# ELITE SALES

ONE LINK TO | WIRE ROPE | CHAIN | HARDWARE

# CATALOG2020

CHAIN • WIRE ROPE • ACCESORIES



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# LARGEST INVENTORY

ELITE SALES

ONE LINK TO | WIRE ROPE | CHAIN | HARDWARE

**Elite Sales can meet your needs with our two strategically placed U.S. warehouses.**

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# MIAMI HEADQUARTERS

Elite Sales moved to its Miami Headquarters in 2002 to satisfy its need for more space. Here is where our sales team and all administrate matters are handled. Located close to Miami Airport it is a convenient place for our customers and suppliers to visit us.

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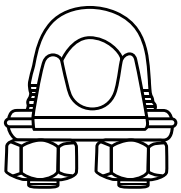
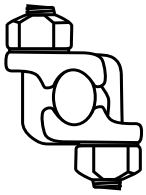
# Safety

ELITE SALES



U-BOLT



FIST GRIP

## WIRE ROPE CLIPS

Wire rope clips are widely used for making end terminations.
Clips are available in two basic designs; the U-Bolt and fist grip. The efficiency of both types is the same.

When using U-Bolt clips, extreme care must be exercised to make certain that they are attached correctly; i.e., the U-Bolt must be applied so that the "U" section is in contact with the dead end of the rope.

Also, the tightening and retightening of the nuts must be accomplished as required.

Use only forged clips for critical, heavy duty, overhead loads, such as support lines, guy lines, towing lines, tie downs, scaffolds, etc.

Malleable clips are to be used for making eye termination assemblies only with right regular lay wire rope and only for light duty uses with small applied loads, such as hand rails, fencing, guard rails, etc.

## HOW TO APPLY U-BOLT CLIPS

Recommended Method of Applying U-Bolt Clips to Get Maximum Holding Power of the Clip.
The following is based on the use of proper size U-Bolt clips on new rope.

1.Turn back specified amount of rope from thimble or loop. Apply first clip one base width from dead end of rope. Apply U-Bolt over dead end of wire rope with live end resting in saddle. Tighten nuts evenly, alternating from one nut to the other until reaching the recommended torque.

2. When two clips are required, apply the second clip as near the loop or thimble as possible. Tighten nuts evenly, alternating until reaching the recommended torque. When more than two clips are required, apply the second clip as near the loop or thimble as possible, turn nuts on second clip firmly, but do not tighten.
Proceed to Step 3.

3. When three or more clips are required, space additional clips equally between first two - take up rope recommended slack - tighten nuts on each U-Bolt evenly, alternating from one nut to the other until reaching recommended torque.

4. Apply first load to test the assembly. This load should be of equal or greater - weight than loads expected in use. Next, check and retighten nuts to recommended torque.

In accordance with good rigging and maintenance practices, the wire rope and termination should be inspected periodically for wear, abuse and general adequacy.

Inspect periodically and retighten to recommended torque.

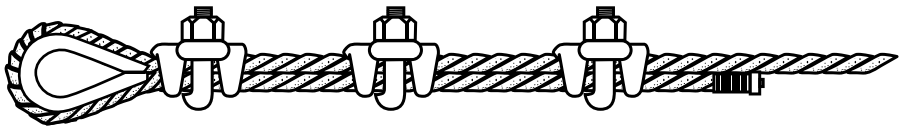
A termination made in accordance with the above instructions and using the number of dips shown, has an approximate 80% efficiency rating. This rating is based upon the nominal strength of wire rope. If a pulley is used in place of a thimble for turning back the rope, add one additional clip.

The number of clips shown is based upon using right regular or lang lay wire rope, 6x19 classification or 6x37 classification, fiber core or IWRC, IPS or EIP. If Seale construction or similar large outer wire type construction in the 6x19 classification, fiber core, IPS, sizes 11/2" and smaller; and right regular lay wire rope, 19x7 classification, IPS or EIP, sizes 1 3/4" and smaller.

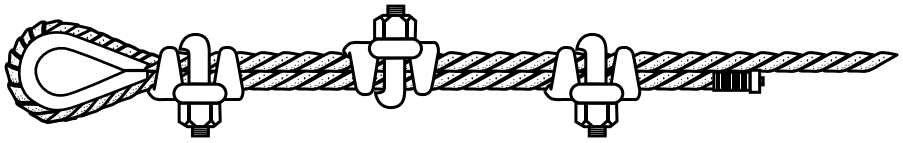
For other classifications of wire rope not mentioned above, it may be necessary to add additional clips to the number shown.

If a greater number of clips are used than shown in the table, the amount of rope turnback should be increased proportionately. ABOVE BASED ON USE OF PROPER SIZE U-BOLT CLIPS ON NEW ROPE.

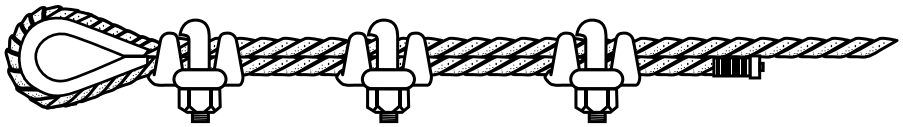
IMPORTANT: Failure to make a termination in accordance with mentioned instructions, or failure to periodically check and retighten to the recommended torque, may cause a reduction in efficiency rating.



**RIGHT WAY FOR MAXIMUM ROPE STRENGTH**



**WRONG WAY: CLIPS STAGGERED**



**WRONG WAY: CLIPS REVERSED**

The correct way to attach U-Bolts is shown at the top; the "U" section is in contact with the dead end of the rope and is clear of the thimble.

## Working Load Limit (WLL)

The Working Load Limit is the maximum load which should ever be applied to the product, even when the product is new and when the load is uniformly applied – straight line pull only. Avoid side loading. Ail catalog ratings are based upon usual environmental conditions and consideration must be given to unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Never exceed the Work ing Load Limit.

## Proof Test Load (Proof Load)

The term "Proof Test" designates a quality control test applied to the product for the sole purpose of detecting defects in material or manufacture. The Proof Test Load (usually twice the Working Load Limit) is the load which the product withstood without deformation when new and under laboratory test conditions. A constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. The Proof Test Load does not mean the Working Load Limit should ever be exceeded.

## Breaking Strength/Ultimate Strength

Do not use breaking strength as a criterion for service or design purposes. Refer to the Working Load Limit instead. Breaking strength is the average force at which the product, in the condition it would leave the factory, has been found by representative testing to break, when a constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. Proof testing to twice the Working Load Limit does not apply to hand-spliced slings. Remember: Breaking Strengths, when published, were obtained under controlled laboratory conditions. Listing of the Breaking Strength does not mean the Working Load Limit should ever be exceeded.

## Design Factor (sometimes referred to as safety factor)

An industry term usually computed by dividing the catalog Breaking Strength by the catalog Working Load Limit and generally expressed as a ratio. For example: 5 to 1.

## Shock Load

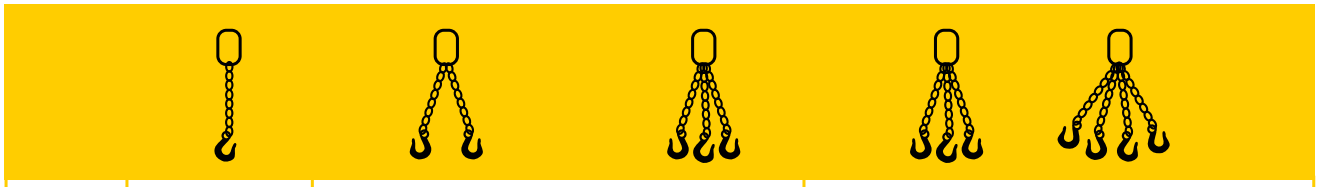
A load resulting from rapid change of movement, such as impacting, jerking or swinging of a static load. Sudden release of tension is another form of shock loading. Shock loads are generally significantly greater than static loads. Any shock loading must be considered when selecting the item for use in a system. Avoid shock loads as they may exceed the Working Load Limit.

Numerical values published for Breaking Strength and Working Load Limit are very specific in one point:

- They refer to straight, in-line pull or force and are obtained under laboratory conditions.
- There are, however, many applications where a straight line pull is not possible or even desirable. When a tackle block system is reeved, wire rope may be bent over many sheaves; multiple leg wire rope or chain slings involve differing lifting angles; angular loads on shackles or eyebolts alter Working Load Limits of the equipment used.
- Ail these and other factors influencing the Working Load Limit must be taken into account when systems are designed and used.
- The following examples and tables are intended to highlight and demonstrate the effects of angles on the Working Load Limit.

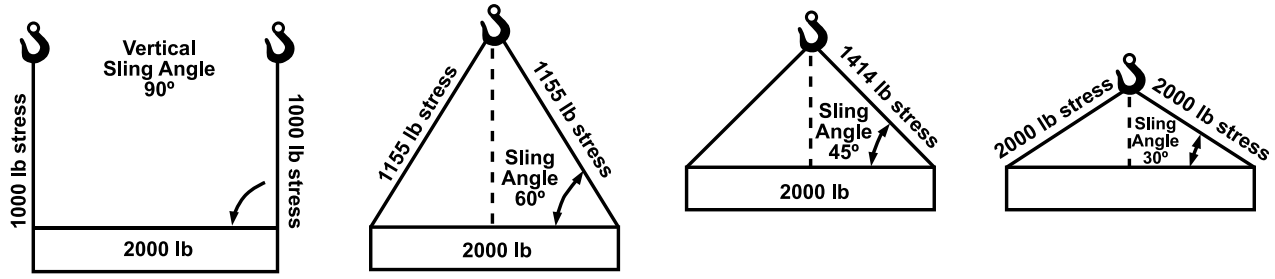
**CHAIN SLINGS,** Fabricated entirely from grade 80 alloy components."

## WORKING LOAD LIMITS – POUNDS



| Chain Size | 90° | 30° | 45° | 60° | 30° | 45° | 60° |
|---|---|---|---|---|---|---|---|
| 9/32" | 3,500 | 3,500 | 4,900 | 6,100 | 5,200 | 7,400 | 9,100 |
| 3/8" | 7,100 | 7,100 | 10,000 | 12,300 | 10,600 | 15,100 | 18,400 |
| 1/2" | 12,000 | 12,000 | 17,000 | 20,800 | 18,000 | 25,500 | 31,200 |
| 5/8" | 18,100 | 18,100 | 25,600 | 31,300 | 27,100 | 38,400 | 47,000 |
| 3/4" | 28,300 | 28,300 | 40,000 | 49,000 | 42,400 | 60,000 | 73,500 |
| 7/8" | 34,200 | 34,200 | 48,400 | 59,200 | 51,300 | 72,500 | 88,900 |

## EFFECT OF ANGLES ON SLING CAPACITIES




The rated capacity of a multiple leg sling is directly affected by the angle of the sling leg with the load. As this angle decreases, the stress on each leg increases with the same load. If the sling angle is known, the capacity can be readily determined by multiplying the sling's vertical capacity by the appropriate load angle factor from the table at right.

| SLING ANGLE | LOAD ANGLE FACTOR |
|---|---|
| 90° (vertical) | 1.000 |
| 75° | .966 |
| 60° | .866 |
| 45° | .707 |
| 30° | .500 |
| 15° | .259 |

**Example:**
A multiple leg sling with a rated capacity of 2000 lb. Will have a reduced capacity of 1000 lb. (2000 x.500) when sling legs are at an angle of 30° with the load.

## RECEIVING, INSPECTION AND STORAGE

For all wire rope, the best time to begin taking appropriate care and handling measures, is immediately upon receiving it. On arrival, the rope should be carefully checked to make certain that the delivered product matches the description on tags, requisition forms, packing slips, purchase order and invoice.

After these necessary preliminary checks, the next concern is that of providing weather-proof storage space. If wire rope is to be kept unused for a considerable time, it must be protected from the elements. The ideal storage area is, a dry, well-ventilated building or shed. Avoid closed, unheated, tightly sealed buildings or enclosures because condensation will form when warm, moist outside (ambient) air envelops the colder rope. Although wire rope is protected by a lubricant, this is not totally effective since condensation can still occur within the small interstices between strands and wires, thereby causing corrosion problems.

On the other hand, if the delivery site conditions preclude storage in an inside space and the rope must be kept outdoors, it should be effectively covered with a waterproof material. Moreover, weeds and tall grass, in the assigned storage area, should be cut away; the reel itself should be placed on an elevated platform that will keep it from direct contact with the ground. Providing an adequate covering for the reel also prevents the original lubricant from drying out and thereby losing its protection.

Never store wire rope in areas subject to elevated temperatures. Dust and grit, or chemically laden atmospheres, are also to be avoided. Although lubricant applied at the factory offers some degree of protection, every normal precautionary measure should be taken with every coil or reel of wire rope.

Whenever wire rope remains in position on an idle machine, crane, hoist, etc., it should be coated with an appropriate protective lubricant. In these circumstances, as with ropes stored outside, moisture, in the form of condensation, rain or snow may form on the wire rope. Some of the moisture may easily become trapped inside the rope and cause corrosion problems.

If the wire rope is to be kept inactive for an extended period while wound on the drum of the idle equipment, it may be necessary to apply a coating of lubricant to each layer as the rope is wound on the drum. Cleaning, inspection and re-lubrication should precede start-up of the equipment.

## WIRE ROPE INSTALLATION – Checking the diameter

It Is most important to check the diameter of the delivered rope before installation. This is to make certain that the rope diameter meets the specified requirements for the given machine or equipment. With an under size diameter rope, stresses will be higher than designed for and the probability of breaking the rope will be increased; an over size diameter rope will wear out prematurely. This happens because of abuse to the rope caused by pinching in the grooves of the sheave and drum.

In checking, however, the actual rope diameter must be measured. And this is defined as the diameter of the circumscribing circle, i.e., its largest cross-sectional dimension. To insure accuracy this measurement should be made with a wire rope caliper using the correct method (b) shown in Fig. 2. For measuring ropes with an odd number of outer strands, special techniques must be employed.

Design specifications for wire rope are such that the diameter is slightly larger than the nominal size, according to the allowable tolerances shown in Table 1.

| Table 1: Oversize Limits of Wire Rope Diameters* | | |
|---|---|---|
| Nominal Rope Diameter | Allowable Limits | |
| Thru 1/8" (3.2mm) | -0 | +8% |
| Over 1/8" (3.2mm) thru 3/16" (4.8mm) | -0 | +7% |
| Over 3/16" (4.8mm) thru 5/16" (8.0mm) | -0 | +6% |
| Over 5/16" (8.0mm) and larger | -0 | +5% |

* These limits have been adopted by the Wire Rope Technical Board (WRTB). In the case of certain special purpose ropes, such as aircraft cables and elevator ropes, each has specific requirements. If a quiestion should arise regarding compliance with oversize tolerances, the eope may be measured under tension of not less than 10% nor more than 20% of the nominal strength.

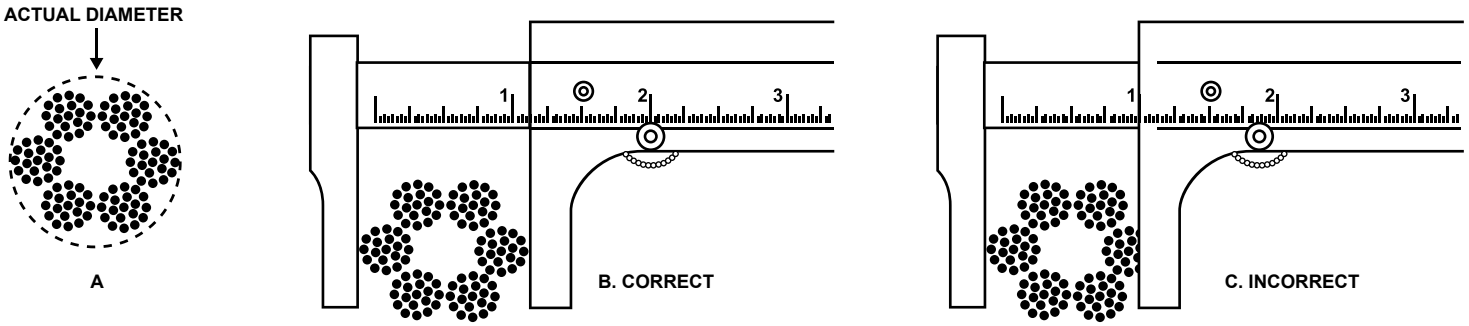



Fig. 2: How to measure (or caliper) a wire rope correctly. Since the "true" diameter (A) lies within the circumscribed circle, always measure the larger dimension (B).

## UNREELING & UNCOILING

Wire rope is shipped in cut lengths, either in coils or on reels. Great care should be taken when the rope is removed from the shipping package since it can be permanently damaged by improper unreeling or uncoiling. Looping the rope over the head of the reel or pulling the rope off a coil while it is lying on the ground, will create loops in the line. Pulling on a loop will, at the very least, produce imbalance in the rope and may result in open or closed kinks (Fig. 3). Once a rope is kinked, the damage is permanent, To correct this condition, the kink must be cut out, and the short ened pieces used for some other purpose.

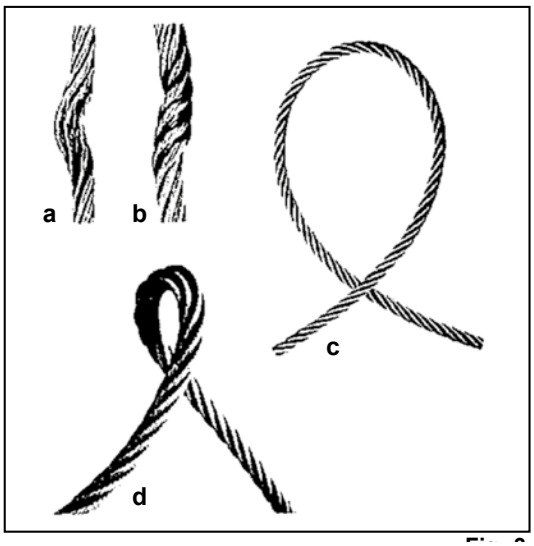



Fig. 3: Improper handling can create open (a) or closed kinks (b). The open link will open the rope lay; the closed kink will close it.

Starting loop (c): Do not allow the rope to form a loop. If, however, a loop does form and is removed at the stage shown, a kink can be avoided.

Kink (d): In this case, the looped rope was put under tension, the kink was formed, the rope is permanently damaged and must be removed.

## General Information About Wire Rope

**STRAND PATTERNS:** They refer to different types of arrangements of wires and their diameters within a strand. Common strand patterns are Filler Wire, Seale, Warrington and combinations thereof.

**LAY:** Indicates how the wires have been laid to form strands and how the strands have been laid around the core. A right regular lay rope (RRL; the most common) has its strands laid right on the rope, similar to threading a right-hand threaded bolt. Regular means that the direction of the wire lay in the strand is opposite to the direction of the strand lay in the rope. (The wires in regular lay rope appear to be in line with the axis of the rope.)

**CAUTION:** When combining separate ropes in a single line application always use ropes of the same lay pattern. Different lays can increase rotation at connection points decreasing rope efficiency.


RiGht Regular Lay (RRL)


RiGht LANG Lay (RLL)


LEFT Regular Lay (LRL)


LEFT LANG Lay (LLL)

**PREFORMING:** A manufacturing process wherein the strands and their wires are permanently formed, during fabrication, the helical shape that they will ultimately assume in the finished wire rope. Proper preforming prevents the strand and wire from unlaying during normal use. The vast majority of wire ripe sold today is preformed.

**FINISH:** Wire rope is either sold as "bright" (or "black"), meaning uncoated, or galvanized for better corrosion resistance. "Drawn Galvanized" wire has the same strength as bright wire, but wire, "galvanized at finished size" is usually 10% lower in strength. Plastic coated wire rope is also available, usually galvanized or stainless steel cable. The most common plastic coverings are vinyl or nylon in either clear or white, although other materials and colors are available. These coating do not add strength to the wire rope itself.

LUBRICATION: During fabrication, wire ropes receive lubrication. The kind and amount depends on the rope's size, type a use, if known. This in-process treatment will provide the finished wire rope with ample protection for a reasonable time if it is stored under proper conditions. But, when the wire rope is put into service, the initial lubrication will normally be less than needed for the full useful life of the wire rope. Because of this, periodic applications of a suitable wire rope lubricant are necessary.

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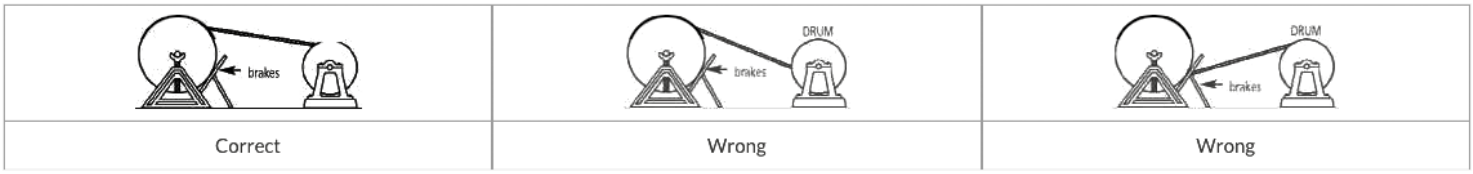
**ORDERING WIRE ROPE:** Construction, lay, core, finish and other factors mentioned above impart greatly differing characteristics to different wire ropes. They must be understood and considered when selecting wire rope. There is no perfect wire rope for all applications; usually some less desirable properties are traded off for other, more desirable one. Refer to the Wire Rope Users Manual by the Wire Rope Technical Board for a better understanding of wire rope properties and consult professional help when in doubt.

Lacking a complete description of the wire rope desired, a supplier can make several assumptions:

1. If direction and type of lay are omitted from the rope description, it is assumed to be right regular lay (RRL).
2. If finish is omitted, this will be presumed to mean ungalvanized, " bright" finish.
3. If no mention is made with reference to preforming, preformed wire rope will be supplied.
4. If a supplier receives an order for 6 x 19 wire rope he may assume this to be a class reference and is, therefore, legally identified in furnishing any construction within this category.

**REREELING WIRE ROPE**




When reeling wire rope from one reel to another it is preferable for the wire rope to travel from top to top, as illustrated. Spooling from bottom to bottom is also acceptale, provided the surface over which the wire rope will travel is clean, smooth and dry, so as not to allow foreign particles to become embedded in the wire rope. Spooling from top to bottom or from bottom to top can put a reverse bend into wire rope and must be avoided. When stringing up a machinery wire rope should be removed from the reel in the same direction a s placed on the drum.

**CUTTING & SEIZING WIRE ROPE**

There are numerous ways to cute wire rope, use only appropriate tools specifically designed to cut wire rope. Safety goggles and work gloves must always be worn. Observe other precautions peculiar to the tools used. Wire rope should be properly seized on both sides of the cut with wire or strand. Seizing wire diameter and the number and length of the seizings will depend on the diameter of the wire rope, and whether or not it is preformed.

**BREAKING IN NEW WIRE ROPE**

Since wire rope is a machine with many moving parts, it requires careful installation and breaking in procedures for maximum safety and long service life. After proper installation, allow the wire rope to run through a cycle of operation at a very low speed. Keep a close watch on the wire rope, its attachments and any working parts such as sheaves, drum, rollers, etc. to make certain that the wire rope runs freely. If no problems appear at this stage, run the wire rope through several cycles of operation under light load at reduced speed. This procedure allows the component parts of the new rope to make a gradual adjustment to the actual operating conditions.

## WIRE ROPE EFFICIENCY

Wire rope will develop 100% efficiency, that is, break at or above minimum acceptance strength (not less than 2 1/2% below nominal breaking strength ) under controlled laboratory conditions.

Once fittings such as sleeves, clips, sockets, etc. are attached and/or the wire rope passes over a curved surface such as sheaves, pins, etc. its strength is decreased. In the case of wire rope passing over a curved surface this decrease in strength depends on the severity of the bend. In the case wire rope fitting, the decrease in wire rope strength will depend on the type of fittings used. The wire rope efficiency usually ranges for 70% – 100%. For more detailed information consult the strength efficiency of wire rope graph on page ## in the _____ section. Note, that hand spliced wire rope, while not using any fittings, has less efficiency than properly flemished and swaged wire rope. There are other factors, depending on the application of wire rope, that can cause a decrease in nominal wire rope strength. They must be considered when choosing a design factor. Refer to the Wire Rope Users Manual and/or other qualified sources for details.

## ELASTIC PROPERTIES OF WIRE ROPE

Wire rope is an elastic member; it stretches or elongates under load. This elongation can be permanent or recoverable. The extent of elongation will depend on the wire rope used and the design factor chosen. While it may be acceptable for many wire rope uses to neglect its elastic properties, they are of critical importance for some uses. When in doubt about the importance of wire rope elongation consult professional help. Pre-stretching wire rope will only remove some of the constructional stretch and will not totally eliminate elongation under load.

## WINDING WIRE ROPE ON DRUMS

Installation of wire rope on a plain or grooved drum requires a great deal of care. Make certain the wire rope is properly attached to the drum. Keep adequate tension on the wire rope as it is wound onto the drum. Guide each wrap as close to the preceding wrap as possible, or follow the groove in case of a grooved drum. No blanket recommendations can be given concerning direction of winding, desirable drum diameter, fleet angle, etc. Consult the Wire Rope Users Manual for this and other important technical information.

## WIRE ROPE SLINGS

Refer to ASME standard B30.9 and OSHA standard 1910.184 for design factors and other important information. Other standards and information may apply.

# Wire Rope Handling And Installation

## RECEIVING, INSPECTION AND STORAGE

For all wire rope, the best time to begin taking appropriate care and handling measures, is immediately upon receiving it. On arrival, the rope should be carefully checked to make certain that the delivered product matches the description on tags, requisition forms, packing slips, purchase order and invoice.

After these necessary preliminary checks, the next concern is that of providing weather-proof storage space. If wire rope is to be kept unused for a considerable time, it must be protected from the elements. The ideal storage area is, a dry, well-ventilated building or shed. Avoid closed, unheated, tightly sealed buildings or enclosures because condensation will form when warm, moist outside (ambient) air envelops the colder rope. Although wire rope is protected by a lubricant, this is not totally effective since condensation can still occur within the small interstices between strands and wires, thereby causing corrosion problems.

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| Over 1/8" (3.2mm) thru 3/16" (4.8mm) | -0 | +7% |
| Over 3/16" (4.8mm) thru 5/16" (8.0mm) | -0 | +6% |
| Over 5/16" (8.0mm) and larger | -0 | +5% |

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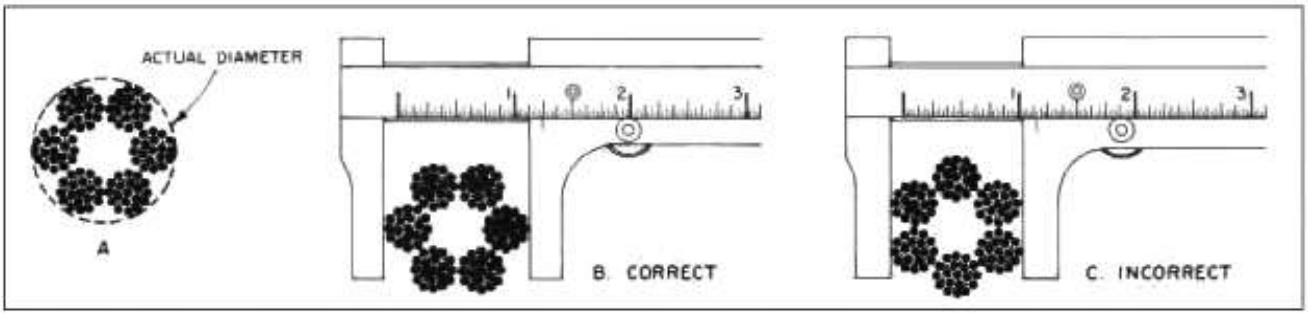



Fig. 2: How to measure (or caliper) a wire rope correctly. Since the "true" diameter (A) lies within the circumscribed circle, always measure the larger dimension (B).

**UNREELING & UNCOILING**

tmp19C1-7Wire rope is shipped incut lenghts, either in coils or on reels. Great care should be taken when the rope is removed from the shipping package since it can be permanently damaged by improper unreeling or uncoiling. Looping the rope over the head of the reel or pulling the rope off a coil while it is lying on the ground, will create loops in hte line. Pulling on a loop will, at the very least, produce imbalance in the rope and may result in open or closed kinks (Fig. 3). Once a rope is kinked, the damage is permanent. To correct this condition, the kink must be cut out, and the shortened pieces used for some other purpose.

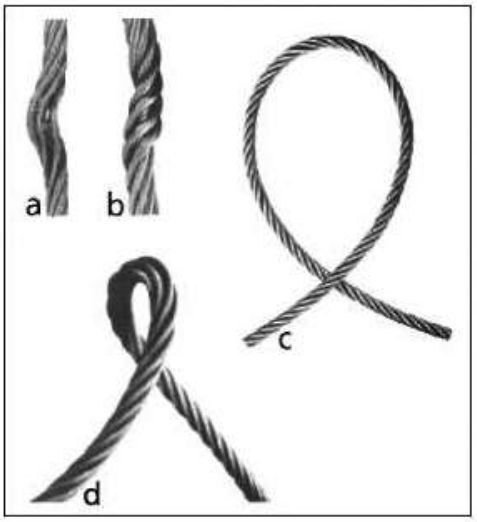



Fig. 3: Improper handling can create open (a) or dosed kinks (b). The open link will open the rope lay; the closed kink will close it.

Starting loop (c): Do not allow the rope to form a loop. If, however, a loop does form and is removed at the stage shown, a kink can be avoided.

Kink (d): In this case, the looped rope was put under tension, the kink was formed, the rope is permanently damaged and must be removed.

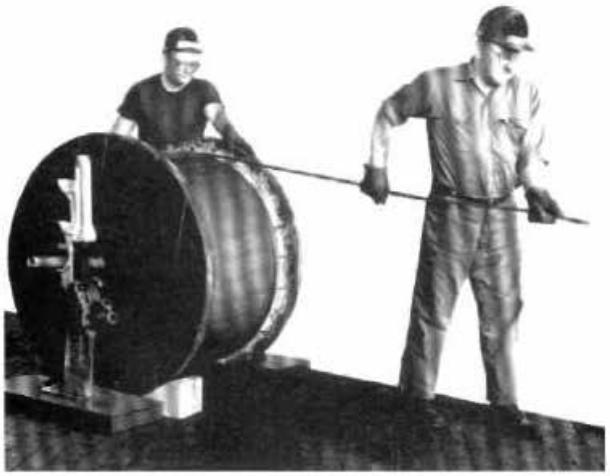


Fig. 3: The wire rope reel is mounted on a shaft supported by jacks. This permits the reel to rotate freely, and the rope can be unwound either manually or be a powered mechanism. When re-reeling wire rope from a horizontally supported reel to a drum it is preferable for the rope to travel from the top of the reel to the top of the drum; or, from the bottom of the reel to the bottom of the drum (Fig. 5). Re-reeling in this manner will avoid putting a reverse bend is induced, it may cause the rope to become "twisty" and, consequently, harder to handle. When unwinding wire rope from a coil, there are two suggested methods for carrying out this procedure in a proper manner: 1) One method involves placing the coil on a vertical unreeling stand. The stand consists of a base with a fixed vertical shaft. On this shaft there is a "swift," consisting of a plate with a inclined pins positioned so that the coil may be placed over them. The whole swift and coil then rotate as the rope is pulled off. This method is particularly effective when the rope is to be wound on a drum. 2) The most common as well as the easiest uncoiling method is merely to hold one end of the rope while rolling the coil along the ground like a hoop (Fig. 6). Figures 7 and 8 show unreeling and uncoiling methods that are most likely to cause kinks. Such improper procedures should definitely be avoided in order to prevent the occurrence of loops. These loops, when pulled taut, will inevitably result in kinks. No matter how a kink develops, it will damage strands and wires, and the kinked section must be cut out. Proper and careful handling will keep the wire rope free from kinks.

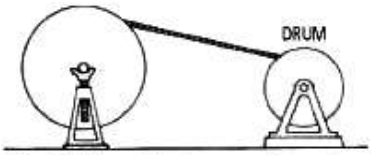
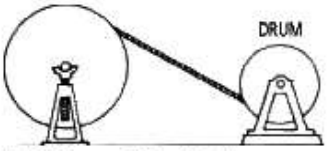



Fig. 4: A vertical unreeling stand. REEL (a) Correct REEL




(b) Wrong Fig. 5: The correct (a) and the wrong (b) way to wind wire rope from reel to drum.

Fig. 6: Perhaps the most common and easiest uncoiling method is to hold one end of the rope while the coil is rolled along the ground.

Fig. 7: Illustrating a wrong method of unreeling wire rope.

Fig. 8: Illustrating a wrong method of uncoiling wire rope.

**INSPECTIONS – Regular inspections**

Inspect products regularly for visible damage, cracks, wear, elongation, rust, etc. Protect all products from corrosion. The need for periodic inspections cannot be overemphasized. No product can keep operating at its rated capacity indefinitely. Periodic inspections help determine when to replace a product and reduce rigging hazards. Keep inspection records to help pinpoint problems and to ensure periodic inspection intervals.

Due to the diversity of the products involved and uses to which they can be put, it would be counterproductive to make blank recommendations for inspection procedures and frequency. Best results will be achieved when qualified personnel base the decision on information from rigging and engineering manuals and on experience from actual use in the field.

Frequency of inspection will depend on environmental conditions, application, storage of product prior to use, frequency of use, etc. When in doubt, inspect products prior to each use. Carefully check each item for wear, deformation, cracks or elongation, a sure sign of imminent failure. Immediately withdraw such items from service.

Rust damage is another potential hazard. When in doubt about the extent of corrosion or other damage, withdraw the item from service.

Destroy, rather than discard, items that have been judged defective. They might be used again by someone not aware of the hazard involved.

Additional warning and information on the wire rope, chain, cordage, blocks and tools can be found preceding each section. These should be read and understood thoroughly before using a particular item.

# Definitions

**Working Load Limit (WLL)**

The Working Load Limit is the maximum load which should ever be applied to the product, even when the product is new and when the load is uniformly applied – straight line pull only. Avoid side loading. All catalog ratings are based upon usual environmental conditions and consideration must be given to unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Never exceed the Working Load Limit.

**Proof Test Load (Proof Load)**

The term "Proof Test" designates a quality control test applied to the product for the sole purpose of detecting defects in material or manufacture. The Proof Test Load (usually twice the Working Load Limit) is the load which the product withstood without deformation when new and under laboratory test conditions. A constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. The Proof Test Load does not mean the Working Load Limit should ever be exceeded.

**Breaking Strength/Ultimate Strength**

Do not use breaking strength as a criterion for service or design purposes. Refer to the Working Load Limit instead. Breaking strength is the average force at which the product, in the condition it would leave the factory, has been found by representative testing to break, when a constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. Proof testing to twice the Working Load Limit does not apply to hand-spliced slings. Remember: Breaking Strengths, when published, were obtained under controlled laboratory conditions. Listing of the Breaking Strength does not mean the Working Load Limit should ever be exceeded.

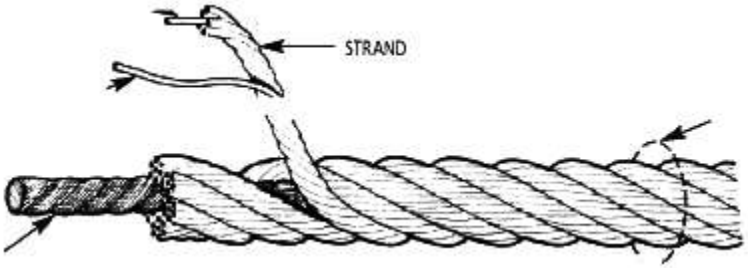
**Design Factor (sometimes referred to as safety factor)**

An industry term usually computed by dividing the catalog Breaking Strength by the catalog Working Load Limit and generally expressed as a ratio. For example: 5 to 1.

**Shock Load**

A load resulting from rapid change of movement, such as impacting, jerking or swinging of a static load. Sudden release of tension is another form of shock loading. Shock loads are generally significantly greater than static loads. Any shock loading must be considered when selecting the item for use in a system. Avoid shock loads as they may exceed the Working Load Limit.

