | 1.25 | .53 | .81 | .84 |
| 3/8" | 1 | 7/16 | .33 | 1.44 | .63 | .97 | 1.00 |
| 7/16" | 1.1/2 | 1/2 | .47 | 1.69 | .75 | 1.06 | 1.13 |
| 1/2" | 2 | 5/8 | .76 | 1.88 | .81 | 1.31 | 1.25 |
| 5/8" | 3.1/4 | 3/4 | 1.44 | 2.44 | 1.06 | 1.56 | 1.69 |
| 3/4" | 4.3/4 | 7/8 | 2.3 | 2.88 | 1.19 | 1.88 | 1.94 |
| 7/8" | 6.1/2 | 1 | 3.5 | 3.38 | 1.44 | 2.13 | 2.19 |
| 1" | 8.1/2 | 1.1/8 | 5.0 | 3.81 | 1.69 | 2.38 | 2.63 |
| 1.1/8" | 9.1/2 | 1.1/4 | 7.0 | 4.25 | 1.75 | 2.63 | 2.88 |
| 1.1/4" | 12 | 1.3/8 | 9.5 | 4.69 | 2.00 | 3.00 | 3.13 |
| 1.3/8" | 13.1/2 | 1.1/2 | 13.0 | 5.31 | 2.13 | 3.25 | 3.50 |
| 1.1/2" | 17 | 1.5/8 | 16.5 | 5.69 | 2.31 | 3.50 | 3.75 |
| 1.3/4" | 25 | 2 | 29.0 | 7.06 | 2.88 | 4.25 | 4.88 |
| 2" | 35 | 2.1/4 | 43.0 | 7.75 | 3.31 | 4.88 | 5.44 |
| 2.1/4" | 45 | 2.1/2 | 59.4 | 9.25 | 3.63 | 5.25 | 5.50 |
| 2.1/2" | 55 | 2.3/4 | 86.0 | 10.75 | 4.13 | 5.88 | 7.25 |
| 3" | 85 | 3.1/4 | 119.5 | 13.75 | 4.88 | 6.75 | 7.63 |

Anchor Shackles Screw Pin

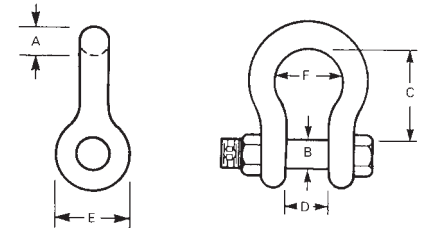
Galvanized, Available in Commercial Grade



| Size (A) | Work Load Limit in Tons | Pin Diameter in Inches (B) | Approx. Weight Each in Pounds | Anchor Shackle Screw Pin/Galvanized | | | |
|----------|-------------------------|----------------------------|-------------------------------|-------------------------------------|-------|-------|-------|
| | | | | C | D | E | F |
| 3/4" | 7 | 7/8 | 2.8 | 3.00 | 1.28 | 1.88 | 1.97 |
| 7/8" | 9 | 1 | 4.2 | 3.38 | 1.44 | 2.13 | 2.28 |
| 1" | 12 | 1.1/8 | 6.4 | 3.94 | 1.72 | 2.38 | 2.69 |
| 1.1/4" | 18 | 1.3/8 | 11.7 | 4.81 | 2.06 | 2.91 | 3.25 |
| 1.1/2" | 30 | 1.5/8 | 19.7 | 6.00 | 2.31 | 3.63 | 3.75 |
| 1.3/4" | 40 | 2 | 32.6 | 7.50 | 2.88 | 4.13 | 5.00 |
| 2" | 50 | 2.1/4 | 48.3 | 8.25 | 3.38 | 4.81 | 6.25 |
| 2.1/2" | 80 | 2.3/4 | 94.0 | 11.0 | 4.25 | 5.84 | 7.63 |
| 3" | 120 | 3.1/4 | 145.0 | 13.75 | 5.13 | 6.75 | 9.00 |
| 3.1/2" | 150 | 3.3/4 | 250.0 | 14.75 | 5.75 | 8.25 | 9.50 |
| 4" | 175 | 4.1/4 | 358.0 | 17.50 | 6.75 | 9.50 | 11.88 |
| 4.1/4" | 200 | 4.3/4 | 460.0 | 21.31 | 7.00 | 9.97 | 12.75 |
| 4.3/4" | 250 | 5.1/8 | 640.0 | 22.50 | 7.88 | 10.50 | 14.13 |
| 5.1/8" | 300 | 5.3/4 | 810.0 | 22.50 | 8.25 | 11.00 | 15.75 |
| 6.1/8" | 500 | 6.3/4 | 1,380.0 | 30.50 | 9.88 | 14.00 | 19.63 |
| 8" | 750 | 8.1/2 | 3,070.0 | 32.50 | 13.38 | 17.00 | 23.00 |
| 9.1/2" | 1,000 | 10 | 5,150.0 | 39.00 | 15.50 | 20.00 | 29.13 |

Anchor Shackles Bolt Type

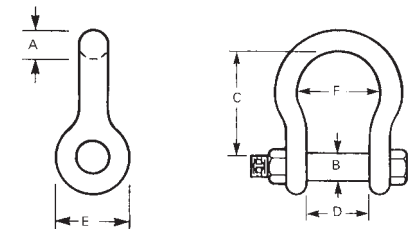
Alloy Steel, Available as Chain Shackles



| Size (A) | Work Load Limit in Tons | Pin Diameter in Inches (B) | Approx. Weight Each in Pounds | Towing Shackles / Alloy | | | |
|----------|-------------------------|----------------------------|-------------------------------|-------------------------|-------|------|-------|
| | | | | C | D | E | F |
| 1.1/2" | 22 | 1.7/8 | 4.19 | 27.5 | 8.50 | 3.75 | 6.25 |
| 1.3/4" | 30 | 2 | 5.00 | 40 | 9.75 | 4.38 | 6.88 |
| 2" | 40 | 2.1/4 | 5.75 | 56 | 10.75 | 5.00 | 8.13 |
| 2.1/2" | 55 | 2.3/4 | 6.50 | 106 | 12.38 | 6.00 | 8.38 |
| 3" | 80 | 3.1/4 | 7.25 | 157 | 13.00 | 6.75 | 10.00 |

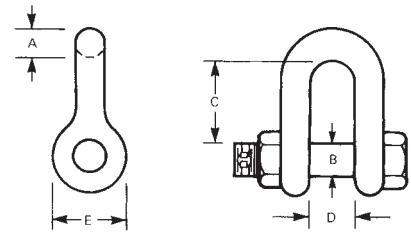
Towing Shackles

Alloy Steel



| Size (A) | Work Load Limit in Tons | Bolt Diameter in Inches (B) | Approx. Weight Each in Pounds | Chain Shackles Bolt Type / Galvanized | | |
|----------|-------------------------|-----------------------------|-------------------------------|---------------------------------------|------|------|
| | | | | C | D | E |
| 1/2" | 2 | 5/8 | .91 | 1.69 | .81 | 1.25 |
| 5/8" | 3.1/4 | 3/4 | 1.72 | 2.09 | 1.09 | 1.53 |
| 3/4" | 4.3/4 | 7/8 | 2.7 | 2.44 | 1.28 | 1.81 |
| 7/8" | 6.1/2 | 1 | 3.94 | 2.94 | 1.47 | 2.13 |
| 1" | 8.1/2 | 1.1/8 | 5.75 | 3.25 | 1.69 | 2.38 |
| 1.1/8" | 9.1/2 | 1.1/4 | 8.0 | 3.56 | 1.84 | 2.69 |
| 1.1/4" | 12 | 1.3/8 | 10.5 | 3.94 | 2.00 | 2.94 |
| 1.3/8" | 13.1/2 | 1.1/2 | 13.1 | 4.50 | 2.25 | 3.34 |
| 1.1/2" | 17 | 1.5/8 | 18.3 | 5.00 | 2.31 | 3.63 |
| 1.3/4" | 25 | 2 | 29.3 | 6.00 | 2.88 | 4.13 |
| 2" | 35 | 2.1/4 | 44.3 | 7.00 | 3.25 | 4.75 |
| 2.1/2" | 55 | 2.3/4 | 94 | 8.50 | 4.25 | 5.75 |
| 3" | 85 | 3.1/4 | 160 | 9.44 | 4.88 | 6.38 |
| 3.1/2" | 120 | 3.3/4 | 250 | 5.50 | 5.50 | 7.75 |

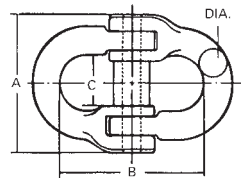
Chain Shackles Bolt Type Galvanized



Hammer Locks

| Dia. | Work Load Limit in Tons | Approx. Weight Each in Pounds | Hammer Locks | | |
|------|-------------------------|-------------------------------|--------------|------|------|
| | | | A | B | C |
| 3/8" | 3 | .44 | 2.28 | 2.36 | .83 |
| 1/2" | 4 | .66 | 2.52 | 2.76 | .89 |
| 5/8" | 5 | 1.17 | 3.03 | 3.35 | 1.12 |
| 3/4" | 8 | 2.20 | 3.66 | 4.13 | 1.30 |
| 7/8" | 13 | 3.37 | 4.29 | 4.88 | 1.57 |
| 1" | 15 | 5.41 | 4.96 | 5.51 | 1.81 |

Hammer Locks Grade 80



Weldable Grab Hook

| Size Rope Dia. | Weldable Grab Hook | | | |
|----------------|--------------------|-----------------------|----------------------------|------------------|
| | Rockwell Hardness | Yield Point in Pounds | Ultimate Failure in Pounds | Weight in Pounds |
| 5/16" | 95.0 | 9,500-10,000 | 12,000 | .375 |
| 1/2" | upon request | upon request | 32,800 | 1.39 |

Weldable Grab Hook Carbon Steel Self Colored