# The Three Basic Components Of a Typical Wire Rope




COMPONENTS: Wire rope consists of three basic components.

1. Wires
2. Strands, formed by wires, laid helically around a core.
3. Core, or center.

**MATERIAL:** Steel grades in wide use today are IPS (improved plow steel) or EIPS (extra improved plow steel), sometimes also referred to as XIPS, XIP, EIP. Stainless steel grades 302/304 and 316 are most common.

CORE: Its function is to provide proper support for the strands under normal conditions. Three types of core (or center) are commonly used.

1. Fiber Core (F.C.), usually polypropylene, sometimes hemp (H.C.) and sisal.
2. Independent Wire Rope Core (IWRC)
3. Wire Strand Core (WSC)

IWRC and WSC are sometimes referred to as steel wire core or steel center.

**CONSTRUCTION:** Expressed in numbers of strands x number of wires. 6 x 25 indicates that the wire rope consists of 6 strands, which in turn have 25 individual wires. Constructions are grouped into classes: 6×7 Class: Containing 6 strands that are made up of 3 through 14 wires, of which no more than 9 are outside wires 6×19 Class: Containing 6 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires. 6 x 37 Class: Containing 6 strands that are made up of 27 through 49 wires, of which no more than 18 are outside wires. 8×19 Class: Containing 8 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires.

19×7 Class: Containing 19 strands, each of which is made up of 7 wires.

8×19 and 19×7 class wire ropes have rotation-resistant properties, excluding elevator ropes.

The construction listed above are just some of the more popular constructions.

Other common constructions:

7 x 7,7 x 19: Galvanized cable. Sometimes referred to as aircraft cable but not intended for aircraft use. 1×7,1×19: Strand 7x7x7, 7x7x19: Cable Laid

Many others exist, some for highly specialized applications only.

Note that any class denotes the nominal number of wires in each strand. The actual number of wires may be different. For example: 6×37 class wire most commonly may consist of 36 wires, or 31, or 41.

# Wire Rope

**Rated Capacity**

Rated capacity is the load which a new wire rope may handle under given operating conditions and at assumed design factor. A design factor of 5 is chosen most frequently for wire rope. (Operating loads not to exceed 20% of catalog Breaking Strength.) Operating loads may have "to be reduced when life, limb or valuable property are at risk or other than new rope is" used. A design factor of 10 is usually chosen when wire rope is used to carry personnel. (Operating loads not to exceed 10% of catalog Breaking Strength.) Responsibility for choosing a design factor rests with the user.

**Attachments must have at least the same Working Load Limit as the wire rope used.**

Clips, sockets, thimbles, sleeves, hooks, links, shackles, sheaves, blocks, etc. must match size, material and strength to provide adequate safety protection. Proper installation is crucial for maximum efficiency and safety.

**Keep out from under a raised load.**

Do not operate load over people. Do not ride on load. Conduct all lifting operations in such a manner that if equipment were to fail or break, no personnel would be injured. This means KEEP OUT FROM UNDER A RAISED LOAD, DO NOT OPERATE LOADS OVER PEOPLE AND KEEP OUT OF THE LINE OF FORCE OF ANY LOAD.

**Avoid shock loads.**

Avoid impacting, jerking or swinging of load. Working Load Limit will not apply in these circumstances because a shock load is generally s ignificantly greater than the static load.

**Inspect wire rope regularly.**

Two of the most important prerequisites for inspecting wire rope are technical knowledge and experience. Check the general condition of the wire rope. Also, look for localized damage and wear, especially at wire rope attachments. Inspect all parts that come in contact with the wire rope. Poor performance of wire rope can often be traced back to worn or wrong-sized sheaves, drums, rollers, etc. Look for kinks, broken wires, abrasions, lack of lubrication, rust damage, crushing, reduction of diameter, stretch or other obvious damage. If any of these conditions exists or if there is any other apparent damage to the wire rope, retire the wire rope according to the instructions below. When in doubt about the extent of the damage, retire the wire rope in question immediately. Without laboratory analysis, it is impossible to determine the strength of damaged or used wire. Thus, you will not be able to tell whether wire rope with any amount of damage is safe to use. Retire the wire rope that is damaged. For specific inspection procedures, check various OSHA and ANSI publications.

**Destroy, rather than discard, wire rope to be retired.**

Wire rope that is not destroyed might be used again by someone not aware of the hazard associated with that use. Destroying wire rope is best done by cutting it up into short pieces.

## Wire Rope Reel Chart

Listed below are some of the most commonly used reels in our inventory and the approximate lengths of wire rope that will fit on the reels.

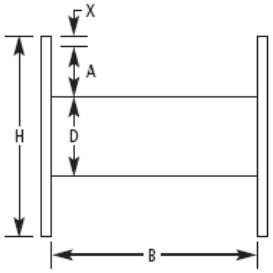
| Reel Size | Reel Size | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HB D | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 3/16 | 3/16 |
| 12 x 6 x 5 | 500 | 300 | 200 | 125 | | | | | | | | |
| 18 x 8 x 8 | 1,800 | 1,200 | 800 | 600 | 300 | | | | | | | |
| 24 x 16 x 12 | 6,400 | 3,900 | 2,600 | 2,000 | 1,200 | 800 | | | | | | |
| 26 x 16 x 12 | 8,300 | 5,100 | 3,400 | 2,600 | 1,550 | 1,000 | 625 | 450 | | | | |
| 28 x 16 x 12 | 10,300 | 6,400 | 4,300 | 3,300 | 1,900 | 1,200 | 800 | 570 | 450 | | | |
| 32 x 16 x 14 | 7,800 | 5,200 | 3,700 | 2,350 | 1,550 | 1,100 | 800 | 600 | 475 | | | |
| 36 x 24 x 16 | 13,900 | 9,400 | 6,700 | 4,200 | 2,750 | 1,950 | 1,400 | 1,100 | 850 | 625 | | |
| 40 x 22 x 18 | | 13,000 | 5,800 | 5,800 | 3,800 | 2,700 | 1,950 | 1,500 | 1,200 | 900 | 725 | |
| 42 x 22 x 18 | 19,300 | 10,000 | 6,250 | 4,100 | 2,900 | 2,100 | 1,600 | 1,300 | 1,000 | 850 | | |

**REEL CAPACITY**

Due to tolerances on diameters and variety of constructions of wire rope, it is difficult to calculate the maximum length of wire rope that can be spooled on a reel or drum. The formula below may be used to calculate reel capacities with at least one wire rope diameter below the flange diameter, for clearance ("X"). Calculated reel capacities are based on uniform rope winding on the reel.

**L = (A + D) x A x B x K**

L = length of wire rope in feet
A = depth of rope space on reel in inches
B = width of drum between flanges in inches
D = barrel diameter in inches
K = constant for given wire rope diameter (per table below)
H = diameter in reel flange in inches
X = clearance




| Diameter (inches) | K | Diameter (inches) | K | Diameter (inches) | K |
|---|---|---|---|---|---|
| 1/16 | 49.8 | 1/2 | 0.925 | 1 3/8 | 0.127 |
| 3/32 | 23.4 | 9/16 | 0.741 | 1 1/2 | 0.107 |
| 1/8 | 13.6 | 5/8 | 0.607 | 1 5/8 | 0.0886 |
| 5/32 | 8.72 | 11/16 | 0.506 | 1 3/4 | 0.0770 |
| 3/16 | 6.14 | 3/4 | 0.428 | 1 7/8 | 0.0675 |
| 7/32 | 4.59 | 13/16 | 0.354 | 2 | 0.0597 |
| 1/4 | 3.29 | 7/8 | 0.308 | 2 1/8 | 0.0532 |
| 5/16 | 2.21 | 1 | 0.239 | 2 1/4 | 0.0476 |
| 3/8 | 1.58 | 1 1/8 | 0.191 | 2 3/8 | 0.0419 |
| 7/16 | 1.19 | 1 1/4 | 0.152 | 2 1/2 | 0.0380 |

## Important Wire Rope Warnings

**WIRE ROPE IS A MACHINE.** Understand and respect it. Like any machine, it needs proper care and maintenance for optimal safety and long service life. For a better understanding of wire rope we highly recommend the Wire Rope Users Manual by the Wire Rope Technical Board. Excerpts of that manual have been reprinted in the wire rope section of this catalog. Refer to the General Warnings on pages (##). These warnings also apply to wire rope. Only additional warning and information are listed below. Rated Capacity

Rated capacity is the load which a new wire rope may handle under given operating conditions and at assumed design factor. A design factor of 5 is chosen most frequently for wire rope. (Operating loads not to exceed 20% of catalog Breaking Strength.) Operating loads may have to be reduced when life, limb or valuable property are at risk or other than new rope is used. A design factor of 10 is usually chosen when wire rope is used to carry personnel. (Operating loads not to exceed 10% of catalog Breaking Strength.) Responsibility for choosing a design factor rests with the user.

Attachments must have at least the same Working Load Limit as the wire rope used.

Clips, sockets, thimbles, sleeves, hooks, links, shackles, sheaves, blocks, etc. must match size, material and strength to provide adequate safety protection. Proper installation is crucial for maximum efficiency and safety.

**Keep out from under a raised load.**

Do not operate load over people. Do not ride on load. Conduct all lifting operations in such a manner that if equipment were to fail or break, no personnel would be injured. This means KEEP OUT FROM UNDER A RAISED LOAD, DO NOT OPERATE LOADS OVER PEOPLE AND KEEP OUT OF THE LINE OF FORCE OF ANY LOAD.

**Avoid shock loads.**

Avoid impacting, jerking or swinging of load. Working Load Limit will not apply in these circumstances because a shock load is generally significantly greater than the static load.

**Inspect wire rope regularly.**

Two of the most important prerequisites for inspecting wire rope are technical knowledge and experience. Check the general condition of the wire rope. Also, look for localized damage and wear, especially at wire rope attachments. Inspect all parts that come in contact with the wire rope. Poor performance of wire rope can often be traced back to worn or wrong-sized sheaves, drums, rollers, etc. Look for kinks, broken wires, abrasions, lack of lubrication, rust damage, crushing, reduction of diameter, stretch or other obvious damage. If any of these conditions exists or if there is any other apparent damage to the wire rope, retire the wire rope according to the instructions below.

When in doubt about the extent of the damage, retire the wire rope in question immediately. Without laboratory analysis, it is impossible to determine the strength of damaged or used wire. Thus, you will not be able to tell whether wire rope with any amount of damage is safe to use. Retire the wire rope that is damaged. For specific inspection procedures, check various OSHA and ANSI publications. Destroy, rather than discard, wire rope to be retired.

Wire rope that is not destroyed might be used again by someone not aware of the hazard associated with that use. Destroying wire rope is best done by cutting it up into short pieces.

Refer to General Information on Wire Rope for important characteristics and properties of wire rope.

**WIRE ROPE IMPORTANT WARNINGS:**
failure to follow warnings and instructions can result in serious injury or death.

Any person using this catalog is responsible to read and understand all warnings, instructions and other information listed below and throughout the remainder of this book. Warnings may be found under or directly adjacent to the product description of the items. Warnings that are specific to a particular product or products will be found at the beginning of each product section.

**All warning and safety information will be highlighted in yellow.**

All products are sold with the express understanding that the person purchasing is thoroughly familiar with their correct application and safe use. Use all products properly, in a safe manner, and only for the application for which the product was manufactured and intended. Elite Sales, Inc. in no way assumes responsibility for any products that is misused or abused. Responsibility for design and use decisions rest solely with the user.

**Remember: Any product will break if abused, misused, overused or not maintained properly. Such breaks can cause loads to fall or swing out of control, possibly resulting in serious injury or death, as well as major property damage.**

Therefore:

Never exceed Working Load Limit (WLL)
Match components properly
Keep out from under a raised load
Avoid shock loads
Inspect products regularly
In order to promote safe rigging habits, the most common hazards associated with these products will be outlined. However, it is impossible to address all possible dangers, misappropriations and circumstance that may arise.

**WORKING LOAD LIMIT**

This term will be used throughout this catalog. There are however, other terms used in the industry which are applicable and are interchangeable with the term Working load Limit. These may be WLL, SWL, Safe Working Load, Rated Load Value, Resulting Safe Working Load, Rated Capacity. Never exceed the Working Load Limit.

The Working Load Limit is the maximum load which should ever be applied to any product even when the product is new and when the load is uniformly applied-straight line pull only. Avoid Side Loading. All catalog ratings are based upon usual environmental conditions, and consideration must be given to the unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Such conditions or high risk applications may necessitate reducing the Working Load Limit. Working Load Limit will not apply if the product has been welded or otherwise modified.

**MATCHING OF COMPONENTS**

Components must match. Make certain that components such as hooks, links or shackles, etc. used with wire rope (or chain or cordage) are of suitable material size and strength to provide adequate safety protection. Attachments must be properly installed and must have the Working Load Limit at least equal to the product with which they are used. Remember: Any chain is only as strong as its weakest link.

**RAISED LOADS**

Keep out from under a raised load. Take special notice of the recommendations issued by the National Safety Council Accident Prevention Manual concerning all lifting operations:

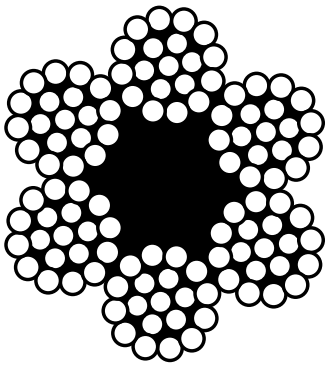
"All employees working cranes or hoists or assisting in hooking or arranging a load should be instructed to keep out from under the load. For a safety standpoint, on factor is paramount: Conduct all lifting operations in such a manner, that if there were an equipment failure, no personnel would be injured. This means keep out form under a raised load and keep out of the line of force of any load."
Do not operate a load over people. Do not ride on load.

**SHOCK LOADS**

Avoid impacting, jerking or swinging of load as the Working Load Limit could be exceeded and the Working Load Limit will not apply. A shock load is generally significantly greater than the static load. Avoid shock loads.

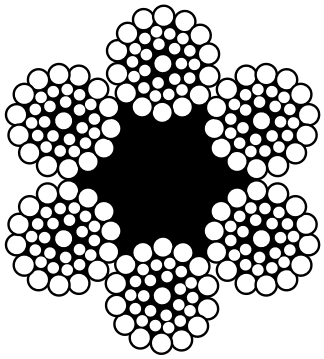
# Wire Rope

ELITE SALES



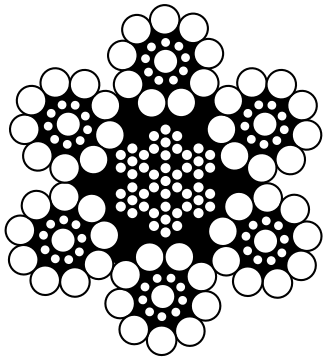
## Bright 6×19 Fiber Core
## Right Regular Lay, I.P.S. Grade
## To Federal Specification RR-W-410

| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.11 | 2.74 |
| 5/16 | 0.16 | 4.26 |
| 3/8 | 0.24 | 6.10 |
| 7/16 | 0.32 | 8.27 |
| 1/2 | 0.42 | 10.70 |
| 9/16 | 0.53 | 13.50 |
| 5/8 | 0.66 | 16.70 |
| 3/4 | 0.95 | 23.80 |
| 7/8 | 1.29 | 32.20 |
| 1 | 1.68 | 41.80 |



## Bright 6×37 Fiber Core
## Right Regular Lay, I.P.S. Grade
## To Federal Specification RR-W-410

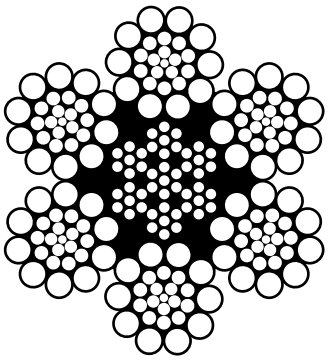
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.11 | 2.74 |
| 5/16 | 0.16 | 4.26 |
| 3/8 | 0.24 | 6.10 |
| 7/16 | 0.32 | 8.27 |
| 1/2 | 0.42 | 10.70 |
| 9/16 | 0.53 | 13.50 |
| 5/8 | 0.66 | 16.70 |
| 3/4 | 0.95 | 23.80 |
| 7/8 | 1.29 | 32.20 |
| 1 | 1.68 | 41.80 |



# Bright 6×19 I.W.R.C.

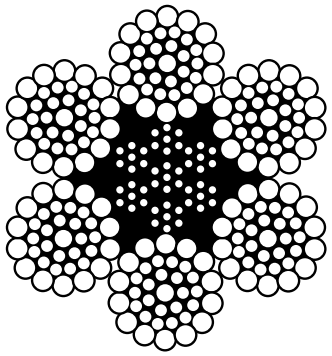
## Right Regular Lay, I.P.S. Grade
## To Federal Specification RR-W-410

| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 2.94 |
| 5/16 | 0.18 | 4.58 |
| 3/8 | 0.26 | 6.56 |
| 7/16 | 0.35 | 8.89 |
| 1/2 | 0.46 | 11.50 |
| 9/16 | 0.59 | 14.50 |
| 5/8 | 0.72 | 17.90 |
| 3/4 | 1.04 | 25.60 |
| 7/8 | 1.42 | 34.60 |
| 1 | 1.85 | 44.90 |
| 1-1/8 | 2.34 | 56.50 |
| 1-1/4 | 2.89 | 69.00 |



# Bright 6×26(WS) I.W.R.C.
# Right Regular Lay, E.I.P.S. Grade
# To Federal Specification RR-W-410

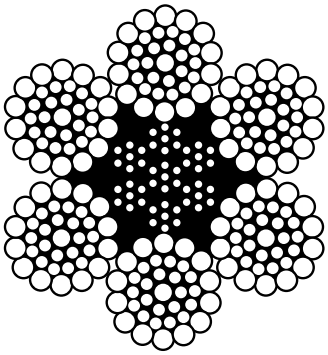
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 3.40 |
| 5/16 | 0.18 | 5.27 |
| 3/8 | 0.26 | 7.55 |
| 7/16 | 0.35 | 10.20 |
| 1/2 | 0.46 | 13.30 |
| 9/16 | 0.59 | 16.80 |
| 5/8 | 0.72 | 20.60 |
| 3/4 | 1.04 | 29.40 |
| 7/8 | 1.42 | 39.80 |
| 1 | 1.85 | 51.70 |
| 1-1/8 | 2.34 | 65.00 |
| 1-1/4 | 2.89 | 79.90 |
| 1-3/8 | 3.50 | 96.00 |
| 1-1/2 | 4.16 | 114.00 |
| 1-5/8 | 4.88 | 132.00 |
| 1-3/4 | 5.67 | 153.00 |
| 2 | 7.39 | 198.00 |
| 2-1/4 | 9.36 | 247.00 |
| 2-3/8 | 10.40 | 274.00 |
| 2-1/2 | 11.60 | 302.00 |
| 2-3/4 | 14.00 | 361.00 |
| 3 | 16.60 | 425.00 |



# Bright 6×36(WS) I.W.R.C.
# Right Regular Lay, E.I.P.S. Grade
# To Federal Specification RR-W-410

| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 3.40 |
| 5/16 | 0.18 | 5.27 |
| 3/8 | 0.26 | 7.55 |
| 7/16 | 0.35 | 10.20 |
| 1/2 | 0.46 | 13.30 |
| 9/16 | 0.59 | 16.80 |
| 5/8 | 0.72 | 20.60 |
| 3/4 | 1.04 | 29.40 |
| 7/8 | 1.42 | 39.80 |
| 1 | 1.85 | 51.70 |
| 1-1/8 | 2.34 | 65.00 |
| 1-1/4 | 2.89 | 79.90 |
| 1-3/8 | 3.50 | 96.00 |
| 1-1/2 | 4.16 | 114.00 |
| 1-5/8 | 4.88 | 132.00 |
| 1-3/4 | 5.67 | 153.00 |
| 2 | 7.39 | 198.00 |
| 2-1/4 | 9.36 | 247.00 |
| 2-1/2 | 11.60 | 302.00 |
| 2-3/4 | 14.00 | 361.00 |
| 3 | 16.60 | 425.00 |

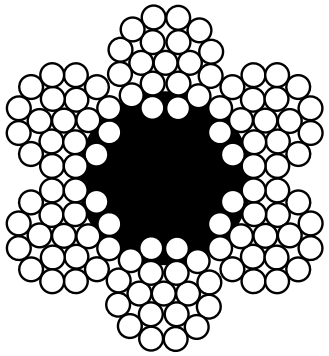
*Some sizes available in E.E.I.P.S.



# Bright 6×37 I.W.R.C.
# Right Regular Lay, E.I.P.S. Grade
# To Federal Specification RR-W-410

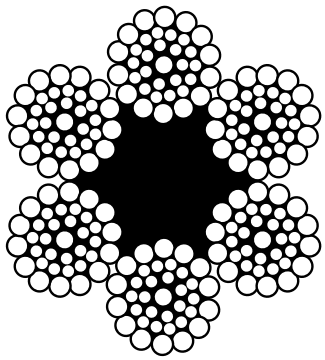
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 3.40 |
| 5/16 | 0.18 | 5.27 |
| 3/8 | 0.26 | 7.55 |
| 7/16 | 0.35 | 10.20 |
| 1/2 | 0.46 | 13.30 |
| 9/16 | 0.59 | 16.80 |
| 5/8 | 0.72 | 20.60 |
| 3/4 | 1.04 | 29.40 |
| 7/8 | 1.42 | 39.80 |
| 1 | 1.85 | 51.70 |

## Galvanized 6×19 Fiber Core
## Right Regular Lay, I.P.S. Grade
## To Federal Specification RR-W-410

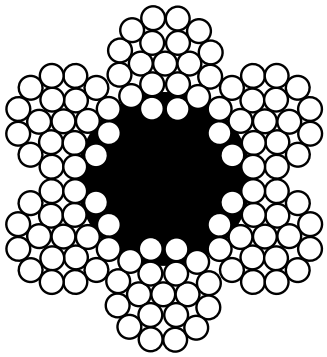


| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.11 | 2.47 |
| 5/16 | 0.16 | 3.83 |
| 3/8 | 0.24 | 5.49 |
| 7/16 | 0.32 | 7.44 |
| 1/2 | 0.42 | 9.63 |
| 9/16 | 0.53 | 12.15 |
| 5/8 | 0.66 | 15.00 |
| 3/4 | 0.95 | 21.40 |
| 7/8 | 1.29 | 29.00 |
| 1 | 1.68 | 37.60 |

## Galvanized 6×37 Fiber Core
## Right Regular Lay, I.P.S. Grade
## To Federal Specification RR-W-410

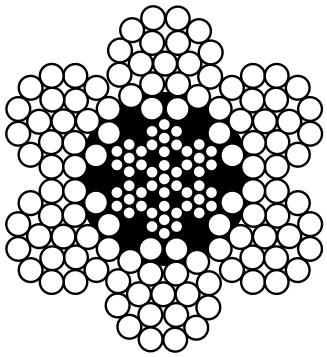


| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.11 | 2.47 |
| 5/16 | 0.16 | 3.83 |
| 3/8 | 0.24 | 5.49 |
| 7/16 | 0.32 | 7.44 |
| 1/2 | 0.42 | 9.63 |
| 9/16 | 0.53 | 12.15 |
| 5/8 | 0.66 | 15.00 |
| 3/4 | 0.95 | 21.40 |
| 7/8 | 1.29 | 29.00 |
| 1 | 1.68 | 37.60 |



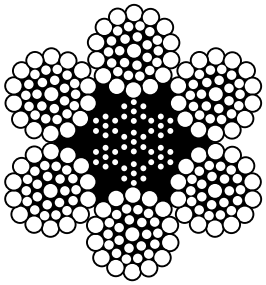
# Galvanized 6×19 I.W.R.C.
# Right Regular Lay, I.P.S. Grade
# To Federal Specification RR-W-410

| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 2.65 |
| 5/16 | 0.18 | 4.12 |
| 3/8 | 0.26 | 5.90 |
| 7/16 | 0.35 | 8.00 |
| 1/2 | 0.46 | 10.35 |
| 9/16 | 0.59 | 13.05 |
| 5/8 | 0.72 | 16.10 |
| 3/4 | 1.04 | 23.00 |
| 7/8 | 1.42 | 31.10 |
| 1 | 1.85 | 40.40 |
| 1-1/8 | 2.43 | 50.90 |
| 1-1/4 | 2.89 | 62.50 |



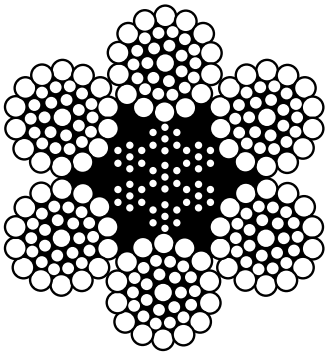
# Drawn Galvanized 6×25 I.W.R.C.
# Right Regular Lay, E.I.P.S. Grade
# To Federal Specification RR-W-410

| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 3.40 |
| 5/16 | 0.18 | 5.27 |
| 3/8 | 0.26 | 7.55 |
| 7/16 | 0.35 | 10.20 |
| 1/2 | 0.46 | 13.30 |
| 9/16 | 0.59 | 16.80 |
| 5/8 | 0.72 | 20.60 |
| 3/4 | 1.04 | 29.40 |
| 7/8 | 1.42 | 39.80 |
| 1 | 1.85 | 51.70 |
| 1 1/8 | 2.43 | 65.00 |
| 1 1/4 | 2.89 | 79.90 |
| 1 3/8 | 3.50 | 96.00 |
| 1 1/2 | 4.16 | 114.00 |
| 1 5/8 | 4.88 | 132.00 |
| 1 3/4 | 5.67 | 153.00 |
| 2 | 7.39 | 198.00 |



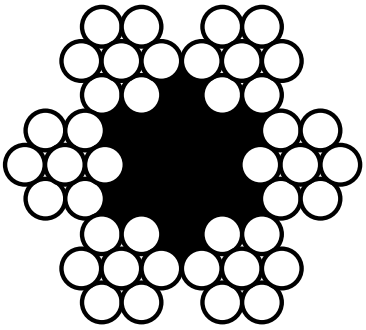
# Drawn Galvanized 6×36(WS) I.W.R.C. Right Regular Lay, E.I.P.S. Grade To Federal Specification RR-W-410

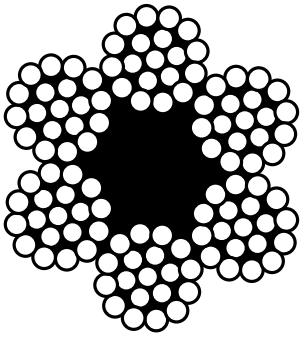
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 3.40 |
| 5/16 | 0.18 | 5.27 |
| 3/8 | 0.26 | 7.55 |
| 7/16 | 0.35 | 10.20 |
| 1/2 | 0.46 | 13.30 |
| 9/16 | 0.59 | 16.80 |
| 5/8 | 0.72 | 20.60 |
| 3/4 | 1.04 | 29.40 |
| 7/8 | 1.42 | 39.80 |
| 1 | 1.85 | 51.70 |
| 1 1/8 | 2.34 | 65.00 |
| 1 1/4 | 2.89 | 79.90 |
| 1 3/8 | 3.50 | 96.00 |
| 1 1/2 | 4.16 | 114.00 |
| 1 5/8 | 4.88 | 132.00 |
| 1 3/4 | 5.67 | 153.00 |
| 2 | 7.39 | 198.00 |
| 2 1/4 | 9.36 | 247.00 |
| 2 1/2 | 11.60 | 302.00 |
| 2 3/4 | 14.00 | 361.00 |
| 3 | 16.60 | 425.00 |
| 3 1/2 | 22.71 | 564.00 |
| 4 | 29.57 | 720.00 |
| 4 1/2 | 37.34 | 889.00 |



# Galvanized 6×37 I.W.R.C.
# Right Regular Lay, I.P.S. Grade
# To Federal Specification RR-W-410

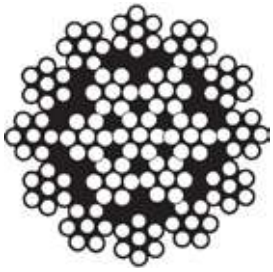
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.12 | 2.65 |
| 5/16 | 0.18 | 4.12 |
| 3/8 | 0.26 | 5.90 |
| 7/16 | 0.35 | 8.00 |
| 1/2 | 0.46 | 10.35 |
| 9/16 | 0.59 | 13.05 |
| 5/8 | 0.72 | 16.10 |
| 3/4 | 1.04 | 23.00 |
| 7/8 | 1.42 | 31.10 |
| 1 | 1.85 | 40.40 |
| 1 1/8 | 2.34 | 50.90 |
| 1 1/4 | 2.89 | 62.50 |
| 1 3/8 | 3.50 | 75.20 |





## Galvanized 6×7 & 6×19 Fiber Core
## Right Regular Lay, I.P.S. Grade
## Heavy D-Lube (Asphalt)
## To Federal Specification RR-W-410

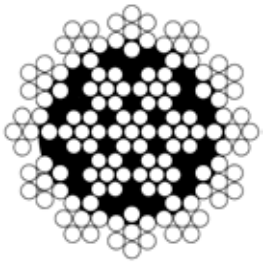
| Diameter in | Construction | Weight Per Foot | Breaking Strength |
|---|---|---|---|
| inches | | in LBS | in Pounds |
| 5/16 | 6x7 | 0.15 | 7,380 |
| 3/8 | 6x7 | 0.21 | 10,540 |
| 7/16 | 6x7 | 0.29 | 14,280 |
| 1/2 | 6x7 | 0.38 | 18,540 |
| 9/16 | 6x7 | 0.48 | 23,400 |
| 5/8 | 6x7 | 0.66 | 28,600 |
| 5/8 | 6x19 | 0.66 | 28,600 |
| 3/4 | 6x19 | 0.95 | 42,800 |



## Bright 19×7 I.W.R.C.

**Right Regular Lay, E.I.P.S. Grade Rotation Resistant Wire Rope To Federal Specification RR-W-410**

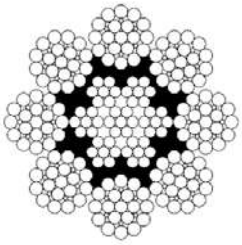
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.11 | 2.77 |
| 5/16 | 0.18 | 4.30 |
| 3/8 | 0.25 | 6.15 |
| 7/16 | 0.35 | 8.33 |
| 1/2 | 0.45 | 10.80 |
| 9/16 | 0.58 | 13.60 |
| 5/8 | 0.71 | 16.80 |
| 3/4 | 1.02 | 24.00 |
| 7/8 | 1.39 | 32.50 |
| 1 | 1.82 | 42.20 |
| 1-1/8 | 2.30 | 53.10 |
| 1-1/4 | 2.85 | 65.10 |



## Drawn Galvanized 19×7 I.W.R.C.

**Right Regular Lay, E.I.P.S. Grade Rotation Resistant Wire Rope To Federal Specification RR-W-410**

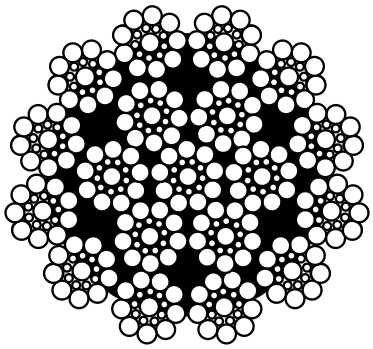
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 1/4 | 0.11 | 2.77 |
| 5/16 | 0.18 | 4.30 |
| 3/8 | 0.25 | 6.15 |
| 7/16 | 0.35 | 8.33 |
| 1/2 | 0.45 | 10.80 |
| 9/16 | 0.58 | 13.60 |
| 5/8 | 0.71 | 16.80 |
| 3/4 | 1.02 | 24.00 |
| 7/8 | 1.39 | 32.50 |
| 1 | 1.82 | 42.20 |
| 1-1/8 | 2.30 | 53.10 |
| 1-1/4 | 2.85 | 65.10 |



## Bright 8×25 I.W.R.C.

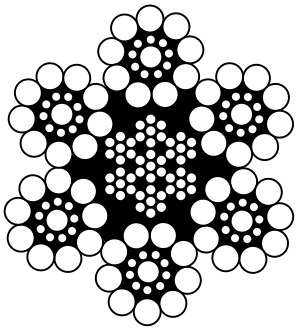
**Right Regular Lay, E.I.P.S. Grade Rotation Resistant Wire Rope To Federal Specification RR-W-410**

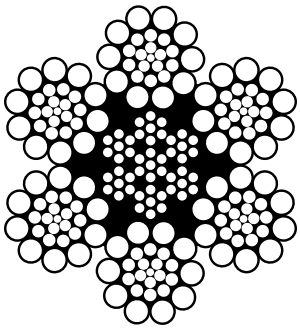
| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| inches | in LBS | in Tons |
| 3/8 | 0.26 | 6.63 |
| 1/2 | 0.47 | 11.60 |
| 9/16 | 0.60 | 14.70 |
| 5/8 | 0.73 | 18.10 |
| 3/4 | 1.06 | 25.90 |



## Bright 19×19(S) I.W.R.C.
## Right Regular Lay, E.E.I.P.S. Grade
## Compacted with C-Lube
## To Federal Speceification RR-W-410 & ASTM A1023/1023W

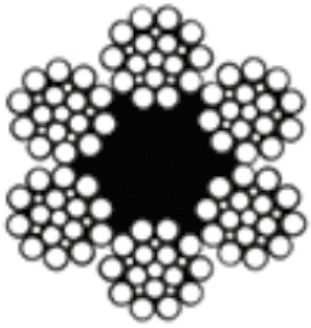
| Diameter in | Construction | Weight Per Foot | Breaking Strength |
|---|---|---|---|
| inches | | in Pounds | in Pounds |
| 1/2 | 19x19(S) | 0.54 | 14.60 |
| 9/16 | 19x19(S) | 0.69 | 18.50 |
| 5/8 | 19x19(S) | 0.85 | 22.70 |
| 3/4 | 19x19(S) | 1.25 | 32.40 |
| 7/8 | 19x19(S) | 1.68 | 43.80 |
| 1 | 19x19(S) | 2.17 | 56.90 |
| 1-1/8 | 19x19(S) | 2.75 | 71.90 |
| 1-1/4 | 19x19(S) | 3.45 | 87.90 |





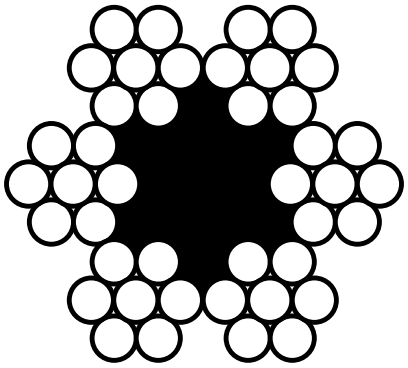
## Bright 6×19(S) & 6×26(WS) I.W.R.C.
## Right Regular Lay, E.I.P.S. Grade
## Rotary/Standard Drill Line with C-Lube
## To Federal Speceification RR-W-410, ASTM A1023/1023W & API-9A

| Diameter in | Construction | Weight Per Foot | Breaking Strength |
|---|---|---|---|
| inches | | in Pounds | in Pounds |
| 7/8 | 6x26(WS) | 1.42 | 79,600 |
| 1 | 6x26(WS) | 1.85 | 103,400 |
| 1 1/4 | 6x19(S) | 2.89 | 159,800 |
| 1 3/8 | 6x19(S) | 3.50 | 192,000 |
| 1 1/2 | 6x19(S) | 4.16 | 228,000 |



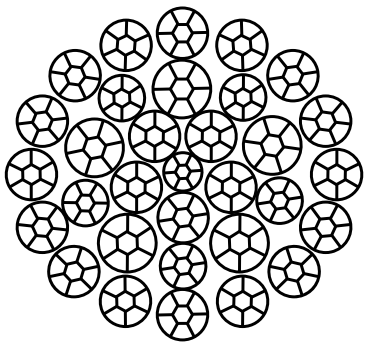
## Bright 6×21 Fiber Core
## Left Regular Lay, E.I.P.S. Grade
## Cable Tool Rig Drill Line
## To Federal Speceification RR-W-410, ASTM A1023/1023W & API-9A

| Diameter in | Construction | Weight Per Foot | Breaking Strength |
|---|---|---|---|
| inches | | in Pounds | in Pounds |
| 3/4 | 6x21 | 0.95 | 52,400 |
| 7/8 | 6x21 | 1.29 | 70,800 |



## Bright 6×7 Fiber Core(P.P.C.)
## Right Regular Lay, I.P.S. Grade
## Sand Line with B-Lube
## To Federal Speceification RR-W-410

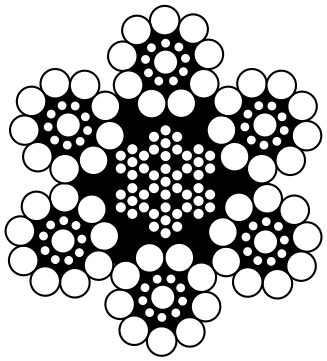
| Diameter in | Construction | Weight Per Foot | Breaking Strength |
|---|---|---|---|
| inches | | in Pounds | in Pounds |
| 1/2 | 6x7 | - | 20,600 |
| 9/16 | 6x7 | - | 28,600 |
| 5/8 | 6x7 | - | 31,800 |



## Drawn Galvanized 35×7 I.W.R.C. Right Hand Lang Lay, 2160 Grade Compacted & Rotation Resistant To Federal Specification RR-W-410

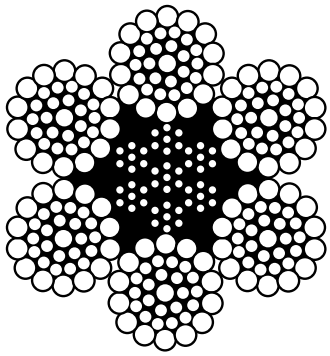
| Size in | Weight Per Foot | Breaking Strength |
|---|---|---|
| mm | in LBS | kN(Kilonewton) |
| 13 | 0.54 | 162 |
| 16 | 0.80 | 251 |
| 18 | 1.01 | 308 |
| 19 | 1.14 | 344 |
| 20 | 1.29 | 382 |
| 22 | 1.56 | 466 |
| 24 | 1.85 | 555 |
| 25.4 | 2.10 | 628 |
| 26 | 2.16 | 660 |
| 28 | 2.55 | 758 |
| 32 | 3.31 | 980 |
| 34 | 3.73 | 1,134 |
| 36 | 4.19 | 1,232 |

*1 kN(Kilonewton) = 224.8 LBS



## Stainless Steel 6×19 I.W.R.C.
## Right Regular Lay
## Type 304 and 316
## To Federal Specification RR-W-410

| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| Inches | in LBS | in Pounds |
| 7/16 | 0.35 | 16,300 |
| 1/2 | 0.46 | 22,800 |
| 9/16 | 0.59 | 28,500 |
| 5/8 | 0.72 | 35,000 |
| 3/4 | 1.04 | 49,600 |
| 7/8 | 1.42 | 66,500 |
| 1 | 1.85 | 85,400 |
| 1-1/8 | 2.40 | 106,400 |
| 1-1/4 | 2.90 | 129,400 |



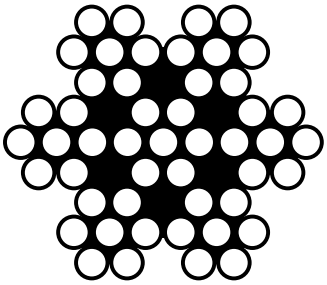
## Stainless Steel 6×36 I.W.R.C.
## Right Regular Lay
## Type 304 and 316
## To Federal Specification RR-W-410

| Diameter in | Weight Per Foot | Breaking Strength |
|---|---|---|
| Inches | in LBS | in LBS |
| 5/16 | 0.18 | 8,300 |
| 3/8 | 0.24 | 11,700 |
| 7/16 | 0.35 | 16,300 |
| 1/2 | 0.46 | 22,800 |
| 9/16 | 0.59 | 28,500 |
| 5/8 | 0.72 | 35,000 |
| 3/4 | 1.04 | 49,600 |
| 7/8 | 1.42 | 66,500 |
| 1 | 1.85 | 85,400 |
| 1-1/8 | 2.34 | 106,400 |
| 1-1/4 | 2.89 | 129,400 |


ELITE
SALES

# Cable

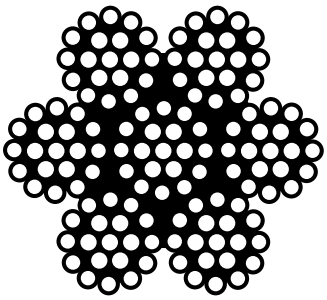
ELITE SALES



## Hot Dipped Galvanized 7×7 Cable

**To Federal Specification RRW-410 & Specification MIL-W-83420**

| Diameter in | Weight Per Thousand Feet | Breaking Strength |
|---|---|---|
| Inches | in LBS | in LBS |
| 1/16 | 7 | 480 |
| 5/64 | 11 | 650 |
| 3/32 | 16 | 920 |
| 1/8 | 28 | 1,700 |
| 5/32 | 43 | 2,600 |
| 3/16 | 62 | 3,700 |
| 1/4 | 106 | 6,100 |

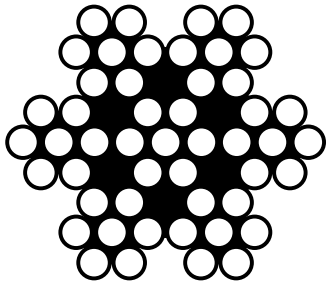


## Hot Dipped Galvanized 7×19 Cable

**To Federal Specification RRW-410 & Specification MIL-W-83420**

| Diameter in | Weight Per Thousand Feet | Breaking Strength |
|---|---|---|
| Inches | in LBS | in LBS |
| 3/32 | 17 | 1,000 |
| 1/8 | 29 | 2,000 |
| 5/32 | 45 | 2,800 |
| 3/16 | 65 | 4,200 |
| 7/32 | 86 | 5,600 |
| 1/4 | 110 | 7,000 |
| 5/16 | 173 | 9,800 |
| 3/8 | 243 | 14,400 |

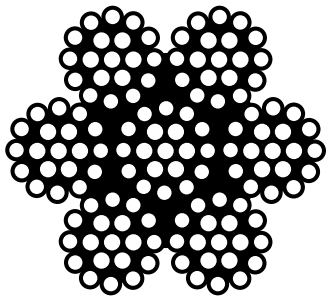
## Hot Dipped Galvanized 7×7



### Clear Vinyl(PVC) Coated Cable To Federal Specification RRW-410 & Specification MIL-W-83420

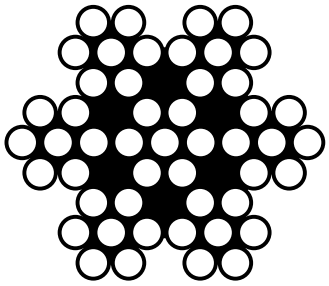
| Wire Diameter | Coated To | Weight per Thousand Feet | Breaking Strength |
|---|---|---|---|
| inches | | in LBS | in LBS |
| 1/16 | 3/32 | 9 | 480 |
| 1/16 | 1/8 | 12 | 480 |
| 3/32 | 1/8 | 18 | 920 |
| 3/32 | 3/16 | 26 | 920 |
| 1/8 | 3/16 | 36 | 1,700 |

## Hot Dipped Galvanized 7×19



### Clear Vinyl(PVC) Coated Cable To Federal Specification RRW-410 & Specification MIL-W-83420

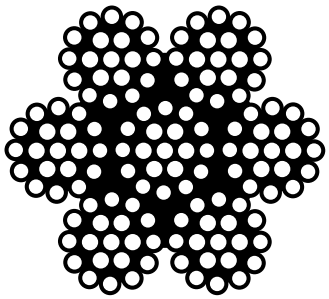
| Wire Diameter | Coated To | Weight per Thousand Feet | Breaking Strength |
|---|---|---|---|
| inches | | in LBS | in LBS |
| 3/32 | 1/8 | 20 | 1,000 |
| 1/8 | 3/16 | 36 | 2,000 |
| 3/16 | 1/4 | 78 | 4,200 |
| 3/16 | 5/16 | 78 | 4,200 |
| 1/4 | 5/16 | 123 | 7,000 |
| 5/16 | 3/8 | 197 | 9,800 |
| 3/8 | 7/16 | 270 | 14,400 |



## Stainless Steel 7×7

### Clear Vinyl(PVC) Coated Cable To Federal Specification RRW-410 & Specification MIL-W-83420

| Wire Diameter | Coated To | Weight per Thousand Feet | Breaking Strength |
|---|---|---|---|
| inches | | in LBS | in LBS |
| 1/16 | 1/8 | 9 | 480 |
| 1/16 | 3/32 | 12 | 480 |
| 3/32 | 1/8 | 19 | 920 |
| 1/8 | 3/16 | 35 | 1,700 |
| 3/16 | 1/4 | 78 | 3,700 |
| 1/4 | 3/8 | 123 | 6,100 |



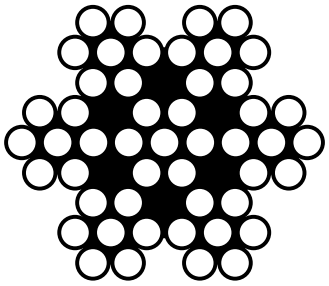
## Stainless Steel 7×19

### Clear Vinyl(PVC) Coated Cable To Federal Specification RRW-410 & Specification MIL-W-83420

| Wire Diameter | Coated To | Weight per Thousand Feet | Breaking Strength |
|---|---|---|---|
| inches | | in LBS | in LBS |
| 1/8 | 3/16 | 36 | 2,000 |
| 3/16 | 1/4 | 78 | 3,700 |
| 1/4 | 5/16 | 123 | 6,400 |
| 5/16 | 3/8 | 197 | 9,000 |
| 3/8 | 7/16 | 270 | 12,000 |

## 7 X 7 Stainless Steel Cable

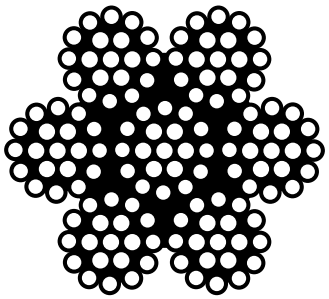
**Type 304 and 316**
**Federal Specification RR-W-410**



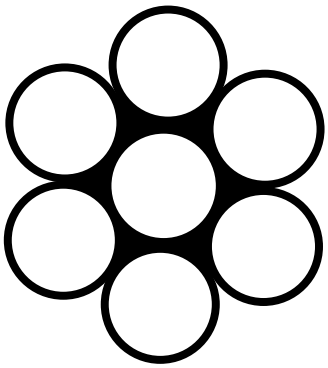
| Diameter in | Weight Per Thousand Feet | Breaking Strength |
|---|---|---|
| Inches | in LBS | in Pounds |
| 3/64 | 4 | 270 |
| 1/16 | 7 | 480 |
| 5/64 | 5 | 650 |
| 3/32 | 16 | 920 |
| 1/8 | 28 | 1,760 |
| 3/16 | 60 | 3,700 |
| 1/4 | 106 | 7,800 |

## 7 X 19 Stainless Steel Cable

**Type 304 and 316**
**Federal Specification RR-W-410**



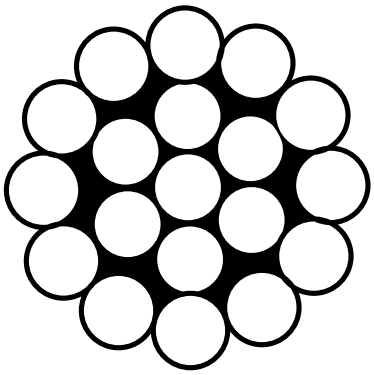
| Diameter in | Weight Per Thousand Feet | Breaking Strength |
|---|---|---|
| Inches | in LBS | in Pounds |
| 3/32 | 17 | 920 |
| 1/8 | 29 | 1,760 |
| 5/32 | 45 | 2,400 |
| 3/16 | 65 | 3,700 |
| 7/32 | 86 | 5,000 |
| 1/4 | 110 | 6,400 |
| 5/16 | 173 | 9,000 |
| 3/8 | 243 | 12,000 |



## Hot Dipped Galvanized 1×7 Steel Strand

### Left Regular Lay, E.H.S.(Extra High Strength Grade) To ASTM A 475 & MIL-DTL-87161

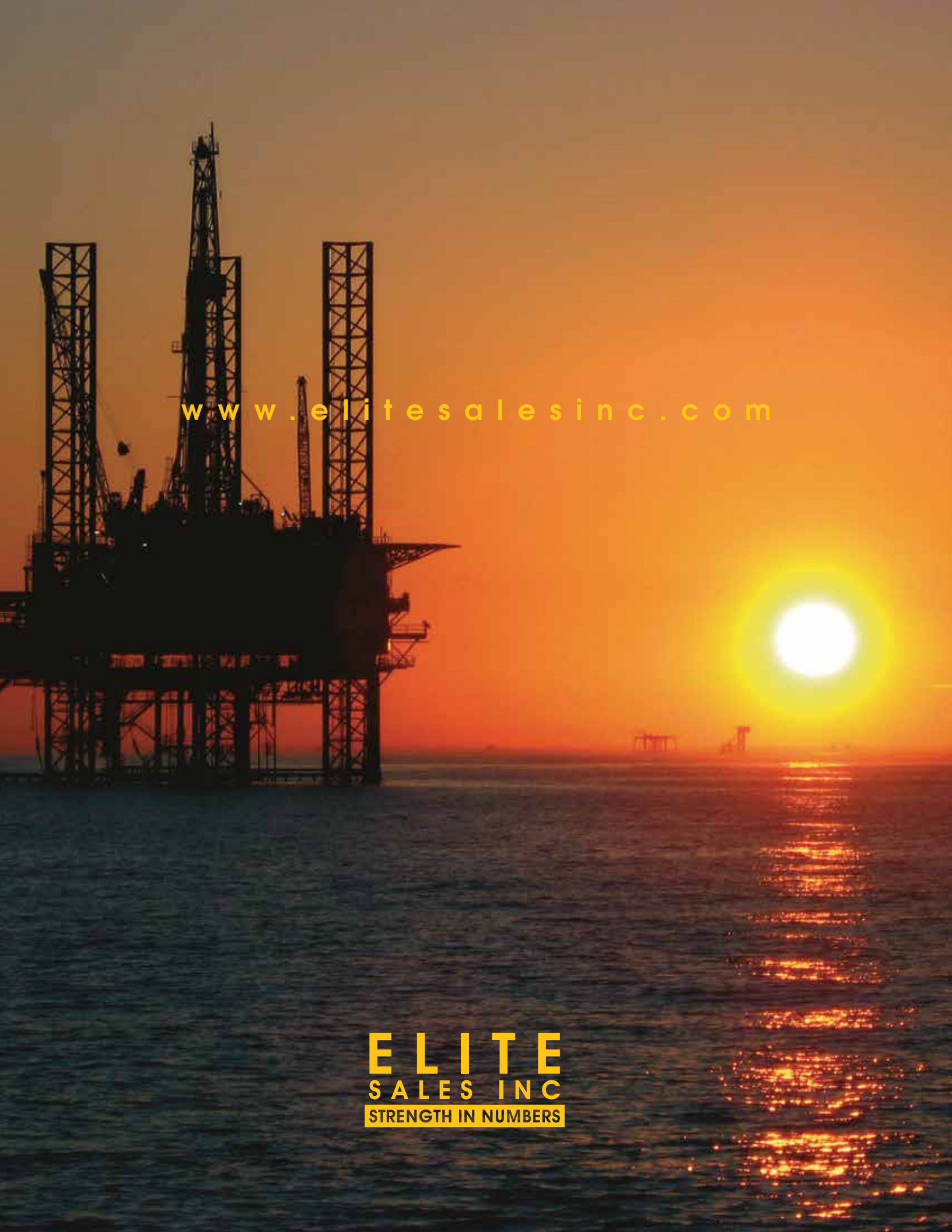
| Diameter in | Weight per Thousand Feet | Breaking Strength | Part No. |
|---|---|---|---|
| inches | in LBS | in Pounds | |
| 3/16 | 73 | 3,990 | 316GS17-C |
| 1/4 | 121 | 6,650 | 14GS17-C |
| 5/16 | 205 | 11,200 | 516GS17-C |
| 3/8 | 273 | 15,400 | 38GS17-C |
| 7/16 | 399 | 20,800 | 716GS17-C |
| 1/2 | 520 | 26,900 | 12GS17-C |



## Stainless Steel 1×19 Steel Strand

### Left Regular Lay, Type 316
### To MIL-DTL-87161

| Diameter in | Weight per Thousand Feet | Breaking Strength | Part No. (Chinese) | Part No. (Korean) |
|---|---|---|---|---|
| inches | in LBS | in Pounds | in Pounds | in Pounds |
| 1/8 | 35 | 1,780 | 18S1916-C | 18S1916-C |
| 5/32 | 55 | 2,800 | 532S1916-C | 532S1916-C |
| 3/16 | 77 | 4,000 | 316S1916-C | 316S1916-C |
| 7/32 | 102 | 5,350 | 732S1916-C | 732S1916-C |
| 3/8 | 135 | 6,900 | 38S1916-C | 38S1916-C |
| 1/4 | 210 | 10,600 | 14S1916-C | 14S1916-C |
| 5/16 | 300 | 14,800 | 516S1916-C | 516S1916-C |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STRENGTH IN NUMBERS

# Chain

ELITE SALES

## Grade 30 Proof Coil Chain

| Nominal Chain Size | | Material Diameter | | Working Load Limit | Proof Load Test | Minimum Breaking Load | Inside Length (MAX.) | | Inside Width (MIN.) | | Weight Per Foot |
|---|---|---|---|---|---|---|---|---|---|---|---|
| in | mm | in | mm | lbs | lbs | lbs | in | mm | in | mm | lbs |
| 1/8 | 4.0 | 0.156 | 4.0 | 400 | 800 | 1,600 | 0.94 | 23.9 | 0.25 | 6.4 | 0.17 |
| 3/16 | 5.5 | 0.217 | 5.5 | 800 | 1,600 | 3,200 | 0.98 | 24.8 | 0.30 | 7.7 | 0.33 |
| 1/4 | 7.0 | 0.276 | 7.0 | 1,300 | 2,600 | 5,200 | 1.24 | 31.5 | 0.38 | 9.8 | 0.63 |
| 5/16 | 8.0 | 0.331 | 8.4 | 1,900 | 3,800 | 7,600 | 1.29 | 32.8 | 0.44 | 11.2 | 0.93 |
| 3/8 | 10.0 | .394 | 10.0 | 2,650 | 5,300 | 10,600 | 1.38 | 35.0 | 0.55 | 14.0 | 1.41 |
| 1/2 | 13.0 | 0.512 | 13.0 | 4,500 | 9,000 | 18,000 | 1.79 | 45.5 | 0.72 | 18.2 | 2.40 |
| 5/8 | 16.0 | 0.630 | 16.0 | 6,900 | 13,800 | 27,600 | 2.20 | 56.0 | 0.79 | 20.0 | 3.58 |
| 3/4 | 20.0 | 0.787 | 20.0 | 10,600 | 21,200 | 42,400 | 2.76 | 70.0 | 0.98 | 25.0 | 5.48 |
| 7/8 | 22.0 | 0.866 | 22.0 | 12,800 | 25,600 | 51,200 | 3.03 | 77.0 | 1.08 | 27.5 | 7.31 |
| 1 | 26.0 | 1.020 | 26.0 | 17,900 | 35,800 | 71,600 | 3.58 | 90.9 | 1.25 | 31.7 | 9.41 |

# Grade 30 Proof Coil Chain

## Self Colored, Zinc Plated & Hot Dipped Galvanized
## All chains manufactured to NACM and/or ASTM(Short Link) specifications

| Size | Working Load Limit | Length Per Full Drum | Length Per Half Drum | Length Per 5 Gallon Pail | Weight Per Foot | Part No. (Full Drum) | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Self Colored | Zinc Plated | Hot Galvanized |
| in. | lbs. | ft. | ft. | ft. | lbs. | | | |
| 1/8 | 400 | 1000 | n/a | n/a | 0.17 | n/a | n/a | 18HG30 |
| 3/16 | 800 | 1500 | 750 | 250 | 0.33 | 316SC30 | 316EG30 | 316HG30 |
| 1/4 | 1,300 | 800 | 400 | 141 | 0.63 | 14SC30 | 14EG30 | 14HG30 |
| 5/16 | 1,900 | 550 | 275 | 92 | 0.93 | 516SC30 | 516EG30 | 516HG30 |
| 3/8 | 2,650 | 400 | 200 | 63 | 1.41 | 38SC30 | 38EG30 | 38HG30 |
| 1/2 | 4,500 | 200 | 100 | 35 | 2.40 | 12SC30 | 12EG30 | 12HG30 |
| 5/8 | 6,900 | 150 | n/a | n/a | 3.58 | 58SC30 | n/a | 58HG30 |
| 3/4 | 10,600 | 100 | n/a | n/a | 5.48 | 34SC30 | n/a | 34HG30 |
| 7/8 | 12,800 | 80 | n/a | n/a | 7.31 | n/a | n/a | 78HG30 |
| 1 | 17,900 | 60 | n/a | n/a | 9.41 | n/a | n/a | 1HG30 |

| Part No. (Half Drum) | | |
|---|---|---|
| Self Colored | Zinc Plated | Hot Galvanized |
| 316SC30/ | 316EG30/ | 316HG30/ |
| 14SC230/ | 14EG30/ | 14HG30/ |
| 516SC30/ | 516EG30/ | 516HG30/ |
| n/a | 38EG30/ | 38HG30/ |
| n/a | 12EG30/ | 12HG30/ |

| Part No. (5 Gallon Pails) | |
|---|---|
| Zinc Plated | Hot Galvanized |
| 14EG30PP | 14HG30PP |
| 516EG30PP | 516HG30PP |
| 38EG30PP | 38HG30PP |
| 12EG30PP | 12HG30PP |

# Long Link Chain – Hot Galvanized
## Grade 30 Proof Coil Chain

| Size | Working Load Limit | Footage Per Drum | Inside Length | Inside Width | Inside Width | Weight Per Foot | Part No. |
|---|---|---|---|---|---|---|---|
| in. | lbs. | ft. | in. | in. | in. | lbs. | |
| 1/2 | 4,500 | 200 | 3.50 | 0.798 | 0.798 | 2.22 | 12HG30LL |
| 5/8 | 6,900 | 100 | 3.75 | 1.00 | 1.00 | 3.41 | 58HG30LL |
| 3/4 | 10,600 | 100 | 3.75 | 1.125 | 1.125 | 4.20 | 34HG30LL |
| 1 | 17,900 | 100 | 4.125 | 1.375 | 1.375 | 10.10 | 1HG30LL |

# Windlass Chain – Grade 43 High Test

## Hot Dipped Galvanized & Stainless Steel
## All chains manufactured to ISO-Short Link specifications

| Size | Inside Length | Inside Width | Weight Per Foot in LBS |
|---|---|---|---|
| 1/4 | 1/4 | 0.40 | 0.74 |
| 5/16 | 5/16 | 0.50 | 1.06 |
| 3/8 | 3/8 | 0.60 | 1.49 |
| 1/2 | 1/2 | 0.77 | 2.53 |

## Hot Dipped Galvanized

| Size | Working Load Limit (LBS) | Part No. |
|---|---|---|
| 1/4 | 2,600 | 14HG43ISO |
| 5/16 | 3,900 | 516HG43ISO |
| 3/8 | 5,400 | 38HG43ISO |
| 1/2 | 9,200 | 12HG43ISO |

## Stainless Steel, Type 316

| Chain Size | Working Load Limit (LBS) | Part No. |
|---|---|---|
| 1/4 | 2,600 | 14SSG40 |
| 5/16 | 3,900 | 516SSG40 |
| 3/8 | 5,400 | 38SSG40 |
| 1/2 | 9,200 | 12SSG40 |

# Grade 43 High Test Chain

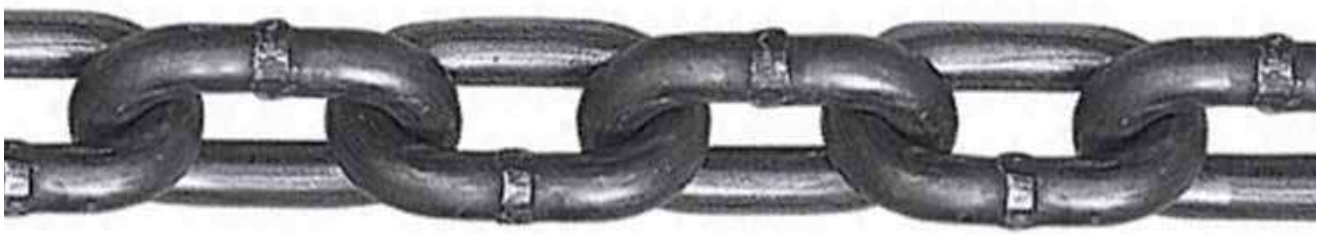
## Self Colored & Hot Dipped Galvanized
## All chains manufactured to NACM specifications

| Size | Working Load Limit | Length Per Drum | Length Per Half Drum | Weight per Foot | Self Colored | Self Colored | Hot Galvanized |
|---|---|---|---|---|---|---|---|
| in. | lbs. | ft. | ft. | lbs. | Full Drums | Half Drums | Full Drums |
| 1/4 | 2,600 | 800 | 400 | 0.63 | 14SC43 | 14SC43/ | 14HG43 |
| 5/16 | 3,900 | 550 | 275 | 0.93 | 516SC43 | n/a | 516HG43 |
| 3/8 | 5,400 | 400 | 200 | 1.41 | 38SC43 | 38SC43/ | 38HG43 |
| 1/2 | 9,200 | 200 | 100 | 2.40 | 12SC43 | n/a | 12HG43 |
| 5/8 | 11,500 | 150 | 75 | 3.58 | 58SC43 | n/a | 58HG43 |
| 3/4 | 16,200 | 100 | 50 | 5.48 | 34SC43 | n/a | 34HG43 |

# Grade 43 High Test Chain

## 20’ Binding/Boomer Chains w/ Clevis Grab Hooks at each end Self Colored Chain w/ Self Colored Hooks

| Size | Working Load Limit | Weight Per Piece | Part No. |
|---|---|---|---|
| in. | lbs. | lbs. | |
| 1/4" x 20ft. | 2,600 | 13.50 | 14SC43BC20 |
| 5/16" x 20ft | 3,900 | 20.00 | 516C43BC20 |
| 3/8" x 20ft. | 5,400 | 30.50 | 38C43BC20 |



## Grade 43 High Test Chain

| Nominal Chain Size | | Material Diameter | | Working Load Limit | Proof Load Test | Minimum Breaking Load | Inside Length (MAX.) | | Inside Width (MIN.) | | Weight Per Foot |
|---|---|---|---|---|---|---|---|---|---|---|---|
| in | mm | in | mm | lbs | lbs | lbs | in | mm | in | mm | lbs |
| 1/4 | 7.0 | 0.276 | 7.0 | 2,600 | 3,900 | 7,800 | 1.24 | 31.5 | 0.38 | 9.8 | 0.63 |
| 5/16 | 8.7 | 0.343 | 8.7 | 3,900 | 5,850 | 11,700 | 1.29 | 32.8 | 0.44 | 11.2 | 0.93 |
| 3/8 | 10.0 | 0.406 | 10.3 | 5,400 | 8,100 | 16,200 | 1.38 | 35.0 | 0.55 | 14.0 | 1.41 |
| 1/2 | 13.0 | 0.531 | 13.5 | 9,200 | 13,800 | 27,600 | 1.79 | 45.5 | 0.72 | 18.2 | 2.40 |
| 5/8 | 16.0 | 0.630 | 16.0 | 13,000 | 19,500 | 39,000 | 2.20 | 56.0 | 0.79 | 20.0 | 3.58 |
| 3/4 | 20.0 | 0.787 | 20.0 | 20,200 | 30,300 | 60,600 | 2.76 | 70.0 | 0.98 | 25.0 | 5.48 |

# Stainless Steel Chain

## Grade 43 High Test Chain
## All chains manufactured to NACM specifications

| Size | Working Load Limit | Length Per Drum | Weight Per Foot | Part No. | |
|---|---|---|---|---|---|
| | lbs. | ft. | lbs. | Type 304 | Type 316 |
| 1/8 | 620 | 1,000 | 0.17 | 18SSC304 | 18SSC316 |
| 3/16 | 1,200 | 1,500 | 0.38 | 316SSC304 | 316SSC316 |
| 1/4 | 2,600 | 800 | 0.61 | 14SSC304 | 14SSC316 |
| 5/16 | 3,900 | 550 | 0.84 | 516SSC304 | 516SSC316 |
| 3/8 | 5,400 | 400 | 1.40 | 38SSC304 | 38SSC316 |
| 1/2 | 9,200 | 200 | 2.34 | 12SSC304 | 12SSC316 |
| 5/8 | 13,000 | 150 | 3.58 | 58SSC304 | 58SSC316 |
| 3/4 | 20,200 | 100 | 5.51 | 34SSC304 | 34SSC316 |
| 1 | 23,250 | 60 | 9.41 | 1SSC304 | 1SSC316 |

## Grade 70 Transport Chain

| Nominal Chain Size | | Material Diameter | | Working Load Limit | Proof Load Test | Minimum Breaking Load | Inside Length (MAX.) | | Inside Width (MIN.) | | Weight Per Foot |
|---|---|---|---|---|---|---|---|---|---|---|---|
| in | mm | in | mm | lbs | lbs | lbs | in | mm | in | mm | lbs |
| 1/4 | 7.0 | 0.281 | 7.0 | 3,150 | 6,300 | 12,600 | 1.24 | 31.5 | 0.38 | 9.8 | 0.63 |
| 5/16 | 8.7 | 0.343 | 8.7 | 4,700 | 9,400 | 18,800 | 1.29 | 32.8 | 0.44 | 11.2 | 0.93 |
| 3/8 | 10.0 | 0.406 | 10.3 | 6,600 | 13,200 | 26,400 | 1.38 | 35.0 | 0.55 | 14.0 | 1.41 |
| 1/2 | 13.0 | 0.531 | 13.5 | 11,300 | 22,600 | 45,200 | 1.79 | 45.5 | 0.72 | 18.2 | 2.40 |
| 5/8 | 16.0 | 0.630 | 16.0 | 15,800 | 31,600 | 63,200 | 2.20 | 56.0 | 0.79 | 20.0 | 3.75 |

# Grade 70 Transport Chain

## Yellow Zinc Chromate
## All chains manufactured to NACM specifications

| Size | Working Load Limit | Length Per Full Drum | Length Per Half Drum | Weight per Foot | Part No. | |
|---|---|---|---|---|---|---|
| | lbs. | ft. | ft. | lbs. | Full Drum | Half Drums |
| 1/4 | 3,150 | 800 | n/a | 0.63 | 14SCG70C | n/a |
| 5/16 | 4,700 | 550 | n/a | 0.93 | 516SCG70C | n/a |
| 3/8 | 6,600 | 400 | 200 | 1.41 | 38SCG70C | 38SCG70/C |
| 1/2 | 11,300 | 200 | n/a | 2.40 | 12SCG70C | n/a |
| 5/8 | 15,800 | 100 | n/a | 3.75 | 58SCG70C | n/a |

# Grade 70 Transport Chain

## 20’ Binding/Boomer Chains w/ Clevis Grab Hooks at each end
## Yellow Zinc Chromate Chain w/ Yellow Zinc Chromate Hooks

| Size | Working Load Limit | Weight per Piece | Part No. |
|---|---|---|---|
| | lbs. | lbs. | |
| 5/16 X 20' | 4,700 | 20 | 516SCG70BC20 |
| 3/8 X 20' | 6,600 | 31 | 38SCG70BC20 |
| 1/2 X 20' | 11,300 | 57 | 12SCG70BC20 |

# Grade 80 Alloy Chain (for Overhead Lifting)

## Black Laquer Finish
## All chains manufactured to NACM specifications

| Size | Working Load Limit | Feet Per Drum | Minimum Weight Per Foot | Part No. |
|---|---|---|---|---|
| | lbs | ft | lbs | |
| 9/32 | 3,500 | 800 | 0.71 | 932G80CH |
| 5/16 | 4,500 | 500 | 0.92 | 516G80CH |
| 3/8 | 7,100 | 500 | 1.44 | 38G80CH |
| 1/2 | 12,000 | 300 | 2.36 | 12G80CH |
| 5/8 | 18,100 | 200 | 3.76 | 58G80CH |
| 3/4 | 28,300 | 100 | 5.50 | 34G80CH |
| 7/8 | 34,200 | 100 | 7.12 | 78G80CH |
| 1 | 47,700 | 100 | 9.65 | 1G80CH |

# Grade 80 Alloy Chain (for Overhead Lifting)

| Nominal Chain Size | | Material Diameter | | Working Load Limit | Proof Load Test | Minimum Breaking Load | Inside Length (MAX.) | | Inside Width Range | | Weight Per Foot |
|---|---|---|---|---|---|---|---|---|---|---|---|
| in | mm | in | mm | lbs | lbs | lbs | in | mm | in | mm | lbs |
| 9/32 | 7.0 | 0.276 | 7.0 | 3,500 | 7,000 | 14,000 | 0.90 | 22.9 | 0.375 - 0.430 | 9.53 - 10.92 | 0.71 |
| 5/16 | 8.0 | 0.315 | 8.0 | 4,500 | 9,000 | 18,000 | 1.04 | 26.4 | 0.430 - 0.500 | 10.92 - 12.70 | 0.92 |
| 3/8 | 10.0 | 0.394 | 10.0 | 7,100 | 14,200 | 28,400 | 1.26 | 32.0 | 0.512 - 0.600 | 13.00 - 15.20 | 1.44 |
| 1/2 | 13.0 | 0.512 | 13.0 | 12,000 | 24,000 | 48,000 | 1.64 | 41.6 | 0.688 - 0.768 | 17.48 - 19.50 | 2.36 |
| 5/8 | 16.0 | 0.63 | 16.0 | 18,100 | 36,200 | 72,400 | 2.02 | 51.2 | 0.812 - 0.945 | 20.63 - 24.00 | 3.76 |
| 3/4 | 20.0 | 0.787 | 20.0 | 28,300 | 56,600 | 113,200 | 2.52 | 64.0 | 0.984 - 1.180 | 25.00 - 30.00 | 5.50 |
| 7/8 | 22.0 | 0.866 | 22.0 | 34,200 | 68,400 | 136,800 | 2.77 | 70.4 | 1.080 - 1.300 | 27.50 - 33.00 | 7.12 |
| 1 | 26.0 | 1.020 | 26.0 | 47,700 | 95,400 | 190,800 | 3.28 | 83.2 | 1.280 - 1.540 | 32.50 - 39.00 | 9.65 |

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# Hardware

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## Wire Rope Alloy Blocks

### Alloy Snatch Blocks, Bronze Bushed, with Hook ASME B30.26

| Sheave Dia | Working Load Limit | Weight Per Piece | Rope Dia | Top Fitting | Part No. |
|---|---|---|---|---|---|
| in | lbs | lbs | in | | |
| 6 | 12 | 26 | 3/4" - 7/8" | Hook | WR6SBAH |
| 8 | 12 | 33 | 3/4" - 7/8" | Hook | WR8SBAH |
| 10 | 12 | 41 | 3/4" - 7/8" | Hook | WR10SBAH |

## Wire Rope Alloy Blocks

### Alloy Snatch Blocks, Bronze Bushed, with Shackle ASME B30.26

| Sheave Dia | Working Load Limit | Weight Per Piece | Rope Dia | Top Fitting | Part No. |
|---|---|---|---|---|---|
| in | lbs | lbs | in | | |
| 6 | 12 | 27 | 3/4" - 7/8" | Shackle | WR6SBA |
| 8 | 12 | 34 | 3/4" - 7/8" | Shackle | WR8SBA |
| 10 | 12 | 42 | 3/4" - 7/8" | Shackle | WR10SBA |

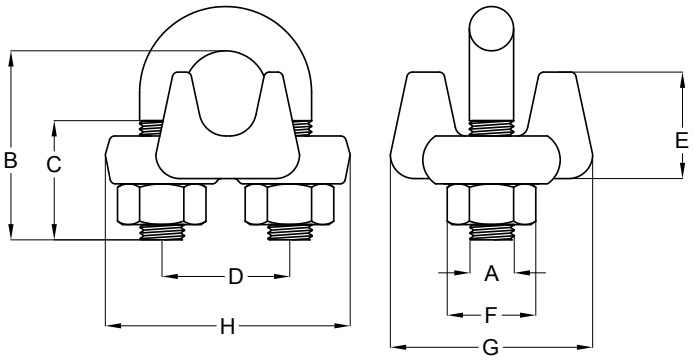
# Wire Rope Blocks

## Snatch Blocks, Bronze Bushed, with Hook
## ASME B30.26

| Sheave Dia | Working Load Limit | Weight Per Piece | Rope Dia | Top Fitting | Part No. |
|---|---|---|---|---|---|
| in | lbs | lbs | in | | |
| 3 | 2 | 4 | 5/16" - 3/8" | Hook | WR3SBH |
| 4 1/2 | 4 | 12 | 3/8" - 1/2" | Hook | WR412SBH |
| 6 | 8 | 28 | 5/8" - 3/4" | Hook | WR6SBH |
| 8 | 8 | 34 | 5/8" - 3/4" | Hook | WR8SBH |
| 10 | 8 | 42 | 5/8" - 3/4" | Hook | WR10SBH |
| 10 | 20 | 89 | 1-1/8" | Hook | WR10SBHDH |
| 12 | 20 | 103 | 1" | Hook | WR12SBHDH |

## Snatch Blocks, Bronze Bushed, with Shackle
## ASME B30.26

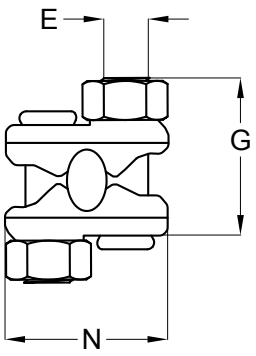
| Sheave Dia | Working Load Limit | Weight Per Piece | Rope Dia | Top Fitting | Part No. |
|---|---|---|---|---|---|
| in | lbs | lbs | in | | |
| 3 | 2 | 5 | 5/16" - 3/8" | Shackle | WR3SB |
| 4 1/2 | 4 | 12 | 3/8" - 1/2" | Shackle | WR412SB |
| 6 | 8 | 27 | 5/8" - 3/4" | Shackle | WR6SB |
| 8 | 8 | 33 | 5/8" - 3/4" | Shackle | WR8SB |
| 10 | 8 | 41 | 5/8" - 3/4" | Shackle | WR10SB |
| 10 | 20 | 101 | 1-1/8" | Shackle | WR10SBHD |
| 12 | 20 | 115 | 1" | Shackle | WR12SBHD |

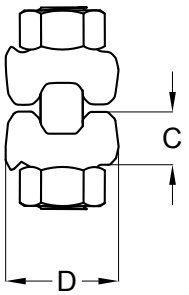



# Drop Forged Wire Rope Clips

## Hot Dipped Galvanized
## To Federal Specification FF-C-450, Type 1, Class 1

| Rope Size | Weight Per Piece | Dimensions (in) | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | |
| in | lbs | | | | | | | | | |
| 1/8 | 0.06 | 0.22 | 0.72 | 0.44 | 0.47 | 0.37 | 0.38 | 0.81 | 0.99 | DFC18 |
| 3/16 | 0.10 | 0.25 | 0.97 | 0.56 | 0.59 | 0.50 | 0.44 | 0.94 | 1.18 | DFC316 |
| 1/4 | 0.19 | 0.31 | 1.03 | 0.50 | 0.75 | 0.66 | 0.56 | 1.19 | 1.43 | DFC14 |
| 5/16 | 0.28 | 0.38 | 1.38 | 0.75 | 0.88 | 0.73 | 0.69 | 1.31 | 1.66 | DFC516 |
| 3/8 | 0.48 | 0.44 | 1.50 | 0.75 | 1.00 | 0.91 | 0.75 | 1.63 | 1.94 | DFC38 |
| 7/16 | 0.78 | 0.50 | 1.88 | 1.00 | 1.19 | 1.13 | 0.88 | 1.91 | 2.28 | DFC716 |
| 1/2 | 0.80 | 0.50 | 1.88 | 1.00 | 1.19 | 1.13 | 0.88 | 1.91 | 2.28 | DFC12 |
| 9/16 | 1.09 | 0.56 | 2.25 | 1.25 | 1.31 | 1.34 | 0.94 | 2.06 | 2.50 | DFC916 |
| 5/8 | 1.10 | 0.56 | 2.25 | 1.25 | 1.31 | 1.34 | 0.94 | 2.06 | 2.50 | DFC58 |
| 3/4 | 1.42 | 0.62 | 2.75 | 1.44 | 1.50 | 1.39 | 1.06 | 2.25 | 2.84 | DFC34 |
| 7/8 | 2.12 | 0.75 | 3.12 | 1.62 | 1.75 | 1.58 | 1.25 | 2.44 | 3.16 | DFC78 |
| 1 | 2.52 | 0.75 | 3.50 | 1.81 | 1.88 | 1.77 | 1.25 | 2.63 | 3.47 | DFC1 |
| 1-1/8 | 2.83 | 0.75 | 3.88 | 2.00 | 2.00 | 1.91 | 1.25 | 2.81 | 3.59 | DFC118 |
| 1-1/4 | 4.38 | 0.88 | 4.44 | 2.22 | 2.31 | 2.17 | 1.44 | 3.13 | 4.13 | DFC114 |
| 1-3/8 | 4.42 | 0.88 | 4.44 | 2.22 | 2.38 | 2.31 | 1.44 | 3.13 | 4.19 | DFC138 |
| 1-1/2 | 5.44 | 0.88 | 4.94 | 2.38 | 2.59 | 2.44 | 1.44 | 3.41 | 4.44 | DFC112 |
| 1-5/8 | 7.04 | 1.00 | 5.31 | 2.62 | 2.75 | 2.66 | 1.63 | 3.63 | 4.75 | DFC158 |
| 1-3/4 | 9.34 | 1.13 | 5.75 | 2.75 | 3.06 | 2.92 | 1.81 | 3.81 | 5.24 | DFC134 |
| 2 | 13.00 | 1.25 | 6.44 | 3.00 | 3.38 | 3.28 | 2.00 | 4.44 | 5.88 | DFC2 |
| 2-1/4 | 16.00 | 1.25 | 7.13 | 3.19 | 3.88 | 3.19 | 2.00 | 4.56 | 6.38 | DFC214 |
| 2-1/2 | 19.00 | 1.25 | 7.69 | 3.44 | 4.13 | 3.69 | 2.00 | 4.69 | 6.63 | DFC212 |

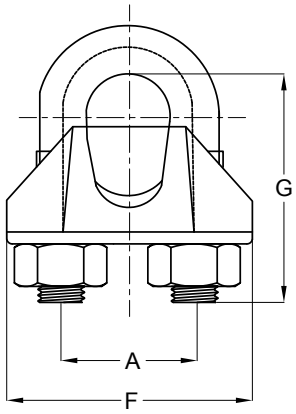


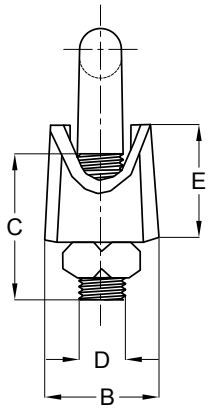




# Drop Forged Fist Grip Wire Rope Clips

## Hot Dipped Galvanized
## To Federal Specification FF-C-450 Type 3, Class 1

| Size | Weight Per Piece in | Dimensions (in) | | | | | Part No. |
|---|---|---|---|---|---|---|---|
| | | C | D | E | G | N | |
| in | lbs | | | | | | |
| 5/16 | 0.28 | 0.47 | 1.06 | 0.38 | 1.50 | 1.54 | DF516FG |
| 3/8 | 0.40 | 0.51 | 1.06 | 0.44 | 1.84 | 1.78 | DF38FG |
| 7/16-1/2 | 0.62 | 0.59 | 1.25 | 0.50 | 2.21 | 2.15 | DF12FG |
| 9/16-5/8 | 1.03 | 0.72 | 1.50 | 0.63 | 2.72 | 2.57 | DF58FG |
| 3/4 | 1.75 | 0.86 | 1.81 | 0.75 | 2.94 | 2.67 | DF34FG |
| 7/8 | 2.25 | 0.97 | 2.12 | 0.75 | 3.31 | 2.86 | DF78FG |
| 1 | 3.00 | 1.13 | 2.25 | 0.75 | 3.72 | 3.06 | DF1FG |

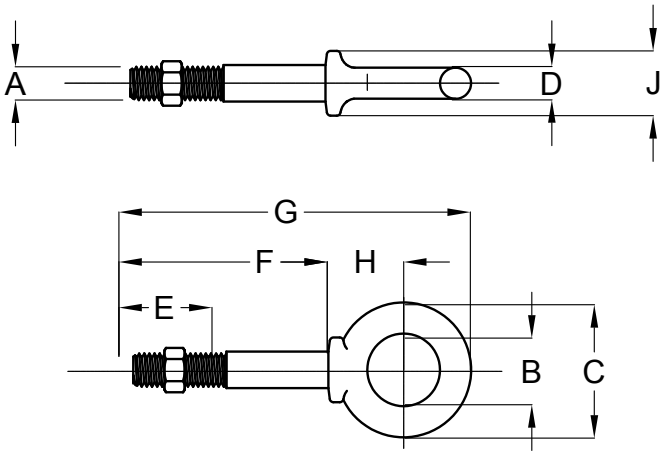



# Malleable Wire Rope Clips

## Electro Galvanized
## To Federal Specification FF-C-450 Type 1, Class 2

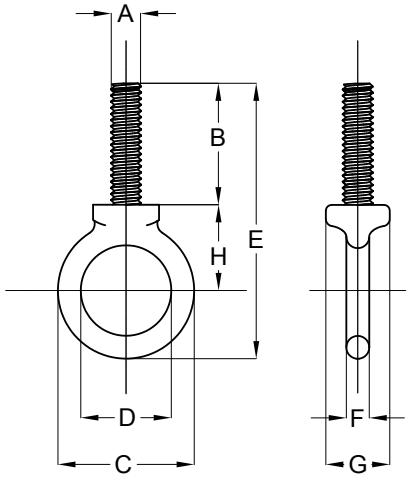
| Size | Weight Per Piece in | Dimensions (in) | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | |
| in | lbs | | | | | | | | |
| 1/16 | 0.03 | 1/16 | 0.45 | 0.45 | 0.15 | 0.38 | 0.69 | 0.65 | EGC116 |
| 1/8 | 0.04 | 1/8 | 0.55 | 0.55 | 0.18 | 0.42 | 0.87 | 0.79 | EGC18 |
| 3/16 | 0.063 | 3/16 | 0.59 | 0.63 | 0.25 | 0.51 | 1.02 | 0.94 | EGC316 |
| 1/4 | 0.13 | 1/4 | 0.73 | 0.79 | 0.31 | 0.59 | 1.25 | 1.24 | EGC14 |
| 5/16 | 0.15 | 5/16 | 0.79 | 0.87 | 0.31 | 0.63 | 1.38 | 1.34 | EGC516 |
| 3/8 | 0.21 | 3/8 | 0.87 | 1.06 | 0.38 | 0.87 | 1.59 | 1.65 | EGC38 |
| 7/16 | 0.37 | 7/16 | 0.91 | 1.18 | 0.44 | 0.87 | 1.70 | 1.69 | EGC716 |
| 1/2 | 0.37 | 1/2 | 1.02 | 1.38 | 0.44 | 0.92 | 1.93 | 2.12 | EGC12 |
| 9/16 | 0.59 | 9/16 | 1.04 | 1.58 | 0.50 | 1.06 | 2.07 | 2.15 | EGC916 |
| 5/8 | 0.59 | 5/8 | 1.12 | 1.58 | 0.50 | 1.10 | 2.26 | 2.33 | EGC58 |
| 3/4 | 0.84 | 3/4 | 1.26 | 1.65 | 0.56 | 1.33 | 2.40 | 2.70 | EGC34 |
| 7/8 | 1.25 | 7/8 | 1.46 | 1.81 | 0.63 | 1.50 | 2.80 | 3.08 | EGC78 |
| 1 | 1.66 | 1 | 1.65 | 2.20 | 0.63 | 1.69 | 3.05 | 3.44 | EGC1 |
| 1 1/8 | 2.43 | 1 1/8 | 2.06 | 2.75 | 0.75 | 2.19 | 3.38 | 4.00 | EGC118 |




# Shoulder Nut Eye Bolts

## Forged Carbon Steel, Hot Dipped Galvanized
## Meets or exceeds all requirements of ASME B30.26

| Bolt Dia. & Shank Length | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | J | |
| in | lbs | lbs | | | | | | | | | | |
| 1/4X2 | 500 | 0.07 | 0.25 | 0.50 | 0.88 | 0.19 | 1.50 | 2.00 | 2.94 | 0.50 | 0.47 | HG14X2SN |
| 1/4X4 | 500 | 0.09 | 0.25 | 0.50 | 0.88 | 0.19 | 2.50 | 4.00 | 4.94 | 0.50 | 0.47 | HG14X4SN |
| 5/16X2 1/4 | 800 | 0.13 | 0.31 | 0.62 | 1.12 | 0.25 | 1.50 | 2.25 | 3.50 | 0.69 | 0.56 | HG516X214SN |
| 5/16X4 1/4 | 800 | 0.19 | 0.31 | 0.62 | 1.12 | 0.25 | 2.50 | 4.25 | 5.50 | 0.69 | 0.56 | HG516X414SN |
| 3/8X2 1/2 | 1,200 | 0.21 | 0.38 | 0.75 | 1.38 | 0.31 | 1.50 | 2.50 | 3.97 | 0.78 | 0.66 | HG38X212SN |
| 3/8X4 1/2 | 1,200 | 0.25 | 0.38 | 0.75 | 1.38 | 0.31 | 2.50 | 4.50 | 5.97 | 0.78 | 0.66 | HG38X412SN |
| 1/2X3 1/4 | 2,200 | 0.43 | 0.50 | 1.00 | 1.75 | 0.38 | 1.50 | 3.25 | 5.12 | 1.00 | 0.91 | HG12X314SN |
| 1/2X6 | 2,200 | 0.57 | 0.50 | 1.00 | 1.75 | 0.38 | 3.00 | 6.00 | 7.88 | 1.00 | 0.91 | HG12X6SN |
| 5/8X4 | 3,500 | 0.69 | 0.62 | 1.25 | 2.25 | 0.50 | 2.00 | 4.00 | 6.44 | 1.31 | 1.12 | HG58X4SN |
| 5/8X6 | 3,500 | 1.02 | 0.62 | 1.25 | 2.25 | 0.50 | 3.00 | 6.00 | 8.44 | 1.31 | 1.12 | HG58X6SN |
| 3/4X4 1/2 | 5,200 | 1.25 | 0.75 | 1.50 | 2.75 | 0.62 | 2.00 | 4.50 | 7.44 | 1.56 | 1.38 | HG34X412SN |
| 3/4X6 | 5,200 | 1.50 | 0.75 | 1.50 | 2.75 | 0.62 | 3.00 | 6.00 | 8.94 | 1.56 | 1.38 | HG34X6SN |
| 7/8X5 | 7,200 | 2.25 | 0.88 | 1.75 | 3.25 | 0.75 | 2.50 | 5.00 | 8.47 | 1.84 | 1.56 | HG78X5SN |
| 1X6 | 10,000 | 3.75 | 1.00 | 2.00 | 3.75 | 0.88 | 3.00 | 6.00 | 9.97 | 2.09 | 1.81 | HG1X6SN |
| 1X9 | 10,000 | 4.29 | 1.00 | 2.00 | 3.75 | 0.88 | 4.00 | 9.00 | 12.97 | 2.09 | 1.81 | HG1X9SN |
| 1 1/4X8 | 15,200 | 6.50 | 1.25 | 2.50 | 4.50 | 1.00 | 4.00 | 8.00 | 12.72 | 2.47 | 2.28 | HG114X8SN |
| 1 1/4X12 | 15,200 | 7.75 | 1.25 | 2.50 | 4.50 | 1.00 | 4.00 | 12.00 | 16.72 | 2.47 | 2.28 | HG114X12SN |
| 1 1/2X15 | 21,400 | 14.25 | 1.50 | 3.00 | 5.50 | 1.25 | 6.00 | 15.00 | 20.75 | 3.00 | 2.75 | HG112X15SN |






# Shoulder Type Machinery Eye Bolts

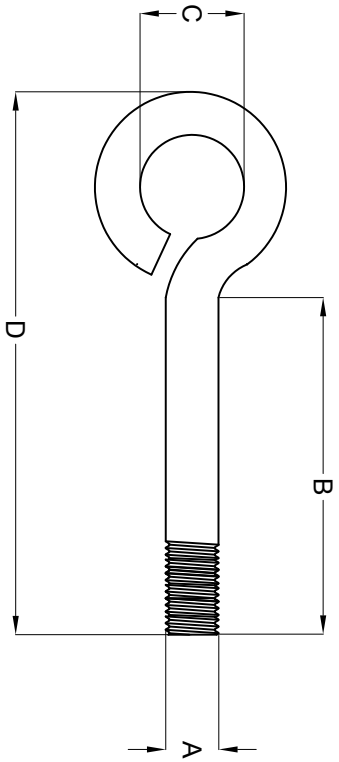
## Hot Galvanized and Self Colored
## Meets or exceeds all requirements of ASME B30.26

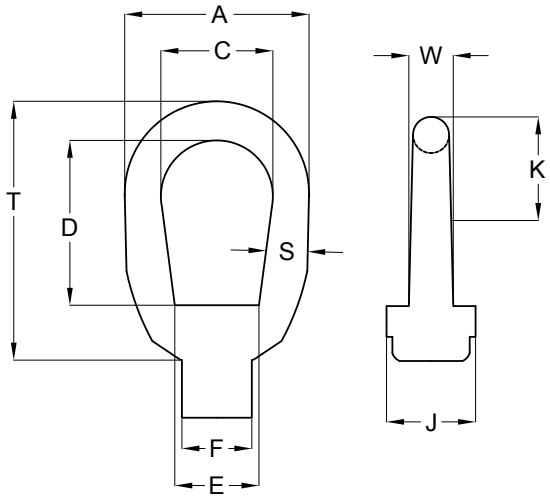
| Shank Dia. & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | Hot Galvanized Part No. | Self Colored Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | | |
| in | lbs | lbs | | | | | | | | | | |
| 1/4x1 | 650 | 0.05 | 1/4"-20 | 1.02 | 1.13 | 0.75 | 2.29 | 0.19 | 0.53 | 0.70 | HG14X1ME | SC14X1ME |
| 5/16X1 1/8 | 1,200 | 0.09 | 5/16"-18 | 1.15 | 1.38 | 0.88 | 2.74 | 0.25 | 0.59 | 0.90 | HG516X118ME | SC516X118ME |
| 3/8X1 1/4 | 1,550 | 0.15 | 3/8"-16 | 1.27 | 1.62 | 1.00 | 3.07 | 0.31 | 0.69 | 1.00 | HG38X114ME | SC38X114ME |
| 1/2X1 1/2 | 2,600 | 0.28 | 1/2"-13 | 1.53 | 1.95 | 1.19 | 3.70 | 0.38 | 0.91 | 1.20 | HG12X112ME | SC12X112ME |
| 5/8X1 3/4 | 5,200 | 0.55 | 5/8"-11 | 1.79 | 2.38 | 1.38 | 4.45 | 0.50 | 1.13 | 1.47 | HG58X134ME | SC58X134ME |
| 3/4X2 | 7,200 | 0.96 | 3/4"-10 | 2.05 | 2.76 | 1.50 | 5.07 | 0.63 | 1.38 | 1.64 | HG34X2ME | SC34X2ME |
| 7/8X2 1/4 | 10,600 | 1.54 | 7/8"-9 | 2.31 | 3.25 | 1.75 | 5.87 | 0.75 | 1.56 | 1.94 | HG78X214ME | SC78X214ME |
| 1X2 1/2 | 13,300 | 2.38 | 1"-8 | 2.57 | 3.76 | 2.00 | 6.66 | 0.88 | 1.81 | 2.21 | HG1X212ME | SC1X212ME |
| 1 1/4X3 | 21,000 | 3.99 | 1-1/4"-7 | 3.09 | 4.50 | 2.50 | 7.95 | 1.00 | 2.28 | 2.61 | HG114X3ME | SC114X3ME |
| 1 1/2X3 1/2 | 24,000 | 7.20 | 1-1/2"-6 | 3.60 | 5.50 | 3.00 | 9.49 | 1.25 | 2.75 | 3.14 | HG112X312ME | SC112X312ME |

# Turned Eyebolts

## Electro Galvanized

| Shank Dia. & Take Up | B | C | D | Thread Length | Weight per Each | Working Load Limit | Part No. |
|---|---|---|---|---|---|---|---|
| in | | | | | | lbs | |
| 1/8 (6-32) | .75 | .25 | 1.25 | .63 | .75 | 22 | EG18X34TE |
| 5/32 (8-32) | 1.12 | .25 | 1.69 | 1.00 | 1.31 | 36 | EG18X118TE |
| 3/16 (10-24) | 1.00 | .38 | 1.69 | .88 | 1.81 | 38 | EG316X1TE |
| 3/16 (10-24) | 1.38 | .94 | 2.00 | 1.25 | 1.88 | 38 | EG316X138TE |
| 3/16 (10-24) | 2.00 | .38 | 2.69 | 1.00 | 2.38 | 38 | EG316X2TE |
| 3/16 (10-24) | 3.00 | .38 | 3.69 | 1.50 | 2.94 | 38 | EG316X3TE |
| 7/32 (12-24) | 1.50 | .38 | 2.25 | 1.38 | 1.67 | 52 | EG732X112TE |
| 1/4 (20) | 1.00 | .50 | 2.00 | .88 | 3.75 | 74 | EG14X1TE |
| 1/4 (20) | 1.50 | .50 | 2.50 | 1.25 | 4.38 | 74 | EG14X112TE |
| 1/4 (20) | 1.88 | .44 | 2.75 | 1.63 | 5.20 | 74 | EG14X178TE |
| 1/4 (20) | 2.00 | .50 | 3.00 | 1.25 | 5.00 | 74 | EG14X2TE |
| 1/4 (20) | 2.50 | .50 | 3.50 | 1.25 | 5.60 | 74 | EG14X212TE |
| 1/4 (20) | 3.00 | .50 | 4.00 | 1.50 | 6.30 | 74 | EG14X3TE |
| 1/4 (20) | 3.50 | .50 | 4.50 | 2.00 | 7.00 | 74 | EG14X314TE |
| 1/4 (20) | 4.00 | .50 | 5.00 | 2.50 | 7.50 | 74 | EG14X4TE |
| 1/4 (20) | 5.00 | .50 | 6.00 | 3.00 | 8.00 | 74 | EG14X5TE |
| 1/4 (20) | 6.00 | .50 | 7.00 | 4.00 | 9.00 | 74 | EG14X6TE |
| 5/16 (18) | 1.00 | .63 | 2.19 | 0.88 | 7.00 | 96 | EG516X1TE |
| 5/16 (18) | 2.00 | .63 | 3.19 | 1.25 | 9.00 | 96 | EG516X2TE |
| 5/16 (18) | 2.25 | .56 | 3.38 | 2.00 | 7.90 | 96 | EG516X214TE |
| 5/16 (18) | 2.50 | .63 | 3.63 | 2.25 | 10.00 | 96 | EG516X212TE |
| 5/16 (18) | 3.00 | .63 | 4.13 | 2.50 | 11.00 | 96 | EG516X3TE |
| 5/16 (18) | 3.50 | .63 | 4.63 | 2.00 | 11.00 | 96 | EG516X312TE |
| 5/16 (18) | 4.00 | .63 | 5.13 | 2.50 | 12.00 | 96 | EG516X4TE |
| 5/16 (18) | 5.00 | .63 | 6.13 | 3.00 | 14.00 | 96 | EG516X5TE |
| 5/16 (18) | 6.00 | .63 | 7.13 | 4.00 | 15.00 | 96 | EG516X6TE |
| 5/16 (18) | 6.50 | .88 | 7.75 | 4.00 | 18.00 | 144 | EG516X612TE |
| 3/8 (16) | 1.00 | .75 | 2.50 | .88 | 12.00 | 144 | EG38X1TE |
| 3/8 (16) | 2.00 | .75 | 3.50 | 1.25 | 15.00 | 144 | EG38X2TE |
| 3/8 (16) | 2.50 | .75 | 3.75 | 2.25 | 15.25 | 144 | EG38X212TE |
| 3/8 (16) | 2.50 | .75 | 4.00 | 1.50 | 15.50 | 144 | EG38X212TEX |
| 3/8 (16) | 3.00 | .75 | 4.50 | 1.50 | 17.00 | 144 | EG38X3TE |
| 3/8 (16) | 3.50 | .75 | 5.00 | 2.00 | 18.00 | 144 | EG38X312TE |
| 3/8 (16) | 4.00 | .75 | 5.50 | 2.50 | 21.00 | 144 | EG38X4TE |
| 3/8 (16) | 5.00 | .75 | 6.50 | 3.00 | 22.00 | 144 | EG38X5TE |
| 3/8 (16) | 6.00 | .75 | 7.50 | 4.00 | 24.00 | 144 | EG38X6TE |
| 3/8 (16) | 8.00 | .75 | 9.50 | 4.00 | 30.00 | 144 | EG38X8TE |
| 3/8 (16) | 10.00 | .75 | 11.50 | 4.00 | 34.00 | 144 | EG38X10TE |
| 3/8 (16) | 12.00 | .75 | 13.50 | 4.00 | 39.00 | 144 | EG38X12TE |
| 7/16(14) | 6.00 | .88 | 7.75 | 4.00 | 36.00 | 216 | EG716X6TE |
| 7/16(14) | 8.00 | .88 | 9.75 | 4.00 | 42.00 | 216 | EG716X8TE |
| 1/2(13) | 2.00 | 1.00 | 4.00 | 1.50 | 33.00 | 298 | EG12X2TE |
| 1/2(13) | 4.00 | 1.00 | 6.00 | 2.50 | 41.00 | 298 | EG12X4TE |
| 1/2(13) | 6.00 | 1.00 | 8.00 | 4.00 | 50.00 | 298 | EG12X6TE |
| 1/2(13) | 8.00 | 1.00 | 10.00 | 4.00 | 58.00 | 298 | EG12X8TE |
| 1/2(13) | 10.00 | 1.00 | 12.00 | 4.00 | 68.00 | 298 | EG12X10TE |

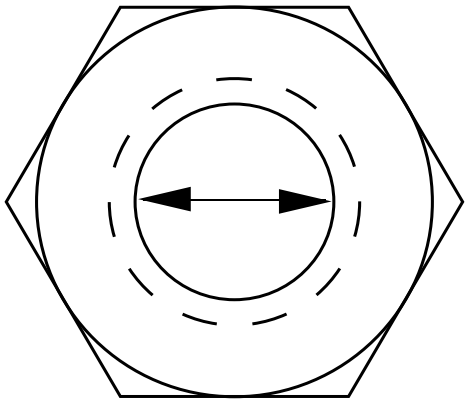



# Forged Eye Nuts

## Drop Forged, Hot Dipped Galvanized
## Meets or exceeds all requirements of ASME B30.26

| Size No. | Tap Size | Dimensions (in) | | | | | | | N | T | W | Working Load Limit | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | C | D | E | F | J | K | | | | | | |
| | M | | | | | | | | | | | lbs | lbs | |
| 1 | 1/4 | 1.25 | 0.75 | 1.00 | 0.75 | 0.50 | 0.69 | 0.63 | 0.46 | 1.72 | 0.31 | 1/4 | 0.09 | DF1EN |
| 2 | 3/8 | 1.62 | 1.00 | 1.20 | 0.83 | 0.56 | 0.81 | 0.89 | 0.58 | 2.09 | 0.41 | 3/8 | 0.17 | DF2EN |
| 3A | 1/2 | 2.00 | 1.25 | 1.44 | 1.08 | 0.81 | 1.00 | 1.09 | 0.73 | 2.55 | 0.50 | 1/2 | 0.28 | DF3AEN |
| 4 | 5/8 | 2.50 | 1.50 | 1.92 | 1.35 | 1.00 | 1.31 | 1.31 | 0.83 | 3.25 | 0.69 | 5/8 | 0.60 | DF4EN |
| 5 | 3/4 | 3.00 | 1.75 | 2.28 | 1.59 | 1.12 | 1.50 | 1.57 | 1.05 | 3.96 | 0.84 | 3/4 | 1.00 | DF5EN |
| 6 | 7/8 | 3.50 | 2.00 | 2.50 | 1.96 | 1.38 | 1.88 | 1.77 | 1.14 | 4.40 | 1.00 | 7/8 | 1.65 | DF6EN |



# Locknuts (Jam Nuts)

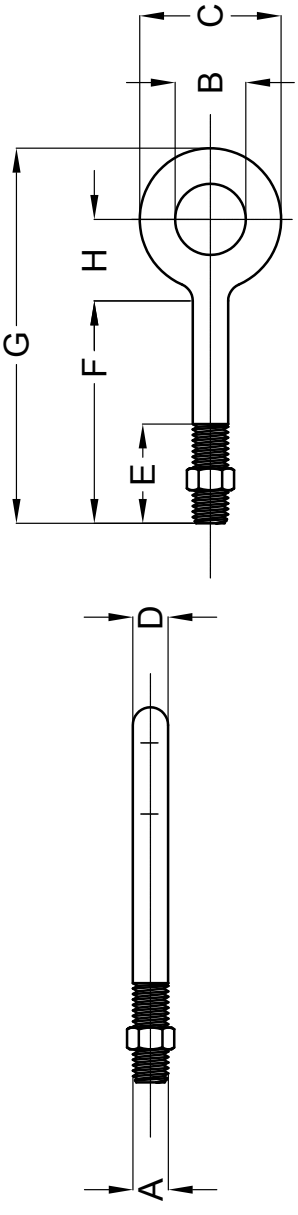
## For Galvanized Turnbuckles

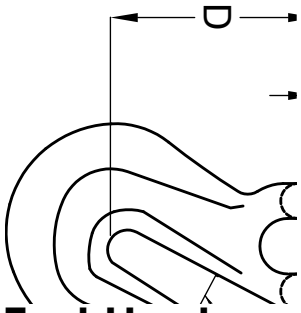
| Size in | NC Threads Per Inch | Width Across Flat (A) in Inches | Weight Per Piece lbs | Part No. |
|---|---|---|---|---|
| 1 | 8.00 | 1.50 | 0.18 | HG1LN |
| 1.25 | 7.00 | 1.81 | 0.37 | HG114LN |
| 1.5 | 6.00 | 2.19 | 0.60 | HG112LN |
| 1.75 | 5.00 | 2.56 | 1.02 | HG134LN |
| 2 | 4.50 | 2.94 | 2.25 | HG2LN |
| 2.5 | 4.00 | 3.75 | 3.13 | HG212LN |
| 2.75 | 4.00 | 4.13 | 3.30 | HG234LN |

# Regular Nut Eye Bolts

## Drop Forged, Hot Dipped Galvanized
## Meets or exceeds all requirements of ASME B30.26

| Bolt Dia. & Shank Length | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | |
| in | lbs | lbs | | | | | | | | | |
| 1/4x2 | 650 | 0.08 | 0.25 | 0.50 | 1.00 | 0.25 | 1.50 | 2.00 | 3.06 | 0.56 | HG14X2RN |
| 1/4X4 | 650 | 0.12 | 0.25 | 0.50 | 1.00 | 0.25 | 2.50 | 4.00 | 5.06 | 0.56 | HG14X4RN |
| 5/16X2 1/4 | 1,200 | 0.13 | 0.31 | 0.62 | 1.25 | 0.31 | 1.50 | 2.25 | 3.56 | 0.69 | HG516X214RN |
| 5/16x4 1/4 | 1,200 | 0.25 | 0.31 | 0.62 | 1.25 | 0.31 | 2.50 | 4.25 | 5.56 | 0.69 | HG516X414RN |
| 5/16X6 | 1,200 | 0.31 | 0.31 | 0.62 | 1.25 | 0.31 | 3.00 | 6.00 | 7.25 | 0.69 | HG516X6RN |
| 3/8X1 1/4 | 1,550 | 0.21 | 0.38 | 0.62 | 1.50 | 0.38 | 1.25 | 1.25 | 3.00 | 0.88 | HG38X114RN |
| 3/8X2 1/2 | 1,550 | 0.24 | 0.38 | 0.75 | 1.50 | 0.38 | 1.50 | 2.50 | 4.12 | 0.88 | HG38X212RN |
| 3/8X3 | 1,550 | 0.26 | 0.38 | 0.75 | 1.50 | 0.38 | 1.50 | 3.00 | 4.50 | 0.88 | HG38X3RN |
| 3/8X4 1/2 | 1,550 | 0.29 | 0.38 | 0.75 | 1.50 | 0.38 | 2.50 | 4.50 | 6.12 | 0.88 | HG38X412RN |
| 3/8X6 | 1,550 | 0.35 | 0.38 | 0.75 | 1.50 | 0.38 | 2.50 | 6.00 | 7.62 | 0.88 | HG38X6RN |
| 3/8X8 | 1,550 | 0.42 | 0.38 | 0.75 | 1.50 | 0.38 | 2.50 | 8.00 | 9.75 | 0.88 | HG38X8RN |
| 1/2X2 | 2,600 | 0.48 | 0.50 | 1.00 | 2.00 | 0.50 | 1.50 | 2.00 | 4.00 | 1.12 | HG12X2RN |
| 1/2X3 1/4 | 2,600 | 0.51 | 0.50 | 1.00 | 2.00 | 0.50 | 1.50 | 3.25 | 5.38 | 1.12 | HG12X314RN |
| 1/2X4 1/2 | 2,600 | 0.55 | 0.50 | 1.00 | 2.00 | 0.50 | 1.50 | 3.50 | 6.50 | 1.12 | HG12X412RN |
| 1/2X6 | 2,600 | 0.66 | 0.50 | 1.00 | 2.00 | 0.50 | 3.00 | 6.00 | 8.12 | 1.12 | HG12X6RN |
| 1/2X8 | 2,600 | 0.82 | 0.50 | 1.00 | 2.00 | 0.50 | 3.00 | 8.00 | 10.12 | 1.12 | HG12X8RN |
| 1/2X10 | 2,600 | 0.88 | 0.50 | 1.00 | 2.00 | 0.50 | 3.00 | 10.00 | 12.12 | 1.12 | HG12X10RN |
| 1/2X12 | 2,600 | 1.14 | 0.50 | 1.00 | 2.00 | 0.50 | 3.00 | 12.00 | 14.12 | 1.12 | HG12X12RN |
| 5/8X4 | 5,200 | 1.03 | 0.62 | 1.25 | 2.50 | 0.62 | 2.00 | 4.00 | 6.69 | 1.44 | HG58X4RN |
| 5/8X6 | 5,200 | 1.18 | 0.62 | 1.25 | 2.50 | 0.62 | 3.00 | 6.00 | 8.69 | 1.44 | HG58X6RN |
| 5/8X8 | 5,200 | 1.35 | 0.62 | 1.25 | 2.50 | 0.62 | 3.00 | 8.00 | 10.69 | 1.44 | HG58X8RN |
| 5/8X10 | 5,200 | 1.54 | 0.62 | 1.25 | 2.50 | 0.62 | 3.00 | 10.00 | 12.69 | 1.44 | HG58X10RN |
| 5/8X12 | 5,200 | 1.67 | 0.62 | 1.25 | 2.50 | 0.62 | 4.00 | 12.00 | 14.69 | 1.44 | HG58X12RN |
| 5/8X15 | 5,200 | 1.92 | 0.62 | 1.25 | 2.50 | 0.62 | 5.25 | 15.00 | 17.75 | 1.44 | HG58X15RN |
| 3/4X4 1/2 | 7,200 | 1.69 | 0.75 | 1.50 | 3.00 | 0.75 | 2.00 | 4.50 | 7.69 | 1.69 | HG34X412RN |
| 3/4X6 | 7,200 | 1.85 | 0.75 | 1.50 | 3.00 | 0.75 | 3.00 | 6.00 | 9.19 | 1.69 | HG34X6RN |
| 3/4X8 | 7,200 | 2.08 | 0.75 | 1.50 | 3.00 | 0.75 | 3.00 | 8.00 | 11.19 | 1.69 | HG34X8RN |
| 3/4X10 | 7,200 | 2.35 | 0.75 | 1.50 | 3.00 | 0.75 | 3.00 | 10.00 | 13.19 | 1.69 | HG34X10RN |
| 3/4X12 | 7,200 | 2.58 | 0.75 | 1.50 | 3.00 | 0.75 | 4.00 | 12.00 | 15.19 | 1.69 | HG34X12RN |
| 3/4X15 | 7,200 | 2.98 | 0.75 | 1.50 | 3.00 | 0.75 | 5.00 | 15.00 | 18.19 | 1.69 | HG34X15RN |
| 3/4X18 | 7,200 | 3.38 | 0.75 | 1.50 | 3.00 | 0.75 | 7.25 | 18.00 | 21.50 | 1.69 | HG34X18RN |
| 7/8X5 | 10,600 | 2.70 | 0.88 | 1.75 | 3.50 | 0.88 | 2.50 | 5.00 | 8.75 | 2.00 | HG78X5RN |
| 7/8X8 | 10,600 | 3.08 | 0.88 | 1.75 | 3.50 | 0.88 | 4.00 | 8.00 | 11.75 | 2.00 | HG78X8RN |
| 7/8X12 | 10,600 | 4.00 | 0.88 | 1.75 | 3.50 | 0.88 | 4.00 | 12.00 | 15.75 | 2.00 | HG78X12RN |
| 1X6 | 13,300 | 4.21 | 1.00 | 2.00 | 4.00 | 1.00 | 3.00 | 6.00 | 10.31 | 2.31 | HG1X6RN |
| 1X9 | 13,300 | 4.69 | 1.00 | 2.00 | 4.00 | 1.00 | 4.00 | 9.00 | 13.31 | 2.31 | HG1X9RN |
| 1X12 | 13,300 | 5.40 | 1.00 | 2.00 | 4.00 | 1.00 | 4.00 | 12.00 | 16.31 | 2.31 | HG1X12RN |
| 1X18 | 13,300 | 6.50 | 1.00 | 2.00 | 4.00 | 1.00 | 7.00 | 18.00 | 22.31 | 2.31 | HG1X18RN |
| 1 1/4X8 | 21,000 | 7.50 | 1.25 | 2.50 | 5.00 | 1.25 | 4.00 | 8.00 | 13.38 | 2.88 | HG114X8RN |
| 1 1/4X12 | 21,000 | 9.00 | 1.25 | 2.50 | 5.00 | 1.25 | 4.00 | 12.00 | 17.38 | 2.88 | HG114X12RN |
| 1 1/4X20 | 21,000 | 12.10 | 1.25 | 2.50 | 5.00 | 1.25 | 6.00 | 20.00 | 25.38 | 2.88 | HG114X20RN |
| 1 1/2X15 | 30,000 | 14 | 1.50 | 3.00 | 6.00 | 1.50 | 6.00 | 15.00 | 21.00 | 3.00 | HG112X15RN |

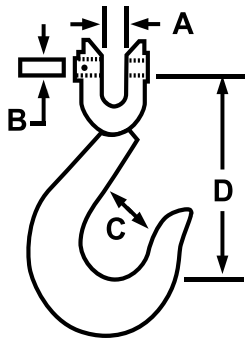





# Grade 43 High-Test Hooks

## Grade 43 Clevis Grab Hooks
## Forged Steel, Heat Treated

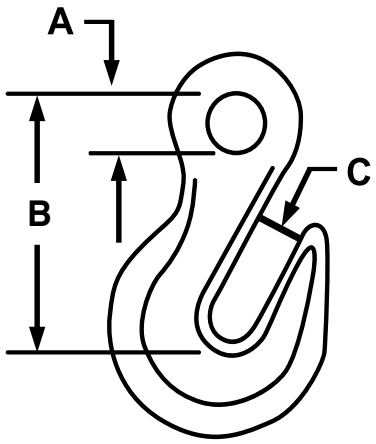
| Size | Working Load Limit | Dimensions (in) | | | | Weight Per Piece in | Part No. Zinc Plated | Part No. Self-Colored |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | | | |
| in | lbs | | | | | lbs | | |
| 1/4 | 2,600 | 0.38 | 0.38 | 0.34 | 1.94 | 0.43 | 43CGH14 | 43CGH14SC |
| 5/16 | 3,900 | 0.44 | 0.44 | 0.41 | 2.38 | 0.72 | 43CGH516 | 43CGH516SC |
| 3/8 | 5,400 | 0.56 | 0.47 | 0.50 | 2.63 | 1.15 | 43CGH38 | 43CGH38SC |
| 1/2 | 9,200 | 0.69 | 0.63 | 0.66 | 3.50 | 2.35 | 43CGH12 | 43CGH12SC |
| 5/8 | 13,000 | 0.81 | 0.63 | 0.81 | 4.19 | 4.10 | 43CGH58 | 43CGH58SC |




## Grade 43 Clevis Slip Hooks
## Forged Steel, Heat Treated

| Size | Working Load Limit | Dimensions (in) | | | | Weight Per Piece in | Part No. Zinc Plated | Part No. Self-Colored |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | | | |
| in | lbs | | | | | lbs | | |
| 1/4 | 1,950 | 0.38 | 0.27 | 0.88 | 2.56 | 0.50 | 43CSH14 | 43CSH14SC |
| 5/16 | 2,875 | 0.44 | 0.44 | 1.00 | 2.81 | 0.75 | 43CSH516 | 43CSH516SC |
| 3/8 | 4,000 | 0.56 | 0.47 | 1.28 | 3.25 | 1.20 | 43CSH38 | 43CSH38SC |
| 1/2 | 6,500 | 0.63 | 0.56 | 1.38 | 4.00 | 2.80 | 43CSH12 | 43CSH12SC |
| 5/8 | 9,250 | 0.75 | 0.75 | 2.00 | 4.81 | 6.00 | 43CSH58 | 43CSH58SC |

*Clevis Slip Hooks come with stainless steel latches installed

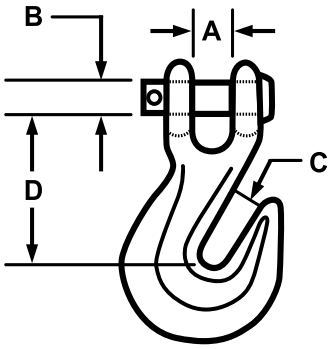



# Grade 43 High-Test Hooks

## Grade 43 Eye Grab Hooks
## Forged Steel, Zinc Plated Heat Treated

| Size of Chain | Working Load Limit | Dimensions (in) | | | Weight Per Piece in | Part No. Zinc Plated |
|---|---|---|---|---|---|---|
| | | A | B | C | | |
| in | lbs | | | | lbs | |
| 1/4 | 2,600 | 0.50 | 0.34 | 1.97 | 0.28 | 43EGH14 |
| 5/16 | 3,900 | 0.56 | 0.44 | 2.25 | 0.45 | 43EGH516 |
| 3/8 | 5,400 | 0.66 | 0.50 | 2.56 | 0.79 | 43EGH38 |
| 7/16 | 7,200 | 0.75 | 0.56 | 2.94 | 1.19 | 43EGH716 |
| 1/2 | 9,200 | 0.88 | 0.66 | 3.38 | 1.80 | 43EGH12 |
| 5/8 | 13,000 | 1.06 | 0.78 | 4.11 | 3.30 | 43EGH58 |

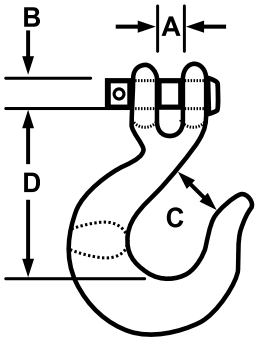
**G43 forged carbon steel**
**Quenched and tempered**
**NEVER EXCEED PUBLISHED WORKING LOAD LIMIT. ALWAYS READ AND UNDERSTAND THE GENERAL WARNINGS AND INFORMATION ON PAGE 4 AND 5.**




# Grade 70 Transport Hooks

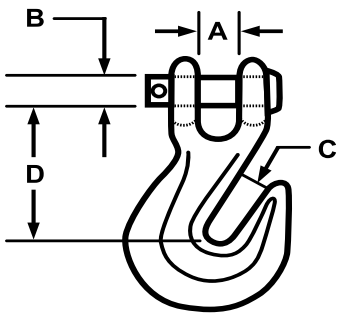
## Grade 70 Alloy Clevis Grab Hooks
## Forged Steel, Heat Treated, Yellow Chromate

| Size | Working Load Limit | Dimensions (in) | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|
| | | A | B | C | D | | |
| in | lbs | | | | | lbs | |
| 1/4 | 3,150 | 0.43 | 0.38 | 0.38 | 0.34 | 1.94 | 14G70CGH |
| 5/16 | 4,700 | 0.72 | 0.44 | 0.44 | 0.41 | 2.38 | 516G70CGH |
| 3/8 | 6,600 | 1.15 | 0.56 | 0.47 | 0.50 | 2.63 | 38G70CGH |
| 1/2 | 11,300 | 2.35 | 0.69 | 0.63 | 0.66 | 3.50 | 12G70CGH |
| 5/8 | 15,300 | 4.20 | 0.94 | 0.75 | 0.78 | 4.09 | 58G70CGH |


## Grade 70 Alloy Clevis Slip Hooks
## Forged Steel, Heat Treated, Yellow Chromate

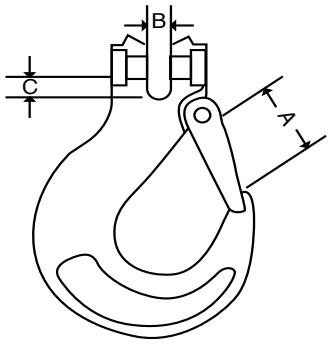
| Size | Working Load Limit | Dimensions (in) | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|
| | | A | B | C | D | | |
| in | lbs | | | | | lbs | |
| 1/4 | 2,600 | 0.38 | 0.38 | 0.34 | 1.94 | 0.43 | 14G70CSH |
| 5/16 | 3,900 | 0.44 | 0.44 | 0.41 | 2.38 | 0.72 | 516G70CSH |
| 3/8 | 5,400 | 0.56 | 0.47 | 0.50 | 2.63 | 1.15 | 38G70CSH |
| 1/2 | 9,200 | 0.69 | 0.63 | 0.66 | 3.50 | 2.35 | 12G70CSH |
| 5/8 | 11,500 | 0.81 | 0.63 | 0.81 | 4.19 | 4.10 | 58G70CSH |




# Grade 80 Alloy Hooks

## Grade 80 Alloy Clevis Grab Hooks W/ Cradle
## Forged Steel, Heat Treated, Painted Red

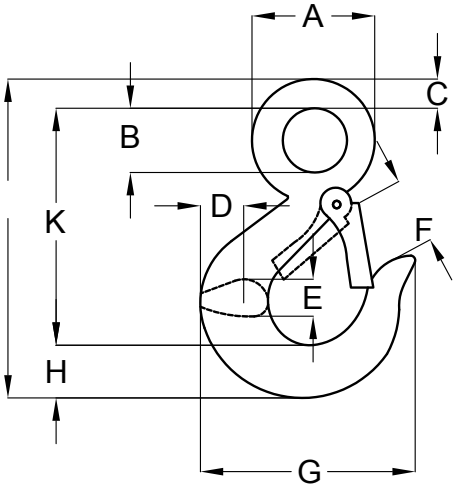
| Size | Working Load Limit | Dimensions (in) | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | | |
| in | lbs | | | | | | lbs | |
| 9/32" - 5/16 | 4,500 | 0.35 | 0.35 | 0.39 | 1.97 | 1.18 | 0.60 | 932G80CGH |
| 3/8 | 7,100 | 0.51 | 0.51 | 0.51 | 2.83 | 1.73 | 1.65 | 38G80CGH |
| 1/2 | 12,000 | 0.67 | 0.63 | 0.67 | 3.46 | 2.06 | 2.97 | 12G80CGH |
| 5/8 | 18,100 | 0.83 | 0.82 | 0.79 | 4.01 | 2.52 | 6.16 | 58G80CGH |
| 3/4 | 28,300 | 0.94 | 0.94 | 0.94 | 4.60 | 3.34 | 10.56 | 34G80CGH |




## Grade 80 Alloy Clevis Sling Hooks
## Forged Steel, Heat Treated, Painted Red

| Size | Working Load Limit | Dimensions (in) | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|
| | | A | B | C | D | | |
| in | lbs | | | | | lbs | |
| 3/8 | 7,100 | 0.48 | 0.51 | 1.20 | 4.13 | 2.09 | 38G80CSH |
| 1/2 | 12,000 | 0.60 | 0.63 | 1.61 | 5.06 | 3.67 | 12G80CSH |
| 5/8 | 18,100 | 0.75 | 0.82 | 1.97 | 6.11 | 6.60 | 58G80CSH |
| 3/4 | 28,300 | 0.83 | 1.02 | 2.36 | 7.24 | 12.54 | 34G80CSH |

*Clevis Sling Hooks come with stainless steel latches installed

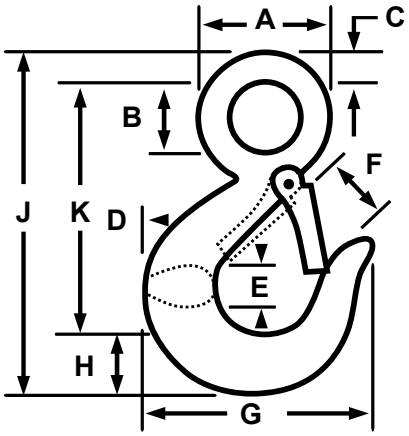



# Grade 80 Alloy Eye Hoist Hooks

## Forged Steel, Heat Treated, Painted Red

| Working Load Limit | Dimensions (in) | | | | | | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | J | K | | |
| tons | | | | | | | | | | | lbs | |
| 1 | 1.50 | 0.75 | 0.38 | 0.88 | 0.63 | 0.94 | 2.88 | 0.75 | 4.38 | 3.25 | 0.60 | AEHH1T |
| 1.5 | 1.75 | 0.88 | 0.44 | 1.00 | 0.69 | 1.06 | 3.13 | 0.81 | 4.88 | 3.63 | 0.82 | AEHH1.5T |
| 2 | 2.00 | 1.13 | 0.44 | 1.19 | 0.81 | 1.06 | 3.50 | 1.00 | 5.50 | 4.13 | 1.44 | AEHH2T |
| 3 | 2.38 | 1.25 | 0.59 | 1.38 | 0.94 | 1.22 | 3.94 | 1.19 | 6.31 | 4.56 | 1.94 | AEHH3T |
| 4.5 | 3.00 | 1.56 | 0.69 | 1.63 | 1.19 | 1.50 | 5.00 | 1.50 | 7.94 | 5.75 | 3.96 | AEHH4.5T |
| 7 | 3.81 | 2.00 | 0.88 | 2.06 | 1.50 | 1.88 | 6.25 | 1.75 | 10.00 | 7.38 | 7.75 | AEHH7T |
| 11 | 4.69 | 2.44 | 1.13 | 2.63 | 1.63 | 2.25 | 7.56 | 2.25 | 12.44 | 9.06 | 13.00 | AEHH11T |
| 15 | 5.37 | 2.84 | 1.26 | 2.94 | 2.19 | 2.51 | 8.30 | 2.59 | 13.93 | 10.07 | 10.00 | AEHH15T |
| 22 | 6.64 | 3.50 | 1.58 | 3.50 | 2.69 | 3.30 | 10.30 | 3.00 | 17.08 | 12.50 | 16.80 | AEHH22T |

*All have stainless steel latches installed




# Grade 80 Alloy Swivel Eye Hoist Hooks

## Forged Steel, Heat Treated, Painted Red

| Working Load Limit | Dimensions (in) | | | | | | | | | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | | |
| tons | | | | | | | | | | | | | | lbs | |
| 2 | 3.00 | 1.50 | 1.75 | 3.59 | 1.50 | 1.00 | 1.16 | 1.06 | 0.88 | 7.94 | 0.88 | 6.01 | 0.63 | 2.50 | ASH2T |
| 3 | 3.50 | 1.56 | 2.00 | 4.00 | 1.62 | 1.13 | 1.31 | 1.19 | 0.94 | 8.60 | 0.94 | 6.72 | 0.75 | 3.80 | ASH3T |
| 5 | 4.00 | 1.56 | 2.25 | 4.84 | 2.00 | 1.44 | 1.63 | 1.50 | 1.31 | 10.32 | 1.13 | 8.00 | 0.88 | 7.00 | ASH5T |
| 7 | 5.00 | 1.94 | 2.75 | 6.27 | 2.50 | 1.81 | 2.06 | 1.78 | 1.66 | 12.84 | 1.44 | 9.90 | 1.13 | 14.00 | ASH7T |
| 11 | 5.62 | 2.05 | 3.12 | 7.54 | 3.00 | 2.25 | 2.63 | 2.41 | 1.88 | 15.24 | 1.63 | 11.74 | 1.25 | 22.30 | ASH11T |
| 15 | 7.12 | 3.00 | 4.10 | 8.30 | 3.25 | 2.59 | 2.94 | 2.62 | 2.19 | 18.64 | 1.94 | 14.41 | 1.50 | 37.80 | ASH15T |

*All have stainless steel latches installed

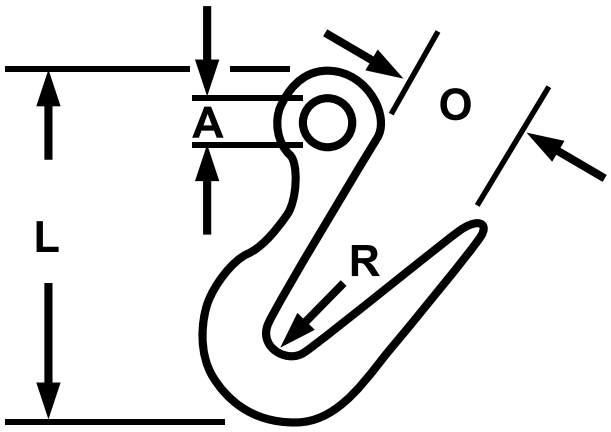
## Lanyards Hooks

| Breaking Strength in Lbs | Part No. |
|---|---|
| 5,000 | DL5000 |

## S Hooks

### Zinc Plated

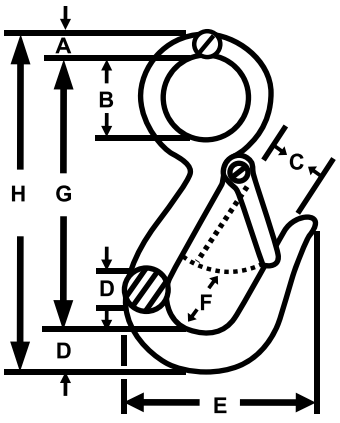
| Wire | | Part No. |
|---|---|---|
| Size | Length | |
| 1/8 | 1-1/8 | SH18 |
| 3/16 | 1-7/8 | SH316 |
| 1/4 | 3-1/8 | SH14 |
| 5/16 | 3-1/8 | SH516 |
| 3/8 | 3-7/8 | SH38 |




## Sorting Hooks

| Working Load Limit at Tip | Working Load Limit at Botton | Dimensions (in) | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|
| | | A | L | O | R | | |
| tons | tons | | | | | lbs | |
| 2 | 7 - 1/2 | 1.38 | 9.69 | 2.81 | 0.63 | 6.25 | A2TSH |

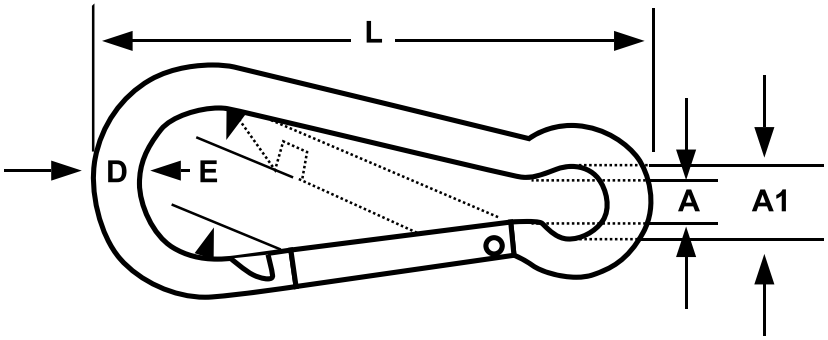
Forged alloy steel
Quenched and tempered
NEVER EXCEED PUBLISHED WORKING LOAD LIMIT. ALWAYS READ AND UNDERSTAND THE GENERAL WARNINGS AND INFORMATION ON PAGE 4 AND 5.




## Snap Hooks

### Forged Steel, Electro Galvanized, with Stainless Steel Latch

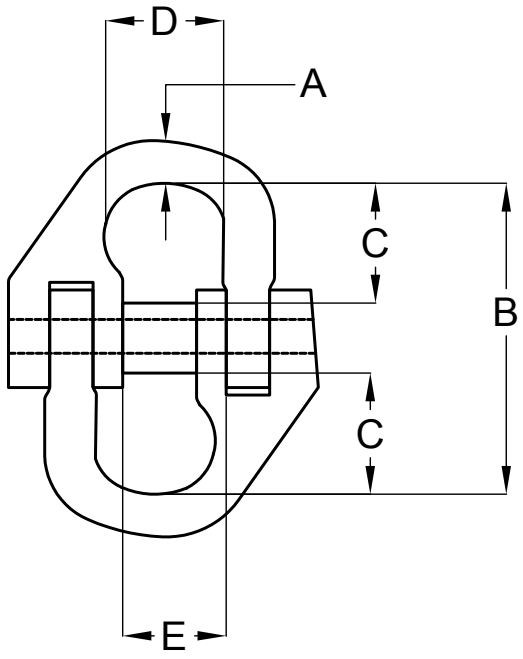
| Size | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | |
| in | lbs | lbs | | | | | | | | | |
| 7/16 | 750 | 0.38 | 0.28 | 0.68 | 0.72 | 0.58 | 2.05 | 0.74 | 3.18 | 4.06 | EG716SHH |
| 9/16 | 1,000 | 0.5 | 0.34 | 1.12 | 0.76 | 0.55 | 2.16 | 0.88 | 3.86 | 4.76 | EG916SHH |




# Spring Snap Hooks

## Galvanized

| Length Overall | Snap Opening | Working Load Limit lbs | Weight Per Piece lbs | Part No. |
|---|---|---|---|---|
| 2.13 | 0.25 | 220 | 0.044 | EG316SH |
| 2.50 | 0.32 | 260 | 0.077 | EG14SH |
| 3.13 | 0.31 | 500 | 0.172 | EG516SH |
| 4.00 | 0.50 | 550 | 0.243 | EG38SH |
| 5.50 | 0.75 | 1,200 | 0.551 | EG12SH |

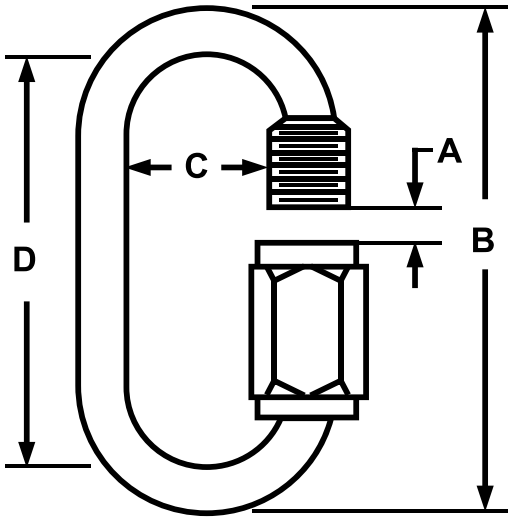





# Coupling Links

## Grade 80, Forged Alloy Steel

| Size | Working Load Limit | Dimensions (in) | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | | |
| in | tons | | | | | | lbs | |
| 9/32 | 3,500 | 0.33 | 0.38 | 0.79 | 0.79 | 0.73 | 0.25 | 932G80CL |
| 5/16 | 4,500 | 0.37 | 0.44 | 1.02 | 0.98 | 0.89 | 0.55 | 516G80CL |
| 3/8 | 7,100 | 0.47 | 0.44 | 1.26 | 1.06 | 0.98 | 0.75 | 38G80CL |
| 1/2 | 12,000 | 0.61 | 0.59 | 1.38 | 1.26 | 1.18 | 1.50 | 12G80CL |
| 5/8 | 18,100 | 0.73 | 0.69 | 1.69 | 1.53 | 1.42 | 2.55 | 58G80CL |
| 3/4 | 28,300 | 0.90 | 0.88 | 1.89 | 1.85 | 1.73 | 4.15 | 34G80CL |
| 7/8 | 34,200 | 1.04 | 1.13 | 2.00 | 2.16 | 1.93 | 5.75 | 78G80CL |
| 1 | 52,100 | 1.24 | 1.26 | 2.36 | 2.60 | 2.36 | 8.60 | 1G80CL |

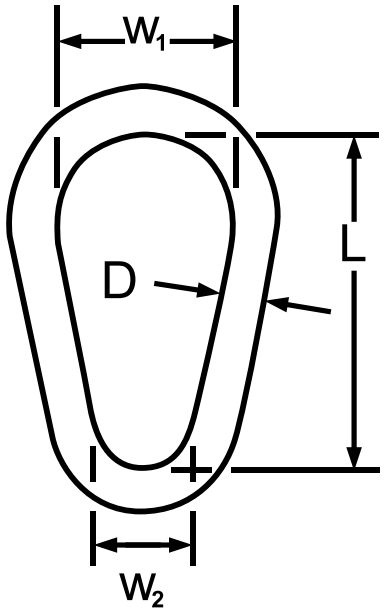





# Rapid (Quick) Links

## Electro Galvanized

| Size | Working | Dimensions (in) | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|
| | | A | B | C | D | | |
| in | lbs | | | | | lbs | |
| 1/8 | 400 | 0.19 | 1.45 | 0.39 | 1.19 | 0.02 | EG18RL |
| 3/16 | 660 | 0.25 | 2.06 | 0.50 | 1.69 | 0.05 | EG316RL |
| 1/4 | 880 | 0.31 | 2.38 | 0.56 | 1.88 | 0.08 | EG14RL |
| 5/16 | 1,760 | 0.38 | 2.94 | 0.69 | 2.31 | 0.18 | EG516RL |
| 3/8 | 2,200 | 0.44 | 3.19 | 0.69 | 2.44 | 0.24 | EG38RL |
| 1/2 | 3,300 | 0.56 | 4.25 | 0.94 | 3.25 | 0.53 | EG12RL |



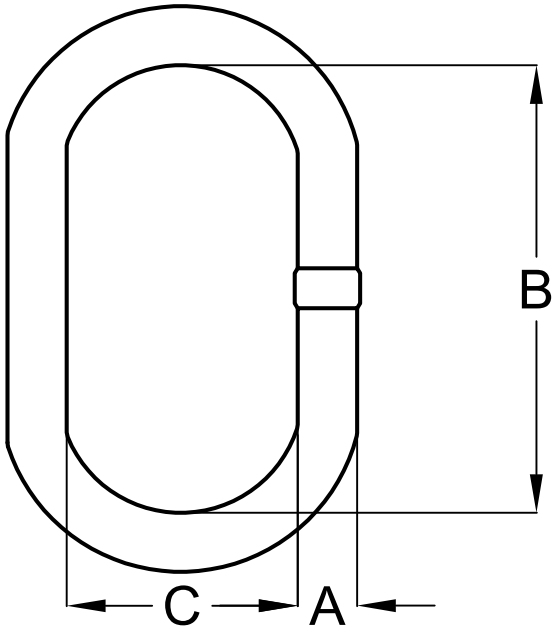



## Pear Shaped Sling Links – High Test

### Grade 43, Hot Dipped Galvanized & Self Colored(Painted)

| Size | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | Part No. H.D.G. | Part No. Self Colored |
|---|---|---|---|---|---|---|---|---|---|
| | | | B | C | D | E | F | | |
| in | lbs | lbs | | | | | | | |
| 3/8 | 1,800 | 0.23 | 1.13 | 0.75 | 3.00 | 2.25 | 0.38 | 43PSLG38 | 43PSLG38SC |
| 1/2 | 2,900 | 0.55 | 1.50 | 1.00 | 4.00 | 3.00 | 0.50 | 43PSLG12 | 43PSLG12SC |
| 5/8 | 4,200 | 1.06 | 1.87 | 1.25 | 5.00 | 3.75 | 0.63 | 43PSLG58 | 43PSLG58SC |
| 3/4 | 6,000 | 1.88 | 2.25 | 1.50 | 6.00 | 4.50 | 0.75 | 43PSLG34 | 43PSLG34SC |
| 7/8 | 8,300 | 2.75 | 2.63 | 1.75 | 7.00 | 5.25 | 0.88 | 43PSLG78 | 43PSLG78SC |
| 1 | 10,800 | 4.35 | 3.00 | 2.00 | 8.00 | 6.00 | 1.00 | 43PSLG12 | 43PSLG1SC |

Crosby Picture G-341/S-341




# Alloy Oblong Master Links

## Grade 80 Alloy, Painted Red
## To Specifications ASTM A952 & ASME B30.26 SPEC

| Size | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | Part No. |
|---|---|---|---|---|---|---|
| | | | A | B | C | |
| in | lbs | lbs | | | | |
| 1/2 | 7,400 | 0.82 | 0.62 | 2.80 | 5.00 | 12G80OML |
| 5/8 | 9,000 | 1.52 | 0.62 | 3.00 | 6.00 | 58G80OML |
| 3/4 | 12,300 | 2.07 | 0.73 | 3.20 | 6.00 | 34G80OML |
| 7/8 | 15,200 | 3.31 | 0.88 | 3.75 | 6.38 | 78G80OML |
| 1 | 26,000 | 4.85 | 1.10 | 4.30 | 7.50 | 1G80OML |
| 1 1/4 | 39,100 | 9.57 | 1.33 | 5.50 | 9.50 | 114G80OML |
| 1 1/2 | 61,100 | 16.22 | 1.61 | 5.90 | 10.50 | 112G80OML |
| 1 3/4 | 84,900 | 25.22 | 1.75 | 6.00 | 12.00 | 134G80OML |
| 2 | 102,600 | 37.04 | 2.00 | 7.00 | 14.00 | 2G80OML |
| 2-1/2 | 160,000 | 68.50 | 2.50 | 8.00 | 16.00 | 212G80OML |
| 3 | 228,000 | 115.00 | 3.00 | 9.00 | 18.00 | 3G80OML |
| 3-1/2 | 279,000 | 200.00 | 3.50 | 12.00 | 24.00 | 312G80OML |

Crosby Picture A-342

## Repair Link ( Lap Link)

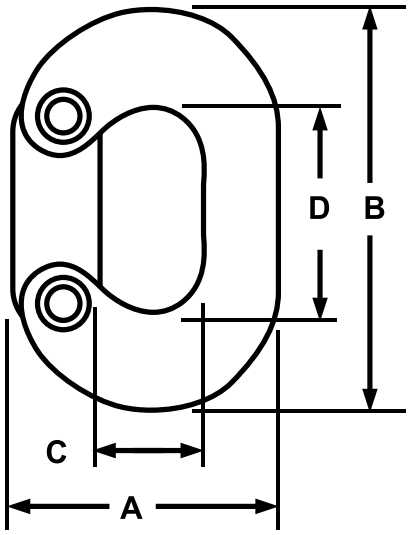
### Electro Galvanized

| Size | Weight Per Piece in | Working Load Limit | Inside Length | Inside Width | Part No. |
|---|---|---|---|---|---|
| in | lbs | lbs | | | |
| 1/8 x 3/4 | 0.01 | 190 | 0.78 | 0.36 | 18X34RL |
| 3/16 x 1 | 0.03 | 240 | 1.00 | 0.50 | 316X1RL |
| 1/4 x 1 1/4 | 0.07 | 400 | 1.25 | 0.50 | 14X114RL |
| 5/16 x 1 1/2 | 0.13 | 950 | 1.50 | 0.75 | 516X112RL |
| 3/8 x 1 5/8 | 0.23 | 1,250 | 1.63 | 0.75 | 38X158RL |
| 1/2 x 2 1/2 | 0.53 | 2,125 | 2.00 | 1.00 | 12X212RL |

## Cold Shuts

### Electro Galvanized

| Size | Working Load Limit | Inside Length | Inside Width | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|
| in | lbs | | | lbs | |
| 3/16 | 525 | 1.06 | .31 | 0.06 | EG316CS |
| 1/4 | 925 | 1.19 | .38 | 0.10 | EG14CS |
| 5/16 | 1,450 | 1.44 | .81 | 0.20 | EG516CS |
| 3/8 | 2,110 | 1.25 | .63 | 0.25 | EG38CS |
| 1/2" | 3,700 | 1.88 | .75 | 0.38 | EG12CS |

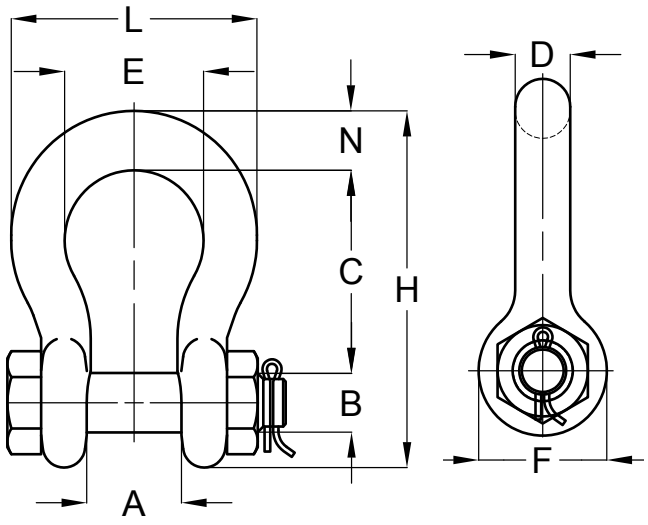





# Missing Links

## Forged Steel- Quenched and Tempered
## Meets or exceeds the performance requirement of Federal Specifications RRC-271S, Type II

| Size | Working Load Limit | Dimensions (in) | | | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | | |
| in | lbs | | | | | | | | lbs | |
| 3/16 | 800 | 0.25 | 0.69 | 0.34 | 0.34 | 1.19 | 0.78 | 0.28 | 0.03 | EG316ML |
| 1/4 | 1,325 | 0.28 | 0.88 | 0.44 | 0.44 | 1.50 | 1.00 | 0.31 | 0.06 | EG14ML |
| 5/16 | 1,950 | 0.34 | 0.94 | 0.47 | 0.47 | 1.69 | 1.16 | 0.38 | 0.13 | EG516ML |
| 3/8 | 2,750 | 0.41 | 1.13 | 0.56 | 0.56 | 2.06 | 1.38 | 0.47 | 0.20 | EG38ML |
| 1/2 | 4,750 | 0.53 | 1.47 | 0.66 | 0.66 | 2.66 | 1.72 | 0.59 | 0.38 | EG12ML |
| 5/8 | 7,250 | 0.66 | 1.81 | 0.78 | 0.81 | 3.31 | 2.09 | 0.75 | 0.73 | EG58ML |
| 3/4 | 10,250 | 0.78 | 2.13 | 0.94 | 1.06 | 3.88 | 2.50 | 0.88 | 1.23 | EG34ML |

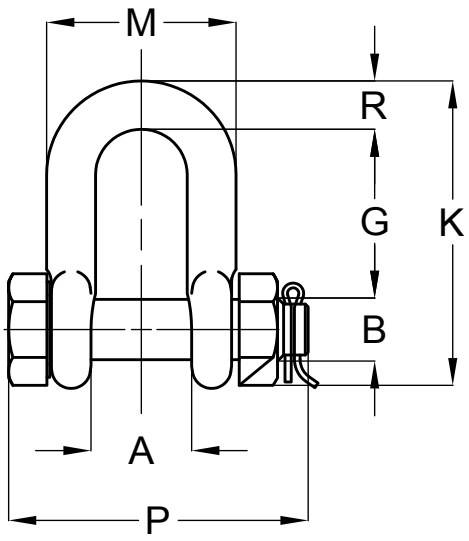


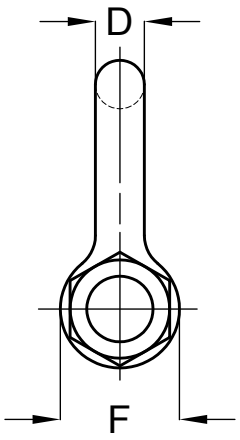

# Bolt Type Anchor Shackles

## Drop Forged, Hot Dipped Galvanized
## To the Federal Specification RR-C-271F Type IVA, Grade A, Class 3

| Nominal Shackle Size | Weight Per Piece in | Working Load Limit | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | H | L | N | |
| in | lbs | tons | | | | | | | | | | |
| 5/16 | 0.22 | 3/4 | 0.53 | 0.38 | 1.22 | 0.31 | 0.84 | 0.75 | 2.09 | 1.47 | 0.31 | HG516BTAS |
| 3/8 | 0.33 | 1 | 0.66 | 0.44 | 1.44 | 0.38 | 1.03 | 0.91 | 2.49 | 1.78 | 0.38 | HG38BTAS |
| 1/2 | 0.79 | 2 | 0.81 | 0.64 | 1.88 | 0.50 | 1.31 | 1.19 | 3.28 | 2.31 | 0.50 | HG12BTAS |
| 5/8 | 1.68 | 3 1/4 | 1.06 | 0.77 | 2.38 | 0.63 | 1.69 | 1.50 | 4.19 | 2.94 | 0.69 | HG58BTAS |
| 3/4 | 2.72 | 4 3/4 | 1.25 | 0.89 | 2.81 | 0.75 | 2.00 | 1.81 | 4.97 | 3.50 | 0.81 | HG34BTAS |
| 7/8 | 3.95 | 6 1/2 | 1.44 | 1.02 | 3.31 | 0.88 | 2.28 | 2.09 | 5.83 | 4.03 | 0.97 | HG78BTAS |
| 1 | 5.66 | 8 1/2 | 1.69 | 1.15 | 3.75 | 1.00 | 2.69 | 2.38 | 6.56 | 4.69 | 1.06 | HG1BTAS |
| 1 1/8 | 8.27 | 9 1/2 | 1.81 | 1.25 | 4.25 | 1.13 | 2.91 | 2.69 | 7.47 | 5.16 | 1.25 | HG118BTAS |
| 1 1/4 | 11.71 | 12 | 2.03 | 1.40 | 4.69 | 1.29 | 3.25 | 3.00 | 8.25 | 5.75 | 1.38 | HG114BTAS |
| 1 3/8 | 15.83 | 13 1/2 | 2.25 | 1.53 | 5.25 | 1.42 | 3.63 | 3.31 | 9.16 | 6.38 | 1.50 | HG138BTAS |
| 1 1/2 | 19 | 17 | 2.38 | 1.66 | 5.75 | 1.53 | 3.88 | 3.63 | 10.00 | 6.88 | 1.62 | HG112BTAS |
| 1 3/4 | 33.91 | 25 | 2.88 | 2.04 | 7.00 | 1.84 | 5.00 | 4.19 | 12.34 | 8.80 | 2.25 | HG134BTAS |
| 2 | 52.25 | 35 | 3.25 | 2.30 | 7.75 | 2.08 | 5.75 | 4.81 | 13.68 | 10.15 | 2.40 | HG2BTAS |
| 2 1/2 | 98.25 | 55 | 4.13 | 2.80 | 10.50 | 2.71 | 7.25 | 5.69 | 17.90 | 12.75 | 3.13 | HG212BTAS |
| 3 | 154 | 85 | 5.00 | 3.30 | 13.00 | 3.12 | 7.88 | 6.50 | 21.50 | 14.62 | 3.62 | HG3BTAS |

Hot dip galvanized forged steel.
Drop Forged, Carbon Steel, Heat Treated,
Quenched and tempered, with alloy pin.
NEVER EXCEED PUBLISHED WORKING LOAD LIMIT. ALWAYS READ
AND UNDERSTAND THE GENERAL WARNINGS AND INFORMATION ON PAGE 4 AND 5.




# Bolt Type Chain Shackles

## Drop Forged, Hot Dipped Galvanized
## To the Federal Specification RR-C-271F Type IVB, Grade A, Class 3

| Nominal Shackle Size | Weight Per Piece in | Working Load Limit | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | D | F | G | K | M | P | R | |
| in | lbs | tons | | | | | | | | | | |
| 3/8 | 0.33 | 1 | 0.66 | 0.44 | 0.38 | 0.92 | 1.28 | 2.31 | 1.42 | 2.17 | 0.38 | HG38BTCS |
| 1/2 | 0.79 | 2 | 0.81 | 0.64 | 0.50 | 1.18 | 1.66 | 3.03 | 1.81 | 2.80 | 0.50 | HG12BTCS |
| 5/8 | 1.68 | 3 1/4 | 1.06 | 0.77 | 0.63 | 1.50 | 2.04 | 3.76 | 2.32 | 3.56 | 0.63 | HG58BTCS |
| 3/4 | 2.72 | 4 3/4 | 1.25 | 0.89 | 0.75 | 1.81 | 2.40 | 4.53 | 2.75 | 4.15 | 0.81 | HG34BTCS |
| 7/8 | 3.95 | 6 1/2 | 1.44 | 1.02 | 0.88 | 2.10 | 2.86 | 5.33 | 3.20 | 4.82 | 0.97 | HG78BTCS |
| 1 | 5.66 | 8 1/2 | 1.69 | 1.15 | 1.00 | 2.38 | 3.24 | 5.94 | 3.69 | 5.39 | 1.00 | HG1BTCS |
| 1 1/8 | 8.27 | 9 1/2 | 1.81 | 1.25 | 1.13 | 2.68 | 3.61 | 6.78 | 4.07 | 5.90 | 1.25 | HG118BTCS |
| 1 1/4 | 11.71 | 12 | 2.03 | 1.40 | 1.25 | 3.00 | 3.97 | 7.50 | 4.53 | 6.69 | 1.38 | HG114BTCS |
| 1 3/8 | 15.83 | 13 1/2 | 2.25 | 1.53 | 1.38 | 3.31 | 4.43 | 8.28 | 5.01 | 7.21 | 1.50 | HG138BTCS |
| 1 1/2 | 19.00 | 17 | 2.38 | 1.66 | 1.50 | 3.62 | 4.87 | 9.05 | 5.38 | 7.73 | 1.62 | HG112BTCS |
| 1 3/4 | 33.91 | 25 | 2.88 | 2.04 | 1.75 | 4.19 | 5.82 | 10.97 | 6.38 | 9.33 | 2.12 | HG134BTCS |
| 2 | 52.25 | 35 | 3.25 | 2.30 | 2.10 | 5.00 | 6.82 | 12.74 | 7.25 | 10.41 | 2.36 | HG2BTCS |
| 2 1/2 | 98.25 | 55 | 4.12 | 2.80 | 2.63 | 5.68 | 8.07 | 14.85 | 9.38 | 13.58 | 2.63 | HG212BTCS |
| 3 | 154.00 | 85 | 5.00 | 3.25 | 3.00 | 6.50 | 8.56 | 16.87 | 11.00 | 15.13 | 3.50 | HG3BTCS |

Hot dip galvanized forged steel.
Drop Forged, Carbon Steel, Heat Treated,
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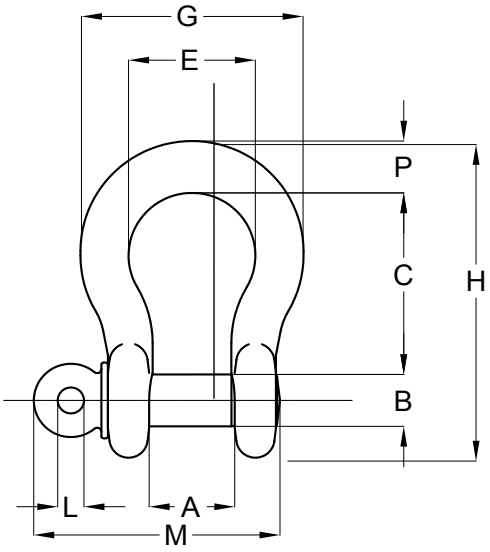
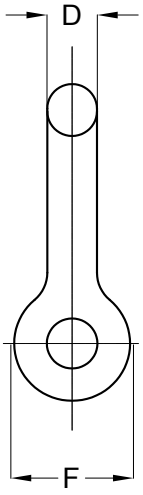


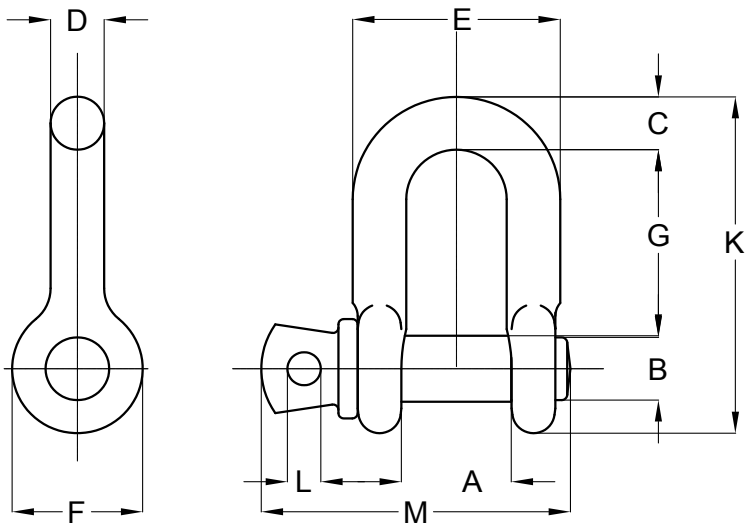



# Screw Pin Anchor Shackles

## Drop Forged, Carbon Steel, Heat Treated
## To Federal Specification RR-C-271F, Type IVA, Grade A, Class 2

| Nominal Size | Working Load Limit | Dimensions (in) | | | | | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | M | | |
| in | lbs | | | | | | | | | | lbs | |
| 1/4 | 1/2 | 0.47 | 0.31 | 0.25 | 0.88 | 0.25 | 0.61 | 0.97 | 1.59 | 1.38 | 0.11 | HG14SPAS |
| 5/16 | 3/4 | 0.53 | 0.38 | 0.31 | 1.03 | 0.31 | 0.75 | 1.16 | 1.91 | 1.66 | 0.17 | HG516SPAS |
| 3/8 | 1 | 0.66 | 0.44 | 0.38 | 1.25 | 0.38 | 0.91 | 1.41 | 2.30 | 2.03 | 0.28 | HG38SPAS |
| 7/16 | 1 1/2 | 0.75 | 0.50 | 0.44 | 1.44 | 0.44 | 1.06 | 1.63 | 2.66 | 2.38 | 0.43 | HG716SPAS |
| 1/2 | 2 | 0.81 | 0.63 | 0.50 | 1.63 | 0.50 | 1.19 | 1.81 | 3.03 | 2.69 | 0.59 | HG12SPAS |
| 5/8 | 3 1/4 | 1.06 | 0.75 | 0.62 | 2.00 | 0.63 | 1.50 | 2.31 | 3.75 | 3.34 | 1.25 | HG58SPAS |
| 3/4 | 4 3/4 | 1.25 | 0.88 | 0.81 | 2.38 | 0.75 | 1.81 | 2.75 | 4.53 | 3.97 | 2.63 | HG34SPAS |
| 7/8 | 6 1/2 | 1.44 | 1.00 | 0.97 | 2.81 | 0.88 | 2.09 | 3.19 | 5.33 | 4.50 | 3.16 | HG78SPAS |
| 1 | 8 1/2 | 1.69 | 1.13 | 1.00 | 3.19 | 1.00 | 2.38 | 3.69 | 5.94 | 5.07 | 4.75 | HG1SPAS |
| 1 1/8 | 9 1/2 | 1.81 | 1.25 | 1.25 | 3.58 | 1.13 | 2.69 | 4.06 | 6.78 | 5.59 | 6.75 | HG118SPAS |
| 1 1/4 | 12 | 2.03 | 1.38 | 1.38 | 3.94 | 1.25 | 3.00 | 4.53 | 7.50 | 6.16 | 9.06 | HG114SPAS |
| 1 3/8 | 13 1/2 | 2.25 | 1.50 | 1.50 | 4.38 | 1.38 | 3.31 | 5.00 | 8.28 | 6.84 | 11.63 | HG138SPAS |
| 1 1/2 | 17 | 2.38 | 1.63 | 1.62 | 4.81 | 1.50 | 3.62 | 5.38 | 9.06 | 7.35 | 15.95 | HG112SPAS |
| 1 3/4 | 25 | 2.88 | 2.00 | 2.12 | 5.75 | 1.75 | 4.19 | 6.38 | 10.97 | 9.08 | 26.75 | HG134SPAS |
| 2 | 35 | 3.25 | 2.25 | 2.00 | 6.75 | 2.00 | 4.81 | 7.25 | 12.28 | 10.34 | 42.31 | HG2SPAS |
| 2 1/2 | 55 | 4.13 | 2.75 | 2.62 | 8.00 | 2.62 | 5.69 | 9.38 | 14.84 | 13.00 | 71.75 | HG212SPAS |
| 3 | - | - | - | - | - | - | - | - | - | - | - | HG3SPAS |

NEVER EXCEED PUBLISHED WORKING LOAD LIMIT. ALWAYS READ
AND UNDERSTAND THE GENERAL WARNINGS AND INFORMATION ON PAGE 4 AND 5.

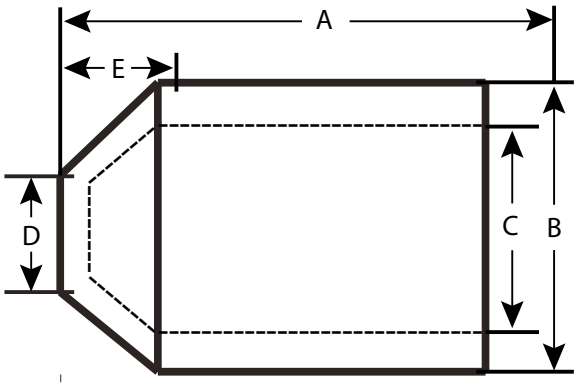



# Screw Pin Chain Shackles

## Drop Forged, Hot Dipped Galvanized
## To Federal Specification RR-C-271F, Type IVB, Grade A, Class 2

| Nominal Shackle Size | Weight Per Piece in | Working Load Limit | Dimensions (in) | | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | K | L | M | |
| in | lbs | tons | | | | | | | | | | | |
| 1/4 | 0.11 | 1/2 | 0.47 | 0.31 | 0.25 | 0.25 | 0.97 | 0.62 | 0.97 | 1.59 | 0.19 | 1.43 | HG14SPCS |
| 5/16 | 0.17 | 3/4 | 0.53 | 0.38 | 0.31 | 0.31 | 1.15 | 0.75 | 1.07 | 1.91 | 0.22 | 1.71 | HG516SPCS |
| 3/8 | 0.28 | 1 | 0.66 | 0.44 | 0.38 | 0.38 | 1.42 | 0.92 | 1.28 | 2.31 | 0.25 | 2.02 | HG38SPCS |
| 7/16 | 0.43 | 1 1/2 | 0.75 | 0.50 | 0.44 | 0.44 | 1.63 | 1.06 | 1.48 | 2.67 | 0.31 | 2.37 | HG716SPCS |
| 1/2 | 0.59 | 2 | 0.81 | 0.63 | 0.50 | 0.50 | 1.81 | 1.18 | 1.66 | 3.03 | 0.38 | 2.69 | HG12SPCS |
| 5/8 | 1.25 | 3 1/4 | 1.06 | 0.75 | 0.63 | 0.63 | 2.32 | 1.50 | 2.04 | 3.76 | 0.44 | 3.34 | HG58SPCS |
| 3/4 | 2.63 | 4 3/4 | 1.25 | 0.88 | 0.81 | 0.75 | 2.75 | 1.81 | 2.40 | 4.53 | 0.50 | 3.97 | HG34SPCS |
| 7/8 | 3.16 | 6 1/2 | 1.44 | 1.00 | 0.97 | 0.88 | 3.20 | 2.10 | 2.86 | 5.33 | 0.50 | 4.50 | HG78SPCS |
| 1 | 4.75 | 8 1/2 | 1.69 | 1.13 | 1.00 | 1.00 | 3.69 | 2.38 | 3.24 | 5.94 | 0.56 | 5.13 | HG1SPCS |
| 1 1/8 | 6.75 | 9 1/2 | 1.81 | 1.25 | 1.25 | 1.13 | 4.07 | 2.69 | 3.61 | 6.78 | 0.63 | 5.71 | HG118SPCS |
| 1 1/4 | 9.06 | 12 | 2.03 | 1.38 | 1.38 | 1.25 | 4.53 | 3.00 | 3.97 | 7.50 | 0.69 | 6.25 | HG114SPCS |
| 1 3/8 | 11.63 | 13 1/2 | 2.25 | 1.50 | 1.50 | 1.38 | 5.01 | 3.31 | 4.43 | 8.28 | 0.75 | 6.53 | HG138SPCS |
| 1 1/2 | 15.95 | 17 | 2.38 | 1.63 | 1.62 | 1.50 | 5.38 | 3.62 | 4.87 | 9.05 | 0.81 | 7.33 | HG112SPCS |
| 1 3/4 | 26.75 | 25 | 2.88 | 2.00 | 2.12 | 1.75 | 6.38 | 4.19 | 5.78 | 10.97 | 1.00 | 9.06 | HG134SPCS |
| 2 | 42.31 | 35 | 3.25 | 2.25 | 2.36 | 2.10 | 7.25 | 5.00 | 6.77 | 12.74 | 1.13 | 10.35 | HG2SPCS |

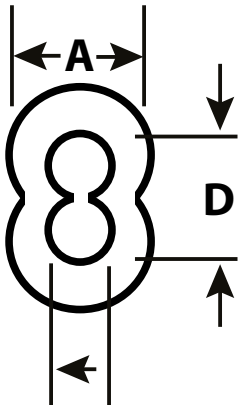
NEVER EXCEED PUBLISHED WORKING LOAD LIMIT. ALWAYS READ
AND UNDERSTAND THE GENERAL WARNINGS AND INFORMATION ON PAGE 4 AND 5.

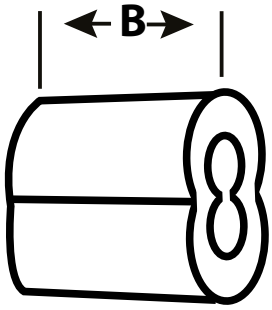



# Carbon Steel Sleeves (for Flemish Eyes)

## Zinc Plated

| Size | Weight Per Piece in | Dimensions (in) | | | | | Part No. |
|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | |
| in | lbs | | | | | | |
| 1/4 | 0.05 | 1.00 | 0.66 | 0.47 | 0.31 | 0.31 | CSF14 |
| 5/16 | 0.15 | 1.50 | 0.91 | 0.62 | 0.44 | 0.44 | CSF516 |
| 3/8 | 0.13 | 1.50 | 0.91 | 0.66 | 0.47 | 0.47 | CSF38 |
| 7/16 | 0.33 | 2.00 | 1.22 | 0.85 | 0.55 | 0.55 | CSF716 |
| 1/2 | 0.28 | 2.00 | 1.22 | 0.91 | 0.63 | 0.63 | CSF12 |
| 9/16 | 0.64 | 2.75 | 1.47 | 1.03 | 0.69 | 0.69 | CSF916 |
| 5/8 | 0.56 | 2.75 | 1.47 | 1.09 | 0.75 | 0.75 | CSF58 |
| 3/4 | 0.90 | 3.19 | 1.72 | 1.28 | 0.91 | 0.91 | CSF34 |
| 7/8 | 1.40 | 3.56 | 2.03 | 1.53 | 1.03 | 1.03 | CSF78 |
| 1 | 1.90 | 4.00 | 2.28 | 1.72 | 1.16 | 1.16 | CSF1 |
| 1 1/8 | 2.60 | 4.81 | 2.50 | 1.94 | 1.28 | 1.28 | CSF118 |
| 1 1/4 | 3.50 | 5.19 | 2.78 | 2.16 | 1.44 | 1.44 | CSF114 |
| 1 3/8 | 4.30 | 5.81 | 3.00 | 2.38 | 1.56 | 1.56 | CSF138 |
| 1 1/2 | 5.00 | 6.25 | 3.25 | 2.63 | 1.69 | 1.69 | CSF112 |
| 1 3/4 | 8.00 | 7.25 | 3.84 | 3.13 | 1.94 | 1.94 | CSF134 |
| 2 | 12.00 | 8.50 | 4.38 | 3.63 | 2.25 | 2.25 | CSF2 |
| 2 1/4 | 20.00 | 9.56 | 5.03 | 4.03 | 2.50 | 2.50 | CSF214 |
| 2 1/2 | 24.00 | 10.50 | 5.50 | 4.50 | 2.75 | 2.75 | CSF212 |
| 2 3/4 | 30.00 | 11.50 | 5.75 | 4.70 | 3.00 | 3.00 | CSF234 |
| 3 | 31.00 | 12.00 | 6.00 | 5.00 | 3.25 | 3.25 | CSF3 |

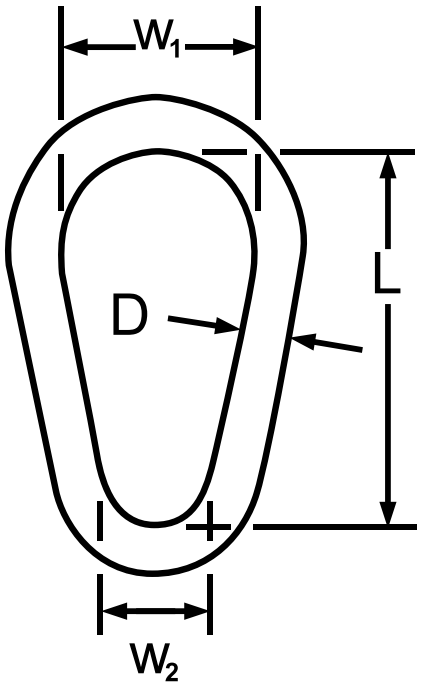



# Hourglass/Duplex Sleeves

## Aluminum, Copper & Zinc over Copper
## To Federal Specification FF-C-450, Type III, Class I

| Rope Size & Sleeve Size | Dimensions (in) | | | | Weight Per Piece in | Aluminum Part No. | Copper Part No. | Zinc Over Copper Part No. |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | | | | |
| in | | | | | lbs | | | |
| 1/16 | 0.17 | 0.25 | 0.08 | 0.38 | 0.0009 | AS116 | CS116 | ZCS116 |
| 3/32 | 0.28 | 0.40 | 0.13 | 0.50 | 0.0032 | AS332 | CS332 | ZCS332 |
| 1/8 | 0.34 | 0.50 | 0.16 | 0.63 | 0.0064 | AS18 | CS18 | ZCS18 |
| 5/32 | 0.38 | 0.56 | 0.19 | 0.69 | 0.0081 | AS532 | CS532 | ZCS532 |
| 3/16 | 0.44 | 0.67 | 0.22 | 1.00 | 0.0156 | AS316 | CS316 | ZCS316 |
| 1/4 | 0.54 | 0.82 | 0.29 | 1.13 | 0.0252 | AS14 | CS14 | ZCS14 |
| 5/16 | 0.69 | 1.03 | 0.38 | 1.25 | 0.0451 | AS516 | CS516 | ZCS516 |
| 3/8 | 0.75 | 1.16 | 0.44 | 1.44 | 0.0607 | AS38 | CS38 | ZCS38 |

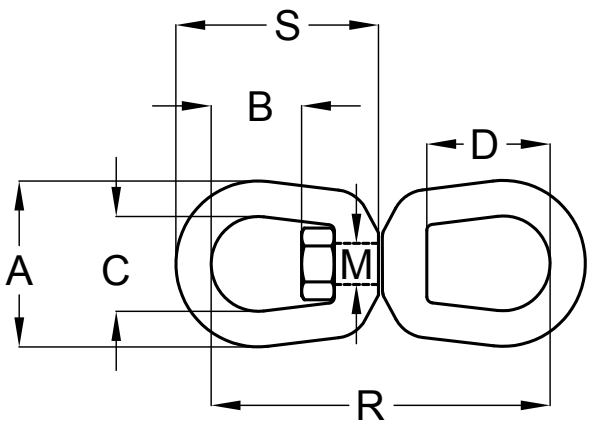


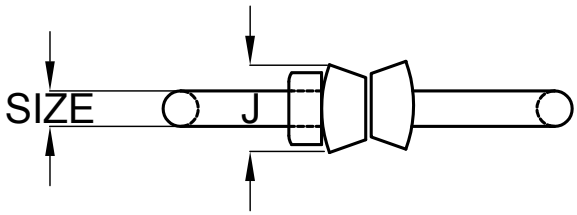



## Weldless Sling Links
### Forged Carbon Steel

| Size | Working Load Limit | Dimensions (in) | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | E | F | | |
| in | lbs | | | | | | lbs | |
| 5/8 | - | 1.87 | 1.25 | 5.00 | 3.75 | 0.63 | 1.06 | HG58PSL |
| 3/4 | 6,000 | 2.25 | 1.50 | 6.00 | 4.50 | 0.75 | 1.88 | HG34PSL |
| 1 | 10,800 | 3.00 | 2.00 | 8.00 | 6.00 | 1.00 | 4.35 | HG1PSL |

Forged carbon steel- Quenched and Tempered.



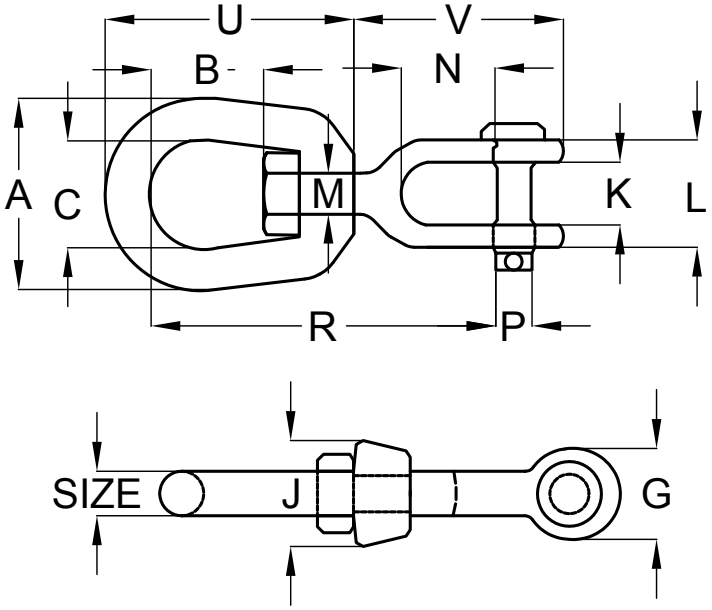



# Eye & Eye Swivels

## Hot Dip Galvanized

## To Federal Specification RR-C-271D, Type VII, Class 2

| Size | Working Load Limit | Dimensions (in) | | | | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | J | M | R | S | | |
| in | lbs | | | | | | | | | lbs | |
| 1/4 | 850 | 1.25 | 0.69 | 0.75 | 1.06 | 0.69 | 0.31 | 2.94 | 1.69 | 0.21 | 14EES |
| 5/16 | 1,250 | 1.63 | 0.81 | 1.00 | 1.25 | 0.81 | 0.38 | 3.56 | 2.06 | 0.39 | 516EES |
| 3/8 | 2,250 | 2.00 | 0.94 | 1.25 | 1.50 | 1.00 | 0.50 | 4.31 | 2.50 | 0.71 | 38EES |
| 1/2 | 3,600 | 2.50 | 1.31 | 1.50 | 2.00 | 1.31 | 0.63 | 5.44 | 3.19 | 1.32 | 12EES |
| 5/8 | 5,200 | 3.00 | 1.56 | 1.75 | 2.38 | 1.50 | 0.75 | 6.56 | 3.88 | 2.49 | 58EES |
| 3/4 | 7,200 | 3.50 | 1.75 | 2.00 | 2.63 | 1.88 | 0.88 | 7.19 | 4.31 | 4.02 | 34EES |
| 7/8 | 10,000 | 4.00 | 2.06 | 2.25 | 3.06 | 2.13 | 1.00 | 8.38 | 5.00 | 6.25 | 78EES |
| 1 | 12,500 | 4.50 | 2.31 | 2.50 | 3.50 | 2.38 | 1.13 | 9.63 | 5.75 | 8.95 | 1EES |
| 1-1/4 | 18000 | 5.63 | 2.69 | 3.13 | 3.69 | 3.00 | 1.50 | 11.44 | 6.75 | 16.37 | 114EES |
| 1 - 1/2 | 45,200 | 7.09 | 3.88 | 4.09 | 3.88 | 3.75 | 2.25 | 16.69 | 9.91 | 45.79 | 112EES |



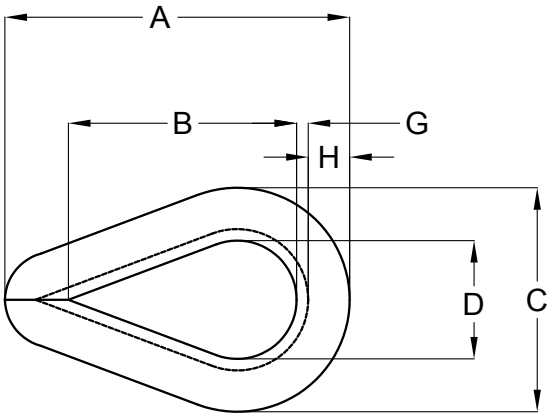


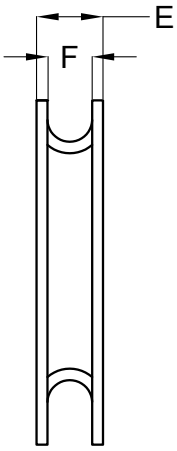

# Jaw & Eye Swivels

## Hot Dip Galvanized

## To Federal Specification RR-C-271D, Type VII, Class 3

| Size | Working Load Limit | Dimensions (in) | | | | | | | | | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | G | J | K | L | M | N | P | R | U | V | | |
| in | lbs | | | | | | | | | | | | | | lbs | |
| 1/4 | 850 | 1.25 | 0.69 | 0.75 | 0.69 | 0.69 | 0.47 | 1.03 | 0.31 | 0.88 | 0.25 | 2.63 | 1.69 | 1.69 | 0.21 | 14JES |
| 5/16 | 1,250 | 1.63 | 0.81 | 1.00 | 0.81 | 0.81 | 0.50 | 1.13 | 0.38 | 0.88 | 0.31 | 2.94 | 2.06 | 1.81 | 0.34 | 516JES |
| 3/8 | 2,250 | 2.00 | 0.94 | 1.25 | 1.00 | 1.00 | 0.63 | 1.41 | 0.50 | 1.06 | 0.38 | 3.63 | 2.50 | 2.25 | 0.66 | 38JES |
| 1/2 | 3,600 | 2.50 | 1.31 | 1.50 | 1.31 | 1.31 | 0.75 | 1.75 | 0.63 | 1.31 | 0.50 | 4.50 | 3.19 | 2.88 | 1.34 | 12JES |
| 5/8 | 5,200 | 3.00 | 1.56 | 1.75 | 1.63 | 1.50 | 0.94 | 2.06 | 0.75 | 1.50 | 0.63 | 5.31 | 3.88 | 3.44 | 2.48 | 58JES |
| 3/4 | 7,200 | 3.50 | 1.75 | 2.00 | 1.88 | 1.88 | 1.13 | 2.53 | 0.88 | 1.75 | 0.75 | 6.06 | 4.31 | 4.00 | 3.88 | 34JES |
| 7/8 | 10,000 | 4.00 | 2.06 | 2.25 | 2.13 | 2.13 | 1.19 | 2.75 | 1.00 | 2.06 | 0.88 | 7.00 | 5.00 | 4.53 | 5.87 | 78JES |
| 1 | 12,500 | 4.50 | 2.31 | 2.50 | 2.63 | 2.38 | 1.75 | 3.72 | 1.13 | 2.81 | 1.13 | 8.56 | 5.75 | 5.94 | 9.84 | 1JES |
| 1 - 1/4 | 18,000 | 5.69 | 2.69 | 3.13 | 3.13 | 3.00 | 2.06 | 4.31 | 1.63 | 2.81 | 1.38 | 9.75 | 7.06 | 6.38 | 15.75 | 114JES |
| 1 - 1/2 | 45,200 | 7.00 | 3.88 | 4.00 | 5.63 | 4.00 | 2.88 | 6.00 | 2.25 | 4.44 | 2.25 | 14.25 | 10.00 | 10.84 | 54.75 | 112JES |

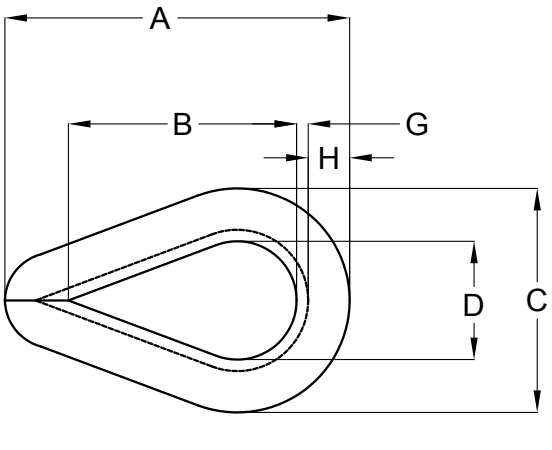


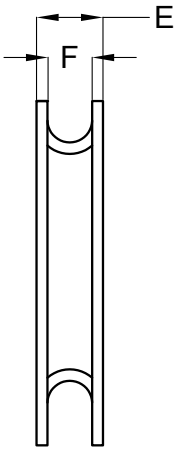




# Heavy Duty Wire Rope Thimbles

## Hot Dipped Galvanized
## To Federal Specification FF-T-276 Type 3

| Size | Weight Per Piece | Dimensions (in) | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | |
| in | lbs | | | | | | | | | |
| 1/4 | 0.07 | 2.19 | 1.62 | 1.50 | 0.88 | 0.41 | 0.28 | 0.06 | 0.25 | HDT14 |
| 5/16 | 0.12 | 2.50 | 1.88 | 1.81 | 1.06 | 50.00 | 0.34 | 0.08 | 0.30 | HDT516 |
| 3/8 | 0.22 | 2.88 | 2.12 | 2.12 | 1.12 | 0.63 | 0.41 | 0.11 | 0.39 | HDT38 |
| 7/16 | 0.35 | 3.25 | 2.38 | 2.38 | 1.25 | 0.72 | 0.47 | 0.12 | 0.45 | HDT716 |
| 1/2 | 0.51 | 3.54 | 2.60 | 2.63 | 1.46 | 0.84 | 0.53 | 0.15 | 0.48 | HDT12 |
| 9/16 | 0.51 | 3.54 | 2.60 | 2.63 | 1.46 | 0.89 | 0.59 | 0.15 | 0.48 | HDT916 |
| 5/8 | 0.76 | 4.25 | 3.25 | 3.12 | 1.75 | 1.00 | 0.66 | 0.16 | 0.53 | HDT58 |
| 3/4 | 1.58 | 5.00 | 3.75 | 3.81 | 2.00 | 1.22 | 0.78 | 0.22 | 0.69 | HDT34 |
| 7/8 | 1.78 | 5.50 | 4.25 | 4.25 | 2.25 | 1.38 | 0.94 | 0.22 | 0.78 | HDT78 |
| 1 | 3.14 | 6.12 | 4.50 | 4.75 | 2.50 | 1.56 | 1.06 | 0.25 | 0.88 | HDT1 |
| 1-1/8-1-1/4 | 4.00 | 7.00 | 5.12 | 5.88 | 2.88 | 1.88 | 1.31 | 0.25 | 1.25 | HDT118 |
| 1-1/4-1-3/8 | 8.86 | 9.08 | 6.50 | 6.81 | 3.50 | 2.25 | 1.44 | 0.37 | 1.29 | HDT114 |
| 1-3/8-1-1/2 | 12.95 | 9.00 | 6.25 | 7.12 | 3.50 | 2.62 | 1.56 | 0.50 | 1.31 | HDT138 |
| 1 5/8 | 17.00 | 11.25 | 8.00 | 8.12 | 4.00 | 3.00 | 1.72 | 0.50 | 1.38 | HDT158 |
| 1 3/4 | 17.75 | 12.19 | 9.00 | 8.50 | 4.50 | 3.06 | 1.84 | 0.50 | 1.50 | HDT134 |
| 1-7/8 - 2 | 27.75 | 15.12 | 12.00 | 10.38 | 6.00 | 3.38 | 2.09 | 0.50 | 1.69 | HDT178 |
| 2-1/4 | 39.50 | 17.50 | 14.00 | 11.88 | 7.00 | 3.88 | 2.38 | 0.62 | 1.82 | HDT214 |
| 2-1/2 | 63.50 | 22.25 | 17.50 | 12.75 | 8.00 | 4.38 | 2.65 | 0.62 | 2.50 | HDT212 |

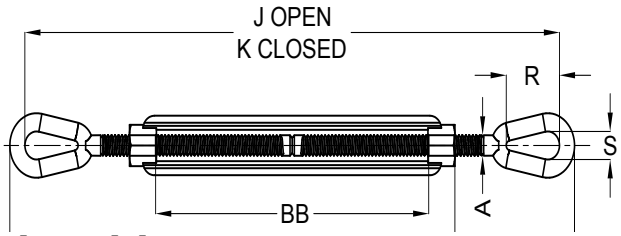



# Regular Duty Wire Rope Thimbles

## Hot Dipped Galvanized
## To Federal Specification FF-T-276 Type 2

| Size | Weight Per Piece | Dimensions (in) | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | |
| in | lbs | | | | | | | |
| 1/8 | 0.04 | 1.90 | 1.10 | 1.37 | 0.71 | 0.28 | 0.05 | RDT18 |
| 3/16 | 0.04 | 1.90 | 1.10 | 1.37 | 0.71 | 0.33 | 0.05 | RDT316 |
| 1/4 | 0.04 | 1.90 | 1.10 | 1.37 | 0.71 | 0.37 | 0.05 | RDT14 |
| 5/16 | 0.04 | 2.10 | 1.20 | 1.60 | 0.81 | 0.43 | 0.05 | RDT516 |
| 3/8 | 0.07 | 2.32 | 1.45 | 1.70 | 0.94 | 0.55 | 0.06 | RDT38 |
| 1/2 | 0.13 | 2.71 | 1.73 | 1.93 | 1.14 | 0.69 | 0.08 | RDT12 |
| 5/8 | 0.35 | 3.39 | 2.36 | 2.24 | 1.45 | 0.92 | 0.11 | RDT58 |
| 3/4 | 0.47 | 3.70 | 2.48 | 2.48 | 1.57 | 1.10 | 0.15 | RDT34 |
| 7/8 | 0.85 | 4.89 | 3.42 | 3.54 | 2.20 | 1.32 | 0.15 | RDT78 |
| 1 | 0.98 | 5.60 | 3.93 | 4.01 | 2.51 | 1.46 | 0.15 | RDT1 |



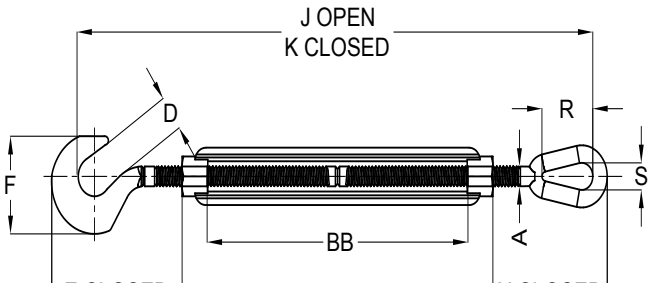

# Eye & Eye Turnbuckles

## Drop Forged, Hot Dipped Galvanized

## To Federal Specification FF-T791, Type 1, Form 1, Class 4 & ASTM F-1145

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | J | K | M | N | R | S | X | BB | |
| in | lbs | lbs | | Open | Closed | Open | Closed | | | Closed | | |
| 1/4x4 | 500 | 0.30 | 0.25 | 11.80 | 7.80 | 12.25 | 8.25 | 0.78 | 0.34 | 1.75 | 4.07 | HG14X4EE |
| 5/16x4-1/2 | 800 | 0.47 | 0.31 | 13.56 | 9.06 | 14.12 | 9.62 | 0.94 | 0.44 | 2.09 | 4.58 | HG516X412EE |
| 5/16x6 | 1,200 | 0.75 | 0.38 | 17.47 | 11.47 | 18.16 | 12.16 | 1.12 | 0.53 | 2.52 | 6.10 | HG38X6EE |
| 1/2x6 | 2,200 | 1.60 | 0.50 | 19.08 | 13.08 | 19.96 | 13.96 | 1.44 | 0.72 | 3.23 | 6.03 | HG12X6EE |
| 1/2X9 | 2,200 | 1.83 | 0.50 | 25.08 | 16.08 | 25.96 | 16.96 | 1.44 | 0.72 | 3.23 | 9.00 | HG12X9EE |
| 1/2x12 | 2,200 | 2.08 | 0.50 | 31.08 | 19.08 | 31.96 | 19.96 | 1.44 | 0.72 | 3.23 | 12.36 | HG12X12EE |
| 5/8x6 | 3,500 | 2.75 | 0.63 | 20.68 | 14.68 | 21.68 | 15.68 | 1.75 | 0.88 | 3.90 | 6.03 | HG58X6EE |
| 5/8x9 | 3,500 | 3.13 | 0.63 | 26.68 | 17.68 | 27.68 | 18.68 | 1.75 | 0.88 | 3.90 | 3.90 | HG58X9EE |
| 5/8x12 | 3,500 | 3.50 | 0.63 | 32.68 | 20.68 | 33.68 | 21.68 | 1.75 | 0.88 | 3.90 | 12.39 | HG58X12EE |
| 3/4x6 | 5,200 | 3.89 | 0.75 | 22.38 | 16.38 | 23.62 | 17.62 | 2.09 | 1.00 | 4.69 | 6.13 | HG34X6EE |
| 3/4X9 | 5,200 | 4.61 | 0.75 | 28.38 | 19.38 | 29.62 | 20.62 | 2.09 | 1.00 | 4.69 | 6.00 | HG34X9EE |
| 3/4x12 | 5,200 | 5.43 | 0.75 | 34.38 | 22.38 | 35.62 | 23.62 | 2.09 | 1.00 | 4.69 | 12.59 | HG34X12EE |
| 3/4x18 | 5,200 | 7.25 | 0.75 | 46.38 | 28.38 | 47.62 | 29.62 | 2.09 | 1.00 | 4.69 | 18.53 | HG34X18EE |
| 7/8x12 | 7,200 | 8.10 | 0.88 | 35.32 | 23.32 | 36.82 | 24.82 | 2.38 | 1.25 | 5.10 | 12.16 | HG78X12EE |
| 7/8X18 | 7,200 | 9.95 | 0.88 | 47.32 | 29.32 | 48.82 | 30.82 | 2.38 | 1.25 | 5.10 | 18.63 | HG78X18EE |
| 1X6 | 10,000 | 9.33 | 1.00 | 25.97 | 19.97 | 27.72 | 21.72 | 3.00 | 1.44 | 6.36 | 6.18 | HG1X6EE |
| 1X12 | 10,000 | 11.93 | 1.00 | 37.97 | 25.97 | 39.97 | 27.72 | 3.00 | 1.44 | 6.36 | 12.18 | HG1X12EE |
| 1X18 | 10,000 | 14.00 | 1.00 | 49.97 | 31.97 | 51.72 | 33.72 | 3.00 | 1.44 | 6.36 | 18.18 | HG1X18EE |
| 1X24 | 10,000 | 17.25 | 1.00 | 61.97 | 37.97 | 63.72 | 39.72 | 3.00 | 1.44 | 6.36 | 24.84 | HG1X24EE |
| 1-1/4x12 | 15,200 | 19.00 | 1.25 | 40.31 | 28.31 | 42.56 | 30.56 | 3.56 | 1.81 | 7.72 | 12.06 | HG114X12EE |
| 1-1/4x18 | 15,200 | 23.00 | 1.25 | 52.31 | 34.31 | 54.56 | 36.56 | 3.56 | 1.81 | 7.72 | 18.06 | HG114X18EE |
| 1-1/4x24 | 15,200 | 27.00 | 1.25 | 64.31 | 40.31 | 66.56 | 42.56 | 3.56 | 1.81 | 7.72 | 24.62 | HG114X24EE |
| 1-1/2x12 | 21,400 | 27.50 | 1.50 | 42.50 | 30.50 | 45.00 | 33.00 | 4.06 | 2.12 | 8.62 | 12.32 | HG112X12EE |
| 1-1/2x18 | 21,400 | 31.00 | 1.50 | 54.50 | 36.50 | 57.00 | 39.00 | 4.06 | 2.12 | 8.62 | 18.32 | HG112X18EE |
| 1-1/2x24 | 21,400 | 37.50 | 1.50 | 66.50 | 42.50 | 69.00 | 45.00 | 4.06 | 2.12 | 8.62 | 24.94 | HG112X24EE |
| 1-3/4x18 | 28,000 | 52.50 | 1.75 | 57.38 | 39.38 | 60.38 | 42.38 | 4.62 | 2.38 | 10.00 | 18.37 | HG134X18EE |
| 1-3/4x24 | 28,000 | 58.00 | 1.75 | 69.38 | 45.38 | 72.38 | 48.38 | 4.62 | 2.38 | 10.00 | 24.37 | HG134X24EE |
| 2x24 | 37,000 | 85.25 | 2.00 | 75.69 | 51.69 | 79.19 | 55.19 | 5.57 | 2.69 | 13.09 | 24.48 | HG2X24EE |
| 2-1/2x24 | 60,000 | 149.00 | 2.50 | 79.18 | 55.18 | 83.18 | 59.18 | 6.49 | 3.12 | 13.76 | 24.60 | HG212X24EE |
| 2-3/4x24 | 75,000 | 174.00 | 2.75 | 81.34 | 57.34 | 85.34 | 61.84 | 7.00 | 3.25 | 15.09 | 24.65 | HG234X24EE |

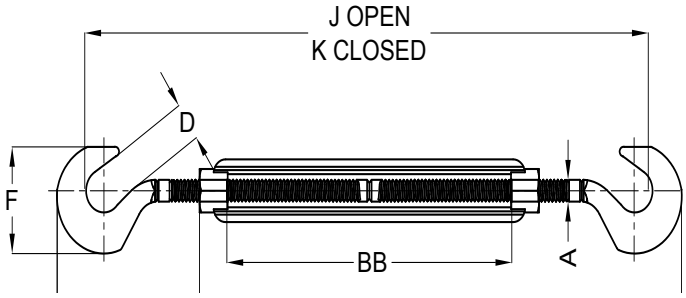
Hot dip galvanized • End fittings are quenched and tempered, bodies are normalized
NEVER EXCEED PUBLISHED WORKING LOAD LIMIT. ALWAYS READ
AND UNDERSTAND THE GENERAL WARNINGS AND INFORMATION ON PAGE 4 AND 5.




# Hook & Eye Turnbuckles

## Drop Forged, Hot Dipped Galvanized
## To Federal Specification FF-T791, Type 1, Form 1, Class 6 & ASTM F-1145

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | K | P | |
| in | lbs | lbs | | | Closed | Closed | Closed | | | | | Closed | |
| 1/4 x 4 | 400 | 0.30 | 0.25 | 0.45 | 1.59 | 11.94 | 7.94 | 1.27 | 4.00 | 0.78 | 0.34 | 1.75 | HG14X4HE |
| 5/16 x 4 1/2 | 700 | 0.47 | 0.31 | 0.50 | 1.94 | 13.81 | 9.31 | 1.50 | 4.50 | 0.94 | 0.44 | 2.09 | HG516X412HE |
| 3/8 x 6 | 1,000 | 0.75 | 0.38 | 0.56 | 2.30 | 17.72 | 11.72 | 1.77 | 6.00 | 1.12 | 0.53 | 2.52 | HG38X6HE |
| 1/2 x 6 | 1,500 | 1.60 | 0.50 | 0.66 | 2.94 | 19.38 | 13.38 | 2.28 | 6.00 | 1.44 | 0.72 | 3.23 | HG12X6HE |
| 1/2 x 9 | 1,500 | 1.83 | 0.50 | 0.66 | 2.94 | 25.38 | 16.38 | 2.28 | 9.00 | 1.44 | 0.72 | 3.23 | HG12X9HE |
| 1/2 x 12 | 1,500 | 2.08 | 0.50 | 0.66 | 2.94 | 31.38 | 19.38 | 2.28 | 12.00 | 1.44 | 0.72 | 3.23 | HG12X12HE |
| 5/8 x 6 | 2,250 | 2.75 | 0.63 | 0.84 | 3.69 | 21.25 | 15.25 | 2.81 | 6.00 | 1.75 | 0.88 | 3.90 | HG58X6HE |
| 5/8 x 9 | 2,250 | 3.13 | 0.63 | 0.84 | 3.69 | 27.25 | 18.25 | 2.81 | 9.00 | 1.75 | 0.88 | 3.90 | HG58X9HE |
| 5/8 x 12 | 2,250 | 3.50 | 0.63 | 0.84 | 3.69 | 33.25 | 21.25 | 2.81 | 12.00 | 1.75 | 0.88 | 3.90 | HG58X12HE |
| 3/4 x 6 | 3,000 | 3.89 | 0.75 | 0.98 | 4.52 | 23.28 | 17.28 | 3.33 | 6.00 | 2.09 | 1.00 | 4.69 | HG34X6HE |
| 3/4 x 9 | 3,000 | 4.61 | 0.75 | 0.98 | 4.52 | 29.28 | 20.28 | 3.33 | 9.00 | 2.09 | 1.00 | 4.69 | HG34X9HE |
| 3/4 x 12 | 3,000 | 5.43 | 0.75 | 0.98 | 4.52 | 35.28 | 23.28 | 3.33 | 12.00 | 2.09 | 1.00 | 4.69 | HG34X12HE |
| 3/4 x 18 | 3,000 | 7.25 | 0.75 | 0.98 | 4.52 | 47.28 | 29.28 | 3.33 | 18.00 | 2.09 | 1.00 | 4.69 | HG34X18HE |
| 7/8 x 12 | 4,000 | 8.10 | 0.88 | 1.13 | 5.19 | 37.00 | 25.00 | 3.78 | 12.00 | 2.38 | 1.25 | 5.10 | HG78X12HE |
| 1 x 6 | 5,000 | 9.33 | 1.00 | 1.25 | 5.84 | 26.69 | 20.69 | 4.25 | 6.00 | 3.00 | 1.44 | 6.36 | HG1X6HE |
| 1 x 12 | 5,000 | 11.93 | 1.00 | 1.25 | 5.84 | 38.69 | 26.69 | 4.25 | 12.00 | 3.00 | 1.44 | 6.36 | HG1X12HE |

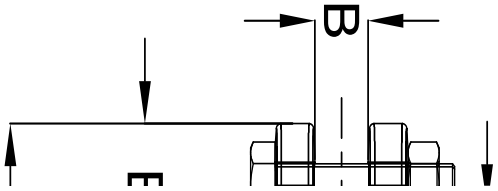



# Hook & Hook Turnbuckles

## Drop Forged, Hot Dipped Galvanized
## To Federal Specification FF-T791, Type 1, Form 1, Class 5 & ASTM F-1145

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | |
| in | lbs | lbs | | | Closed | Open | Closed | | | |
| 1/4 x 4 | 400 | 0.30 | 0.25 | 0.45 | 1.59 | 11.94 | 7.94 | 1.27 | 4.00 | HG14X4HH |
| 5/16 x 4 1/2 | 700 | 0.47 | 0.31 | 0.50 | 1.94 | 13.81 | 9.31 | 1.50 | 4.50 | HG516X412HH |
| 3/8 x 6 | 1,000 | 0.75 | 0.38 | 0.56 | 2.30 | 17.72 | 11.72 | 1.77 | 6.00 | HG38X6HH |
| 1/2 x 6 | 1,500 | 1.60 | 0.50 | 0.66 | 2.94 | 19.38 | 13.38 | 2.28 | 6.00 | HG12X6HH |
| 1/2 x 9 | 1,500 | 1.83 | 0.50 | 0.66 | 2.94 | 25.38 | 16.38 | 2.28 | 9.00 | HG12X9HH |
| 1/2 x 12 | 1,500 | 2.08 | 0.50 | 0.66 | 2.94 | 31.38 | 19.38 | 2.28 | 12.00 | HG12X12HH |
| 5/8 x 6 | 2,250 | 2.75 | 0.63 | 0.84 | 3.69 | 21.25 | 15.25 | 2.81 | 6.00 | HG58X6HH |
| 5/8 x 9 | 2,250 | 3.13 | 0.63 | 0.84 | 3.69 | 27.25 | 18.25 | 2.81 | 9.00 | HG58X9HH |
| 5/8 x 12 | 2,250 | 3.50 | 0.63 | 0.84 | 3.69 | 33.25 | 21.25 | 2.81 | 12.00 | HG58X12HH |
| 3/4 x 6 | 3,000 | 3.89 | 0.75 | 0.98 | 4.52 | 23.28 | 17.28 | 3.33 | 6.00 | HG34X6HH |
| 3/4 x 9 | 3,000 | 4.61 | 0.75 | 0.98 | 4.52 | 29.28 | 20.28 | 3.33 | 9.00 | HG34X9HH |
| 3/4 x 12 | 3,000 | 5.43 | 0.75 | 0.98 | 4.52 | 35.28 | 23.28 | 3.33 | 12.00 | HG34X12HH |
| 7/8 x 12 | 4,000 | 8.10 | 0.88 | 1.13 | 5.19 | 37.00 | 25.00 | 3.78 | 12.00 | HG78X12HH |
| 7/8 x 18 | 4,000 | 9.95 | 0.88 | 1.13 | 5.19 | 49.00 | 31.00 | 3.78 | 18.00 | HG78X18HH |
| 1 x 6 | 5,000 | 9.33 | 1.00 | 1.25 | 5.84 | 26.69 | 20.69 | 4.25 | 6.00 | HG1X6HH |
| 1 x 12 | 5,000 | 11.93 | 1.00 | 1.25 | 5.84 | 38.69 | 26.69 | 4.25 | 12.00 | HG1X12HH |

Hot dip galvanized • End fittings are quenched and tempered, bodies are normalized



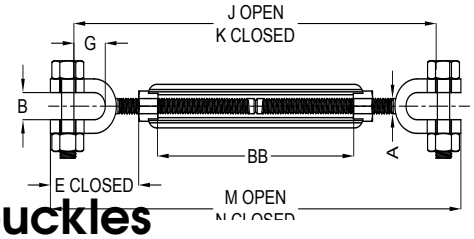

# Jaw & Eye Turnbuckles

## Drop Forged, Hot Dipped Galvanized

## To Federal Specification FF-T791, Type 1, Form 1, Class 8 & ASTM F-1145

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | E | G | J | K | M | N | R | S | X | BB | |
| in | lbs | lbs | | | Closed | | Open | Closed | Open | | | | Closed | | |
| 1/4x4 | 500 | 0.32 | 0.25 | 0.45 | 1.58 | 0.62 | 11.35 | 7.35 | 12.07 | 8.07 | 0.78 | 0.34 | 1.75 | 4.00 | HG14X4JE |
| 5/16x4-1/2 | 800 | 0.47 | 0.31 | 0.50 | 1.98 | 0.87 | 13.71 | 8.71 | 14.01 | 9.51 | 0.94 | 0.44 | 2.09 | 4.50 | HG516X412JE |
| 3/8x6 | 1,200 | 0.76 | 0.38 | 0.54 | 2.12 | 0.87 | 16.81 | 10.81 | 17.77 | 11.77 | 1.12 | 0.53 | 2.52 | 6.00 | HG38X6JE |
| 1/2x6 | 2,200 | 1.53 | 0.50 | 0.68 | 2.75 | 1.06 | 18.29 | 12.29 | 19.48 | 13.48 | 1.44 | 0.72 | 3.23 | 6.00 | HG12X6JE |
| 1/2X9 | 2,200 | 1.71 | 0.50 | 0.68 | 2.75 | 1.06 | 24.29 | 15.29 | 25.48 | 16.48 | 1.44 | 0.72 | 3.23 | 9.00 | HG12X9JE |
| 1/2x12 | 2,200 | 2.06 | 0.50 | 0.68 | 2.75 | 1.06 | 30.29 | 18.29 | 31.48 | 19.48 | 1.44 | 0.72 | 3.23 | 12.00 | HG12X12JE |
| 5/8x6 | 3,500 | 2.35 | 0.63 | 0.82 | 3.50 | 1.31 | 19.74 | 13.74 | 21.28 | 15.28 | 1.75 | 0.88 | 3.90 | 6.00 | HG58X6JE |
| 5/8X9 | 3,500 | 3.06 | 0.63 | 0.82 | 3.50 | 1.31 | 25.74 | 16.74 | 27.28 | 18.28 | 1.75 | 0.88 | 3.90 | 9.00 | HG58X9JE |
| 5/8x12 | 3,500 | 3.78 | 0.63 | 0.82 | 3.50 | 1.31 | 31.74 | 19.74 | 33.28 | 21.28 | 1.75 | 0.88 | 3.90 | 12.00 | HG58X12JE |
| 3/4x6 | 5,200 | 4.00 | 0.75 | 1.03 | 4.18 | 1.50 | 21.19 | 15.19 | 23.11 | 17.11 | 2.09 | 1.00 | 4.69 | 6.00 | HG34X6JE |
| 3/4X9 | 5,200 | 4.75 | 0.75 | 1.03 | 4.18 | 1.50 | 27.19 | 18.19 | 29.11 | 20.11 | 2.09 | 1.00 | 4.69 | 9.00 | HG34X9JE |
| 3/4x12 | 5,200 | 5.36 | 0.75 | 1.03 | 4.18 | 1.50 | 33.19 | 21.19 | 35.11 | 23.11 | 2.09 | 1.00 | 4.69 | 12.00 | HG34X12JE |
| 3/4x18 | 5,200 | 7.00 | 0.75 | 1.03 | 4.18 | 1.50 | 45.19 | 27.19 | 47.11 | 29.11 | 2.09 | 1.00 | 4.69 | 18.00 | HG34X18JE |
| 7/8x12 | 7,200 | 8.00 | 0.88 | 1.23 | 4.85 | 1.75 | 34.34 | 22.34 | 36.57 | 24.57 | 2.38 | 1.25 | 5.10 | 12.00 | HG78X12JE |
| 7/8X18 | 7,200 | 9.75 | 0.88 | 1.23 | 4.85 | 1.75 | 46.34 | 28.34 | 48.57 | 30.57 | 2.38 | 1.25 | 5.10 | 18.00 | HG78X18JE |
| 1X6 | 10,000 | 8.92 | 1.00 | 1.31 | 5.53 | 2.06 | 24.34 | 18.34 | 26.89 | 20.89 | 3.00 | 1.44 | 6.36 | 6.00 | HG1X6JE |
| 1x12 | 10,000 | 11.20 | 1.00 | 1.31 | 5.53 | 2.06 | 36.34 | 24.34 | 38.89 | 26.89 | 3.00 | 1.44 | 6.36 | 12.00 | HG1X12JE |
| 1X18 | 10,000 | 13.30 | 1.00 | 1.31 | 5.53 | 2.06 | 48.34 | 30.34 | 50.89 | 32.89 | 3.00 | 1.44 | 6.36 | 18.00 | HG1X18JE |
| 1X24 | 10,000 | 17.00 | 1.00 | 1.31 | 5.53 | 2.06 | 60.34 | 36.34 | 62.89 | 38.89 | 3.00 | 1.44 | 6.36 | 24.00 | HG1X24JE |
| 1-1/4X12 | 15,200 | 20.00 | 1.25 | 1.86 | 7.21 | 2.81 | 38.82 | 26.82 | 42.05 | 30.05 | 3.56 | 1.81 | 7.72 | 12.00 | HG114X12JE |
| 1-1/4x18 | 15,200 | 24.18 | 1.25 | 1.86 | 7.21 | 2.81 | 50.82 | 32.82 | 54.05 | 36.05 | 3.56 | 1.81 | 7.72 | 18.00 | HG114X18JE |
| 1-1/4x24 | 15,200 | 28.50 | 1.25 | 1.86 | 7.21 | 2.81 | 62.82 | 38.82 | 66.05 | 42.05 | 3.56 | 1.81 | 7.72 | 24.00 | HG114X24JE |
| 1-1/2x12 | 21,400 | 28.99 | 1.50 | 2.25 | 7.88 | 2.81 | 40.50 | 28.50 | 44.25 | 32.25 | 4.06 | 2.12 | 8.62 | 12.00 | HG112X12JE |
| 1-1/2x18 | 21,400 | 35.00 | 1.50 | 2.25 | 7.88 | 2.81 | 52.50 | 34.50 | 56.25 | 38.25 | 4.06 | 2.12 | 8.62 | 18.00 | HG112X18JE |
| 1-1/2x24 | 21,400 | 39.18 | 1.50 | 2.25 | 7.88 | 2.81 | 64.50 | 40.50 | 68.25 | 44.25 | 4.06 | 2.12 | 8.62 | 24.00 | HG112X24JE |
| 1-3/4x18 | 28,000 | 53.75 | 1.75 | 2.60 | 9.40 | 3.38 | 55.38 | 37.38 | 59.78 | 41.78 | 4.62 | 2.38 | 10.00 | 18.00 | HG134X18JE |
| 1- 3/4x24 | 28,000 | 60.68 | 1.75 | 2.60 | 9.40 | 3.38 | 67.38 | 43.38 | 71.78 | 47.78 | 4.62 | 2.38 | 10.00 | 24.00 | HG134X24JE |
| 2x24 | 37,000 | 89.00 | 2.00 | 2.62 | 11.86 | 3.69 | 72.62 | 48.62 | 77.95 | 53.95 | 5.75 | 2.69 | 13.09 | 24.00 | HG2X24JE |

Hot dip galvanized • End fittings are quenched and tempered, bodies are normalized

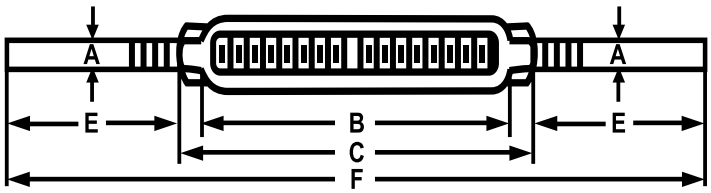


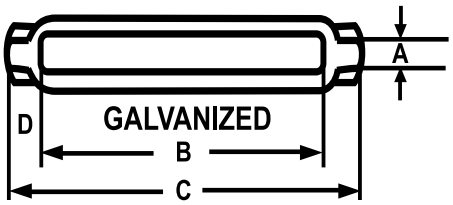

# Jaw & Jaw Turnbuckles

## Drop Forged, Hot Dipped Galvanized
## To Federal Specification FF-T791, Type 1, Form 1, Class 7 & ASTM F-1145

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | E | G | J | K | M | N | BB | |
| in | lbs | lbs | | Open | | Open | Closed | Open | | | | |
| 1/4x4 | 500 | 0.36 | 0.25 | 0.45 | 1.58 | 0.62 | 10.90 | 6.90 | 11.90 | 7.90 | 4.00 | HG14X4JJ |
| 5/16x4-1/2 | 800 | 0.52 | 0.31 | 0.50 | 1.98 | 0.87 | 12.36 | 8.36 | 13.90 | 9.40 | 4.50 | HG516X412JJ |
| 3/8x6 | 1,200 | 0.81 | 0.38 | 0.54 | 2.12 | 0.87 | 16.14 | 10.14 | 17.38 | 11.38 | 6.00 | HG38X6JJ |
| 1/2x6 | 2,200 | 1.50 | 0.50 | 0.68 | 2.75 | 1.06 | 17.50 | 11.50 | 19.00 | 13.00 | 6.00 | HG12X6JJ |
| 1/2X9 | 2,200 | 1.74 | 0.50 | 0.68 | 2.75 | 1.06 | 23.50 | 14.50 | 25.00 | 16.00 | 9.00 | HG12X9JJ |
| 1/2x12 | 2,200 | 2.40 | 0.50 | 0.68 | 2.75 | 1.06 | 29.50 | 17.50 | 31.00 | 19.00 | 12.00 | HG12X12JJ |
| 5/8x6 | 3,500 | 2.72 | 0.63 | 0.82 | 3.50 | 1.31 | 18.80 | 12.80 | 20.88 | 14.88 | 6.00 | HG58X6JJ |
| 5/8X9 | 3,500 | 3.24 | 0.63 | 0.82 | 3.50 | 1.31 | 24.80 | 15.80 | 26.88 | 17.88 | 9.00 | HG58X9JJ |
| 5/8x12 | 3,500 | 3.74 | 0.63 | 0.82 | 3.50 | 1.31 | 30.80 | 18.80 | 32.88 | 20.88 | 12.00 | HG58X12JJ |
| 3/4x6 | 5,200 | 4.11 | 0.75 | 1.03 | 4.18 | 1.50 | 20.00 | 14.00 | 22.60 | 16.60 | 6.00 | HG34X6JJ |
| 3/4X9 | 5,200 | 5.10 | 0.75 | 1.03 | 4.18 | 1.50 | 26.00 | 17.00 | 28.60 | 19.60 | 9.00 | HG34X9JJ |
| 3/4x12 | 5,200 | 5.65 | 0.75 | 1.03 | 4.18 | 1.50 | 32.00 | 20.00 | 34.60 | 22.60 | 12.00 | HG34X12JJ |
| 3/4x18 | 5,200 | 7.00 | 0.75 | 1.03 | 4.18 | 1.50 | 44.00 | 26.00 | 46.60 | 28.60 | 18.00 | HG34X18JJ |
| 7/8x12 | 7,200 | 8.17 | 0.88 | 1.23 | 4.85 | 1.75 | 33.36 | 21.36 | 36.32 | 24.32 | 12.00 | HG78X12JJ |
| 7/8X18 | 7,200 | 9.96 | 0.88 | 1.23 | 4.85 | 1.75 | 45.36 | 27.36 | 48.32 | 30.32 | 18.00 | HG78X18JJ |
| 1X6 | 10,000 | 8.50 | 1.00 | 1.31 | 5.53 | 2.06 | 22.72 | 16.72 | 26.06 | 20.06 | 6.00 | HG1X6JJ |
| 1x12 | 10,000 | 12.00 | 1.00 | 1.31 | 5.53 | 2.06 | 34.72 | 22.72 | 38.06 | 26.06 | 12.00 | HG1X12JJ |
| 1X18 | 10,000 | 14.00 | 1.00 | 1.31 | 5.53 | 2.06 | 46.72 | 28.72 | 50.06 | 32.06 | 18.00 | HG1X18JJ |
| 1X24 | 10,000 | 17.00 | 1.00 | 1.31 | 5.53 | 2.06 | 58.72 | 34.72 | 62.06 | 38.06 | 24.00 | HG1X24JJ |
| 1-1/4X12 | 15,200 | 21.50 | 1.25 | 1.86 | 7.21 | 2.81 | 37.34 | 25.34 | 41.54 | 29.54 | 12.00 | HG114X12JJ |
| 1-1/4x18 | 15,200 | 24.25 | 1.25 | 1.86 | 7.21 | 2.81 | 49.34 | 31.34 | 53.54 | 35.54 | 18.00 | HG114X18JJ |
| 1-1/4x24 | 15,200 | 28.00 | 1.25 | 1.86 | 7.21 | 2.81 | 61.34 | 37.34 | 65.54 | 41.54 | 24.00 | HG114X24JJ |
| 1-1/2x12 | 21,400 | 30.50 | 1.50 | 2.25 | 7.88 | 2.81 | 38.50 | 26.50 | 43.50 | 31.50 | 12.00 | HG12X12JJ |
| 1-1/2x18 | 21,400 | 36.75 | 1.50 | 2.25 | 7.88 | 2.81 | 50.50 | 32.50 | 55.50 | 37.50 | 18.00 | HG12X18JJ |
| 1-1/2x24 | 21,400 | 40.67 | 1.50 | 2.25 | 7.88 | 2.81 | 62.50 | 38.50 | 67.50 | 43.50 | 24.00 | HG112X24JJ |
| 1-3/4x18 | 28,000 | 55.04 | 1.75 | 2.60 | 9.40 | 3.38 | 53.38 | 35.38 | 59.18 | 41.18 | 18.00 | HG134X18JJ |
| 1- 3/4x24 | 28,000 | 63.36 | 1.75 | 2.60 | 9.40 | 3.38 | 65.38 | 41.38 | 71.18 | 47.18 | 24.00 | HG134X24JJ |
| 2x24 | 37,000 | 94.25 | 2.00 | 2.62 | 11.86 | 3.69 | 69.54 | 45.54 | 76.72 | 52.72 | 24.00 | HG2X24JJ |
| 2-1/2x24 | 75,000 | 198.00 | 2.75 | 3.68 | 15.22 | 4.19 | 74.75 | 50.75 | 85.50 | 61.50 | 24.00 | HG212X24JJ |

Hot dip galvanized • End fittings are quenched and tempered, bodies are normalized
NEVER EXCEED PUBLISHED WORKING LOAD LIMIT. ALWAYS READ
AND UNDERSTAND THE GENERAL WARNINGS AND INFORMATION ON PAGE 4 AND 5.



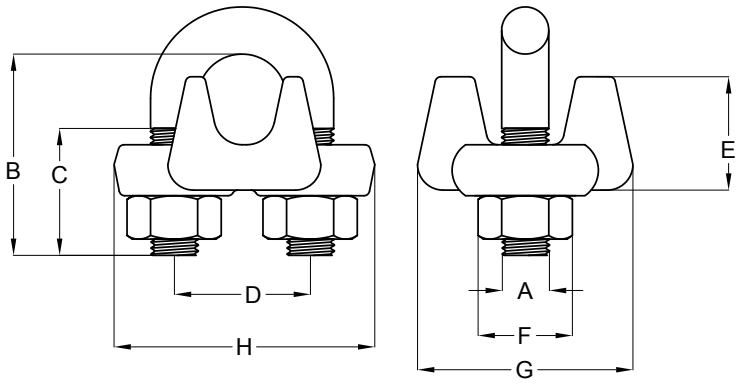






# Turnbuckles – Body Only

## Drop Forged, Hot Dipped Galvanized
## To Federal Specifications FF-T-791b, Type 1, Form 1, Class 2

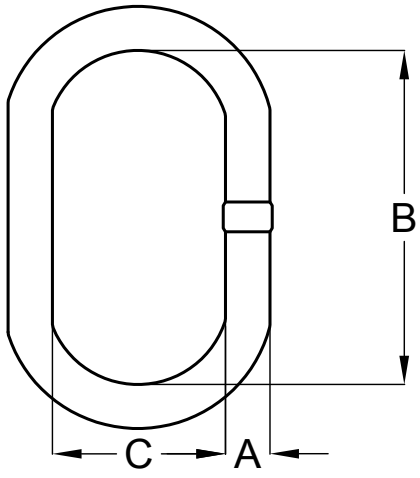
| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | AA | BB | CC | DD | EE | GG | HH | JJ | |
| in | lbs | lbs | | Open | | Open | Closed | Open | | | |
| 1/2x6 | 2,200 | 0.70 | 7.70 | 6.03 | 0.84 | 1.19 | 0.68 | 0.81 | 0.63 | 0.28 | HG12X6TBB |
| 1/2x9 | 2,200 | 1.03 | 11.03 | 9.36 | 0.84 | 1.19 | 0.68 | 0.81 | 0.63 | 0.28 | HG12X9TBB |
| 1/2x12 | 2,200 | 1.27 | 14.03 | 12.36 | 0.84 | 1.19 | 0.68 | 0.81 | 0.63 | 0.28 | HG12X12TBB |
| 5/8x6 | 3,500 | 1.11 | 8.02 | 6.03 | 1.00 | 1.43 | 0.83 | 1.00 | 0.75 | 0.34 | HG58X6TBB |
| 5/8x9 | 3,500 | 1.59 | 11.38 | 9.36 | 1.00 | 1.43 | 0.83 | 1.00 | 0.75 | 0.34 | HG58X9TBB |
| 5/8x12 | 3,500 | 1.96 | 14.38 | 12.39 | 1.00 | 1.43 | 0.83 | 1.00 | 0.75 | 0.34 | HG58X12TBB |
| 3/4x6 | 5,200 | 1.50 | 8.26 | 6.13 | 1.07 | 1.74 | 0.94 | 1.13 | 0.94 | 0.40 | HG34X6TBB |
| 3/4x9 | 5,200 | 2.17 | 11.72 | 9.59 | 1.07 | 1.74 | 0.94 | 1.13 | 0.94 | 0.40 | HG34X9TBB |
| 3/4x12 | 5,200 | 2.66 | 14.72 | 12.59 | 1.07 | 1.74 | 0.94 | 1.13 | 0.94 | 0.40 | HG34X12TBB |
| 3/4x18 | 5,200 | 3.63 | 20.66 | 18.56 | 1.07 | 1.74 | 0.94 | 1.13 | 0.94 | 0.40 | HG34X18TBB |
| 7/8x12 | 7,200 | 3.61 | 14.62 | 12.16 | 1.23 | 2.00 | 1.13 | 1.31 | 1.06 | 0.47 | HG78X12TBB |
| 7/8x18 | 7,200 | 5.27 | 21.09 | 18.63 | 1.23 | 2.00 | 1.13 | 1.31 | 1.06 | 0.47 | HG78X18TBB |
| 1x6 | 10,000 | 3.32 | 9.00 | 6.18 | 1.41 | 2.45 | 1.25 | 1.50 | 1.25 | 0.60 | HG1X6TBB |
| 1x12 | 10,000 | 5.34 | 15.00 | 12.18 | 1.41 | 2.45 | 1.25 | 1.50 | 1.25 | 0.60 | HG1X12TBB |
| 1x18 | 10,000 | 7.35 | 21.00 | 18.18 | 1.41 | 2.45 | 1.25 | 1.50 | 1.25 | 0.60 | HG1X18TBB |
| 1x24 | 10,000 | 9.85 | 27.66 | 24.84 | 1.41 | 2.45 | 1.25 | 1.50 | 1.25 | 0.60 | HG1X24TBB |




# Drop Forged Wire Rope Clips

## Forged Steel, Hot Galvanized

| Rope Size | Weight Per Piece in | Dimensions (in) | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | |
| in | lbs | | | | | | | | | |
| 1/4 | 0.19 | 0.31 | 1.03 | 0.5 | 0.75 | 0.66 | 0.56 | 1.19 | 1.43 | DFC14-K |
| 3/4 | 1.42 | 0.62 | 2.75 | 1.44 | 1.5 | 1.39 | 1.06 | 2.25 | 2.84 | DFC34-K |
| 7/8 | 2.12 | 0.75 | 3.12 | 1.62 | 1.75 | 1.58 | 1.25 | 2.44 | 3.16 | DFC78-K |
| 1-1/8 | 2.83 | 0.75 | 3.88 | 2 | 2 | 1.91 | 1.25 | 2.81 | 3.59 | DFC118-K |
| 1-5/8 | 7.04 | 1 | 5.31 | 2.62 | 2.75 | 2.66 | 1.63 | 3.63 | 4.75 | DFC158-K |
| 1-3/4 | 9.34 | 1.13 | 5.75 | 2.75 | 3.06 | 2.92 | 1.81 | 3.81 | 5.24 | DFC134-K |





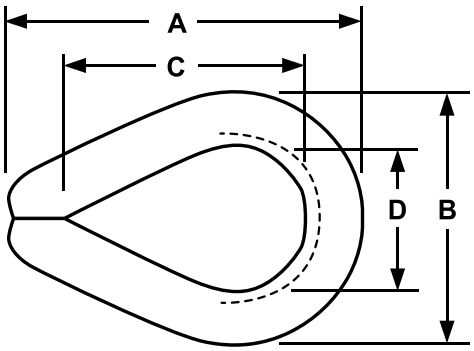

# Alloy Oblong Master Links

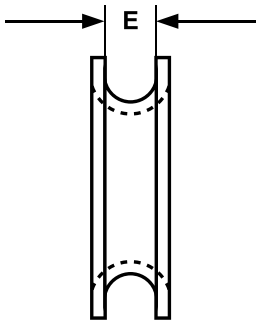
## Grade 80 Alloy, Painted Red

| Size | Working Load Limit | Weight ea in | Dimensions (in) | | | Part No. |
|---|---|---|---|---|---|---|
| | | | A | B | C | |
| in | lbs | lbs | | | | |
| 1/2 | 7,400 | 0.82 | 0.62 | 2.8 | 5 | 12G80OMLK |
| 5/8 | 9,000 | 1.52 | 0.62 | 3 | 6 | 58G80OMLK |
| 3/4 | 12,300 | 2.07 | 0.73 | 3.2 | 6 | 34G80OMLK |
| 7/8 | 15,200 | 3.31 | 0.88 | 3.75 | 6.38 | 78G80OMLK |
| 1 | 26,000 | 4.85 | 1.1 | 4.3 | 7.5 | 1G80OMLK |
| 1 1/4 | 39,100 | 9.57 | 1.33 | 5.5 | 9.5 | 114G80OMLK |
| 1 1/2 | 61,100 | 16.22 | 1.61 | 5.9 | 10.5 | 112G80OMLK |
| 1 3/4 | 84,900 | 25.22 | 1.75 | 6 | 12 | 134G80OMLK |
| 2 | 102,600 | 37.04 | 2 | 7 | 14 | 2G80OMLK |

THE VIKING KOREAN HARDWARE

energy API





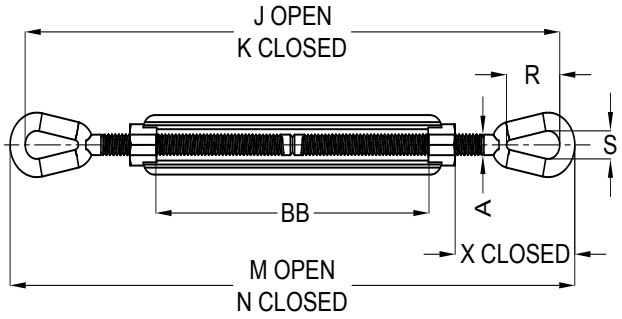

# Hawser Thimbles

## Cast Alloy Steel. Hot Galvanized

| Size | Dimensions (in) | | | | | Weight Per Piece in | Part No. |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | | |
| in | | | | | | lbs | |
| 5/8 - 3/4 | 6-7/8 | 4-1/2 | 5 | 3 | 1-3/16 | 3.5 | HGHT58K |
| 7/8 - 1 | 8-5/8 | 5-3/4 | 6-1/4 | 3-3/4 | 1-7/16 | 6.0 | HGHT78K |
| 1-1/8 - 1-1/4 | 10 | 6-5/8 | 7-1/8 | 4-3/16 | 1-11/16 | 8.5 | HGHT118K |
| 1-3/8 - 1-1/2 | 12-1/8 | CO | 8-3/4 | 5 | 2-3/16 | 18.5 | HGHT138K |
| 1-5/8 - 1-3/4 | 12-3/4 | CO | 9-1/4 | 5 | 2-7/16 | 24 | HGHT158K |
| 1-7/8 - 2 | 14-3/4 | 9-1/2 | 10-3/4 | 6 | 2-11/16 | 30.5 | HGHT178K |
| 2-1/8 - 2-1/4 | 17-1/8 | 11 | 12-1/2 | 7 | 3-1/8 | 56 | HGHT218K |
| 2-3/8 - 2-1/2 | 19-1/4 | 12-3/4 | 14-1/4 | 8-1/4 | 3-7/8 | 95 | HGHT238K |
| 2-3/4 - 3 | 24-1/2 | 15 | 17 | 9-3/8 | 4-15/16 | 135 | HGHT234K |

THE VIKING KOREAN HARDWARE

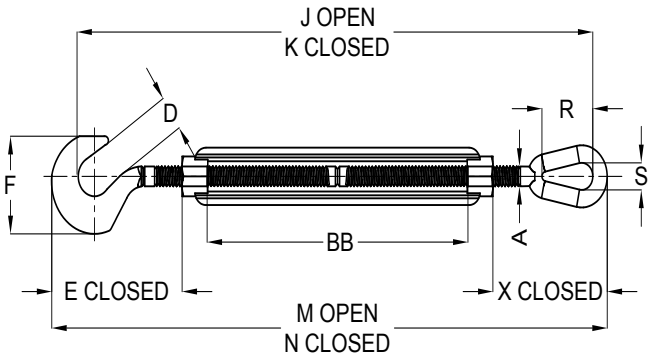
energy API




# Eye & Eye Turnbuckles

## Drop Forged, Hot Dipped Galvanized

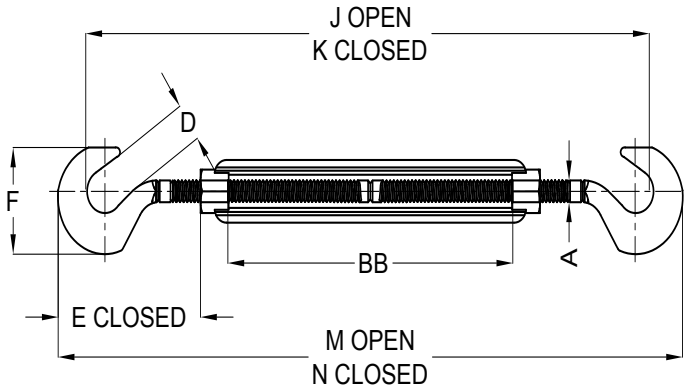
| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | J | K | M | N | R | S | X | BB | |
| in | lbs | lbs | | Open | Closed | Open | Closed | | | Closed | | |
| 1/4x4 | 500 | 0.3 | 0.25 | 11.8 | 7.8 | 12.25 | 8.25 | 0.78 | 0.34 | 1.75 | 4.07 | HG14X4EEK |
| 1/2x6 | 2200 | 1.6 | 0.5 | 19.08 | 13.08 | 19.96 | 13.96 | 1.44 | 0.72 | 3.23 | 6.03 | HG12X6EEK |
| 1/2X9 | 2200 | 1.83 | 0.5 | 25.08 | 16.08 | 25.96 | 16.96 | 1.44 | 0.72 | 3.23 | | HG12X9EEK |
| 1/2x12 | 2200 | 2.08 | 0.5 | 31.08 | 19.08 | 31.96 | 19.96 | 1.44 | 0.72 | 3.23 | 12.36 | HG12X12EEK |
| 5/8x6 | 3500 | 2.75 | 0.63 | 20.68 | 14.68 | 21.68 | 15.68 | 1.75 | 0.88 | 3.9 | 6.03 | HG58X6EEK |
| 3/4x6 | 5200 | 3.89 | 0.75 | 22.38 | 16.38 | 23.62 | 17.62 | 2.09 | 1 | 4.69 | 6.13 | HG34X6EEK |
| 3/4X9 | 5200 | 4.61 | 0.75 | 28.38 | 19.38 | 29.62 | 20.62 | 2.09 | 1 | 4.69 | | HG34X9EEK |
| 3/4x12 | 5200 | 5.43 | 0.75 | 34.38 | 22.38 | 35.62 | 23.62 | 2.09 | 1 | 4.69 | 12.59 | HG34X12EEK |
| 3/4x18 | 5200 | 7.25 | 0.75 | 46.38 | 28.38 | 47.62 | 29.62 | 2.09 | 1 | 4.69 | 18.53 | HG34X18EEK |
| 7/8x12 | 7200 | 8.1 | 0.88 | 35.32 | 23.32 | 36.82 | 24.82 | 2.38 | 1.25 | 5.1 | 12.16 | HG78X12EEK |
| 1X6 | 10000 | 9.33 | 1 | 25.97 | 19.97 | 27.72 | 21.72 | 3 | 1.44 | 6.36 | 6.18 | HG1X6EEK |
| 1X12 | 10000 | 11.93 | 1 | 37.97 | 25.97 | 39.97 | 27.72 | 3 | 1.44 | 6.36 | 12.18 | HG1X12EEK |
| 1X18 | 10000 | 14 | 1 | 49.97 | 31.97 | 51.72 | 33.72 | 3 | 1.44 | 6.36 | 18.18 | HG1X18EEK |
| 1X24 | 10000 | 17.25 | 1 | 61.97 | 37.97 | 63.72 | 39.72 | 3 | 1.44 | 6.36 | 24.84 | HG1X24EEK |
| 1-1/4x12 | 15200 | 19 | 1.25 | 40.31 | 28.31 | 42.56 | 30.56 | 3.56 | 1.81 | 7.72 | 12.06 | HG114X12EEK |
| 1-1/4x18 | 15200 | 23 | 1.25 | 52.31 | 34.31 | 54.56 | 36.56 | 3.56 | 1.81 | 7.72 | 18.06 | HG114X18EEK |
| 1-1/4x24 | 15200 | 27 | 1.25 | 64.31 | 40.31 | 66.56 | 42.56 | 3.56 | 1.81 | 7.72 | 24.62 | HG114X24EEK |
| 1-1/2x12 | 21400 | 27.5 | 1.5 | 42.5 | 30.5 | 45 | 33 | 4.06 | 2.12 | 8.62 | 12.32 | HG112X12EEK |
| 1-1/2x18 | 21400 | 31 | 1.5 | 54.5 | 36.5 | 57 | 39 | 4.06 | 2.12 | 8.62 | 18.32 | HG112X18EEK |
| 1-1/2x24 | 21400 | 37.5 | 1.5 | 66.5 | 42.5 | 69 | 45 | 4.06 | 2.12 | 8.62 | 24.94 | HG112X24EEK |
| 1-3/4x18 | 28000 | 52.5 | 1.75 | 57.38 | 39.38 | 60.38 | 42.38 | 4.62 | 2.38 | 10 | 18.37 | HG134X18EEK |
| 1-3/4x24 | 28000 | 58 | 1.75 | 69.38 | 45.38 | 72.38 | 48.38 | 4.62 | 2.38 | 10 | 24.37 | HG134X24EEK |
| 2x24 | 37000 | 85.25 | 2 | 75.69 | 51.69 | 79.19 | 55.19 | 5.57 | 2.69 | 13.09 | 24.48 | HG2X24EEK |
| 2-1/2x24 | 60000 | 149 | 2.5 | 79.18 | 55.18 | 83.18 | 59.18 | 6.49 | 3.12 | 13.76 | 24.6 | HG212X24EEK |
| 2-3/4x24 | 75000 | 174 | 2.75 | 81.34 | 57.34 | 85.34 | 61.84 | 7 | 3.25 | 15.09 | 24.65 | HG234X24EEK |




# Hook & Eye Turnbuckles

## Drop Forged, Hot Dipped Galvanized

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | K | P | |
| in | lbs | lbs | | | Closed | Closed | Closed | | | | | Closed | |
| 1/4 x 4 | 400 | 0.3 | 0.25 | 0.45 | 1.59 | 11.94 | 7.94 | 1.27 | 4 | 0.78 | 0.34 | 1.75 | HG14X4HEK |
| 5/16 x 4 1/2 | 700 | 0.47 | 0.31 | 0.5 | 1.94 | 13.81 | 9.31 | 1.5 | 4.5 | 0.94 | 0.44 | 2.09 | HG516X412HEK |
| 3/8 x 6 | 1000 | 0.75 | 0.38 | 0.56 | 2.3 | 17.72 | 11.72 | 1.77 | 6 | 1.12 | 0.53 | 2.52 | HG38X6HEK |
| 1/2 x 6 | 1500 | 1.6 | 0.5 | 0.66 | 2.94 | 19.38 | 13.38 | 2.28 | 6 | 1.44 | 0.72 | 3.23 | HG12X6HEK |
| 1/2 x 9 | 1500 | 1.83 | 0.5 | 0.66 | 2.94 | 25.38 | 16.38 | 2.28 | 9 | 1.44 | 0.72 | 3.23 | HG12X9HEK |
| 1/2 x 12 | 1500 | 2.08 | 0.5 | 0.66 | 2.94 | 31.38 | 19.38 | 2.28 | 12 | 1.44 | 0.72 | 3.23 | HG12X12HEK |
| 5/8 x 6 | 2250 | 2.75 | 0.63 | 0.84 | 3.69 | 21.25 | 15.25 | 2.81 | 6 | 1.75 | 0.88 | 3.9 | HG58X6HEK |
| 5/8 x 9 | 2250 | 3.13 | 0.63 | 0.84 | 3.69 | 27.25 | 18.25 | 2.81 | 9 | 1.75 | 0.88 | 3.9 | HG58X9HEK |
| 5/8 x 12 | 2250 | 3.5 | 0.63 | 0.84 | 3.69 | 33.25 | 21.25 | 2.81 | 12 | 1.75 | 0.88 | 3.9 | HG58X12HEK |
| 3/4 x 6 | 3000 | 3.89 | 0.75 | 0.98 | 4.52 | 23.28 | 17.28 | 3.33 | 6 | 2.09 | 1 | 4.69 | HG34X6HEK |
| 3/4 x 9 | 3000 | 4.61 | 0.75 | 0.98 | 4.52 | 29.28 | 20.28 | 3.33 | 9 | 2.09 | 1 | 4.69 | HG34X9HEK |
| 3/4 x 12 | 3000 | 5.43 | 0.75 | 0.98 | 4.52 | 35.28 | 23.28 | 3.33 | 12 | 2.09 | 1 | 4.69 | HG34X12HEK |
| 3/4 x 18 | 3000 | 7.25 | 0.75 | 0.98 | 4.52 | 47.28 | 29.28 | 3.33 | 18 | 2.09 | 1 | 4.69 | HG34X18HEK |
| 7/8 x 12 | 4000 | 8.1 | 0.88 | 1.13 | 5.19 | 37 | 25 | 3.78 | 12 | 2.38 | 1.25 | 5.1 | HG78X12HEK |
| 1 x 6 | 5000 | 9.33 | 1 | 1.25 | 5.84 | 26.69 | 20.69 | 4.25 | 6 | 3 | 1.44 | 6.36 | HG1X6HEK |
| 1 x 12 | 5000 | 11.93 | 1 | 1.25 | 5.84 | 38.69 | 26.69 | 4.25 | 12 | 3 | 1.44 | 6.36 | HG1X12HEK |






# Hook & Hook Turnbuckles

## Drop Forged, Hot Dipped Galvanized

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | |
| in | lbs | lbs | | | Closed | Open | Closed | | | |
| 1/4 x 4 | 400 | 0.3 | 0.25 | 0.45 | 1.59 | 11.94 | 7.94 | 1.27 | 4 | HG14X4HHK |
| 5/16 x 4 1/2 | 700 | 0.47 | 0.31 | 0.5 | 1.94 | 13.81 | 9.31 | 1.5 | 4.5 | HG516X412HHK |
| 3/8 x 6 | 1000 | 0.75 | 0.38 | 0.56 | 2.3 | 17.72 | 11.72 | 1.77 | 6 | HG38X6HHK |
| 1/2 x 6 | 1500 | 1.6 | 0.5 | 0.66 | 2.94 | 19.38 | 13.38 | 2.28 | 6 | HG12X6HHK |
| 1/2 x 9 | 1500 | 1.83 | 0.5 | 0.66 | 2.94 | 25.38 | 16.38 | 2.28 | 9 | HG12X9HHK |
| 1/2 x 12 | 1500 | 2.08 | 0.5 | 0.66 | 2.94 | 31.38 | 19.38 | 2.28 | 12 | HG12X12HHK |
| 5/8 x 6 | 2250 | 2.75 | 0.63 | 0.84 | 3.69 | 21.25 | 15.25 | 2.81 | 6 | HG58X6HHK |
| 5/8 x 9 | 2250 | 3.13 | 0.63 | 0.84 | 3.69 | 27.25 | 18.25 | 2.81 | 9 | HG58X9HHK |
| 5/8 x 12 | 2250 | 3.5 | 0.63 | 0.84 | 3.69 | 33.25 | 21.25 | 2.81 | 12 | HG58X12HHK |
| 3/4 x 6 | 3000 | 3.89 | 0.75 | 0.98 | 4.52 | 23.28 | 17.28 | 3.33 | 6 | HG34X6HHK |
| 3/4 x 9 | 3000 | 4.61 | 0.75 | 0.98 | 4.52 | 29.28 | 20.28 | 3.33 | 9 | HG34X9HHK |
| 3/4 x 12 | 3000 | 5.43 | 0.75 | 0.98 | 4.52 | 35.28 | 23.28 | 3.33 | 12 | HG34X12HHK |
| 7/8 x 12 | 4000 | 8.1 | 0.88 | 1.13 | 5.19 | 37 | 25 | 3.78 | 12 | HG78X12HHK |
| 7/8 x 18 | 4000 | 9.95 | 0.88 | 1.13 | 5.19 | 49 | 31 | 3.78 | 18 | HG78X18HHK |
| 1 x 6 | 5000 | 9.33 | 1 | 1.25 | 5.84 | 26.69 | 20.69 | 4.25 | 6 | HG1X6HHK |
| 1 x 12 | 5000 | 11.93 | 1 | 1.25 | 5.84 | 38.69 | 26.69 | 4.25 | 12 | HG1X12HHK |

THE VIKING
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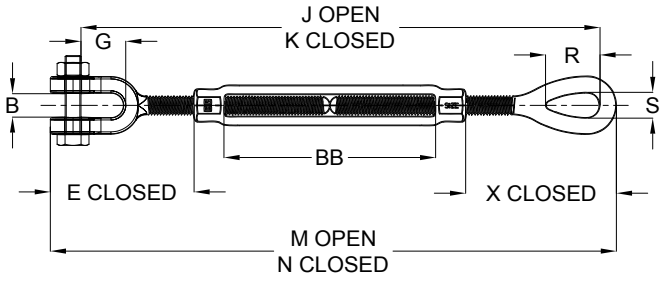
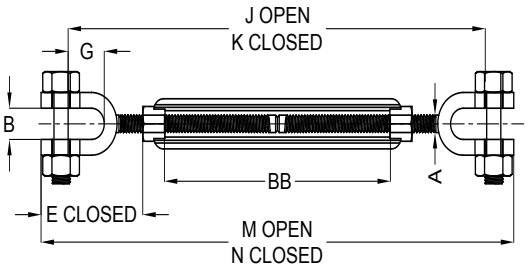
energy API




# Jaw & Eye Turnbuckles

## Drop Forged, Hot Dipped Galvanized

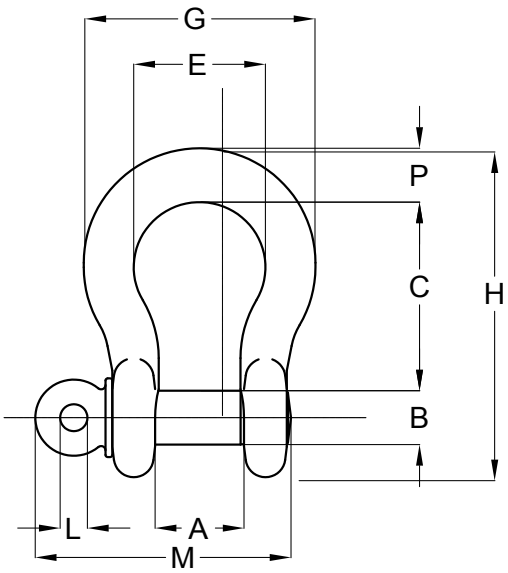
| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | E | G | J | K | M | N | R | S | X | BB | |
| in | lbs | lbs | | | Closed | | Open | Closed | Open | Closed | | | Closed | | |
| 1/4x4 | 500 | 0.32 | 0.25 | 0.45 | 1.58 | 0.62 | 11.35 | 7.35 | 12.07 | 8.07 | 0.78 | 0.34 | 1.75 | 1.75 | HG14X4JEK |
| 5/16x4-1/2 | 800 | 0.47 | 0.31 | 0.5 | 1.98 | 0.87 | 13.71 | 8.71 | 14.01 | 9.51 | 0.94 | 0.44 | 2.09 | 2.09 | HG516X412JEK |
| 3/8x6 | 1200 | 0.76 | 0.38 | 0.54 | 2.12 | 0.87 | 16.81 | 10.81 | 17.77 | 11.77 | 1.12 | 0.53 | 2.52 | 2.52 | HG38X6JEK |
| 1/2x6 | 2200 | 1.53 | 0.5 | 0.68 | 2.75 | 1.06 | 18.29 | 12.29 | 19.48 | 13.48 | 1.44 | 0.72 | 3.23 | 3.23 | HG12X6JEK |
| 1/2X9 | 2200 | 1.71 | 0.5 | 0.68 | 2.75 | 1.06 | 24.29 | 15.29 | 25.48 | 16.48 | 1.44 | 0.72 | 3.23 | 3.23 | HG12X9JEK |
| 1/2x12 | 2200 | 2.06 | 0.5 | 0.68 | 2.75 | 1.06 | 30.29 | 18.29 | 31.48 | 19.48 | 1.44 | 0.72 | 3.23 | 3.23 | HG12X12JEK |
| 5/8x6 | 3500 | 2.35 | 0.63 | 0.82 | 3.5 | 1.31 | 19.74 | 13.74 | 21.28 | 15.28 | 1.75 | 0.88 | 3.9 | 3.9 | HG58X6JEK |
| 5/8X9 | 3500 | 3.06 | 0.63 | 0.82 | 3.5 | 1.31 | 25.74 | 16.74 | 27.28 | 18.28 | 1.75 | 0.88 | 3.9 | 3.9 | HG58X9JEK |
| 5/8x12 | 3500 | 3.78 | 0.63 | 0.82 | 3.5 | 1.31 | 31.74 | 19.74 | 33.28 | 21.28 | 1.75 | 0.88 | 3.9 | 3.9 | HG58X12JEK |
| 3/4x6 | 5200 | 4 | 0.75 | 1.03 | 4.18 | 1.5 | 21.19 | 15.19 | 23.11 | 17.11 | 2.09 | 1 | 4.69 | 4.69 | HG34X6JEK |
| 3/4X9 | 5200 | 4.75 | 0.75 | 1.03 | 4.18 | 1.5 | 27.19 | 18.19 | 29.11 | 20.11 | 2.09 | 1 | 4.69 | 4.69 | HG34X9JEK |
| 3/4x12 | 5200 | 5.36 | 0.75 | 1.03 | 4.18 | 1.5 | 33.19 | 21.19 | 35.11 | 23.11 | 2.09 | 1 | 4.69 | 4.69 | HG34X12JEK |
| 3/4x18 | 5200 | 7 | 0.75 | 1.03 | 4.18 | 1.5 | 45.19 | 27.19 | 47.11 | 29.11 | 2.09 | 1 | 4.69 | 4.69 | HG34X18JEK |
| 7/8x12 | 7200 | 8 | 0.88 | 1.23 | 4.85 | 1.75 | 34.34 | 22.34 | 36.57 | 24.57 | 2.38 | 1.25 | 5.1 | 5.1 | HG78X12JEK |
| 7/8X18 | 7200 | 9.75 | 0.88 | 1.23 | 4.85 | 1.75 | 46.34 | 28.34 | 48.57 | 30.57 | 2.38 | 1.25 | 5.1 | 5.1 | HG78X18JEK |
| 1X6 | 10000 | 8.92 | 1 | 1.31 | 5.53 | 2.06 | 24.34 | 18.34 | 26.89 | 20.89 | 3 | 1.44 | 6.36 | 6.36 | HG1X6JEK |
| 1x12 | 10000 | 11.2 | 1 | 1.31 | 5.53 | 2.06 | 36.34 | 24.34 | 38.89 | 26.89 | 3 | 1.44 | 6.36 | 6.36 | HG1X12JEK |
| 1X18 | 10000 | 13.3 | 1 | 1.31 | 5.53 | 2.06 | 48.34 | 30.34 | 50.89 | 32.89 | 3 | 1.44 | 6.36 | 6.36 | HG1X18JEK |
| 1X24 | 10000 | 17 | 1 | 1.31 | 5.53 | 2.06 | 60.34 | 36.34 | 62.89 | 38.89 | 3 | 1.44 | 6.36 | 6.36 | HG1X24JEK |
| 1-1/4X12 | 15200 | 20 | 1.25 | 1.86 | 7.21 | 2.81 | 38.82 | 26.82 | 42.05 | 30.05 | 3.56 | 1.81 | 7.72 | 7.72 | HG114X12JEK |
| 1-1/4x18 | 15200 | 24.18 | 1.25 | 1.86 | 7.21 | 2.81 | 50.82 | 32.82 | 54.05 | 36.05 | 3.56 | 1.81 | 7.72 | 7.72 | HG114X18JEK |
| 1-1/4x24 | 15200 | 28.5 | 1.25 | 1.86 | 7.21 | 2.81 | 62.82 | 38.82 | 66.05 | 42.05 | 3.56 | 1.81 | 7.72 | 7.72 | HG114X24JEK |
| 1-1/2x12 | 21400 | 28.99 | 1.5 | 2.25 | 7.88 | 2.81 | 40.5 | 28.5 | 44.25 | 32.25 | 4.06 | 2.12 | 8.62 | 8.62 | HG112X12JEK |
| 1-1/2x18 | 21400 | 35 | 1.5 | 2.25 | 7.88 | 2.81 | 52.5 | 34.5 | 56.25 | 38.25 | 4.06 | 2.12 | 8.62 | 8.62 | HG112X18JEK |
| 1-1/2x24 | 21400 | 39.18 | 1.5 | 2.25 | 7.88 | 2.81 | 64.5 | 40.5 | 68.25 | 44.25 | 4.06 | 2.12 | 8.62 | 8.62 | HG112X24JEK |
| 1-3/4x18 | 28000 | 53.75 | 1.75 | 2.6 | 9.4 | 3.38 | 55.38 | 37.38 | 59.78 | 41.78 | 4.62 | 2.38 | 10 | 10 | HG134X18JEK |
| 1- 3/4x24 | 28000 | 60.68 | 1.75 | 2.6 | 9.4 | 3.38 | 67.38 | 43.38 | 71.78 | 47.78 | 4.62 | 2.38 | 10 | 10 | HG134X24JEK |
| 2x24 | 37000 | 89 | 2 | 2.62 | 11.86 | 3.69 | 72.62 | 48.62 | 77.95 | 53.95 | 5.75 | 2.69 | 13.09 | 13.09 | HG2X24JEK |

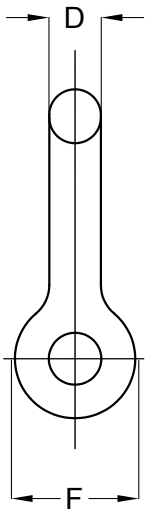



# Jaw & Jaw Turnbuckles

## Drop Forged, Hot Dipped Galvanized

| Thread Dia & Take Up | Working Load Limit | Weight Per Piece in | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | E | G | J | K | M | N | BB | |
| in | lbs | lbs | | Open | Closed | Open | Closed | Open | Closed | | | |
| 1/4x4 | 500 | 0.36 | 0.25 | 0.45 | 1.58 | 0.62 | 10.9 | 6.9 | 11.9 | 7.9 | 4 | HG14X4JJK |
| 5/16x4-1/2 | 800 | 0.52 | 0.31 | 0.5 | 1.98 | 0.87 | 12.36 | 8.36 | 13.9 | 9.4 | 4.5 | HG516X412JJK |
| 3/8x6 | 1200 | 0.81 | 0.38 | 0.54 | 2.12 | 0.87 | 16.14 | 10.14 | 17.38 | 11.38 | 6 | HG38X6JJK |
| 1/2x6 | 2200 | 1.5 | 0.5 | 0.68 | 2.75 | 1.06 | 17.5 | 11.5 | 19 | 13 | 6 | HG12X6JJK |
| 1/2X9 | 2200 | 1.74 | 0.5 | 0.68 | 2.75 | 1.06 | 23.5 | 14.5 | 25 | 16 | 9 | HG12X9JJK |
| 1/2x12 | 2200 | 2.4 | 0.5 | 0.68 | 2.75 | 1.06 | 29.5 | 17.5 | 31 | 19 | 12 | HG12X12JJK |
| 5/8x6 | 3500 | 2.72 | 0.63 | 0.82 | 3.5 | 1.31 | 18.8 | 12.8 | 20.88 | 14.88 | 6 | HG58X6JJK |
| 5/8X9 | 3500 | 3.24 | 0.63 | 0.82 | 3.5 | 1.31 | 24.8 | 15.8 | 26.88 | 17.88 | 9 | HG58X9JJK |
| 5/8x12 | 3500 | 3.74 | 0.63 | 0.82 | 3.5 | 1.31 | 30.8 | 18.8 | 32.88 | 20.88 | 12 | HG58X12JJK |
| 3/4x6 | 5200 | 4.11 | 0.75 | 1.03 | 4.18 | 1.5 | 20 | 14 | 22.6 | 16.6 | 6 | HG34X6JJK |
| 3/4X9 | 5200 | 5.1 | 0.75 | 1.03 | 4.18 | 1.5 | 26 | 17 | 28.6 | 19.6 | 9 | HG34X9JJK |
| 3/4x12 | 5200 | 5.65 | 0.75 | 1.03 | 4.18 | 1.5 | 32 | 20 | 34.6 | 22.6 | 12 | HG34X12JJK |
| 3/4x18 | 5200 | 7 | 0.75 | 1.03 | 4.18 | 1.5 | 44 | 26 | 46.6 | 28.6 | 18 | HG34X18JJK |
| 7/8x12 | 7200 | 8.17 | 0.88 | 1.23 | 4.85 | 1.75 | 33.36 | 21.36 | 36.32 | 24.32 | 12 | HG78X12JJK |
| 7/8X18 | 7200 | 9.96 | 0.88 | 1.23 | 4.85 | 1.75 | 45.36 | 27.36 | 48.32 | 30.32 | 18 | HG78X18JJK |
| 1X6 | 10000 | 8.5 | 1 | 1.31 | 5.53 | 2.06 | 22.72 | 16.72 | 26.06 | 20.06 | 6 | HG1X6JJK |
| 1x12 | 10000 | 12 | 1 | 1.31 | 5.53 | 2.06 | 34.72 | 22.72 | 38.06 | 26.06 | 12 | HG1X12JJK |
| 1X18 | 10000 | 14 | 1 | 1.31 | 5.53 | 2.06 | 46.72 | 28.72 | 50.06 | 32.06 | 18 | HG1X18JJK |
| 1X24 | 10000 | 17 | 1 | 1.31 | 5.53 | 2.06 | 58.72 | 34.72 | 62.06 | 38.06 | 24 | HG1X24JJK |
| 1-1/4X12 | 15200 | 21.5 | 1.25 | 1.86 | 7.21 | 2.81 | 37.34 | 25.34 | 41.54 | 29.54 | 12 | HG114X12JJK |
| 1-1/4x18 | 15200 | 24.25 | 1.25 | 1.86 | 7.21 | 2.81 | 49.34 | 31.34 | 53.54 | 35.54 | 18 | HG114X18JJK |
| 1-1/4x24 | 15200 | 28 | 1.25 | 1.86 | 7.21 | 2.81 | 61.34 | 37.34 | 65.54 | 41.54 | 24 | HG114X24JJK |
| 1-1/2x12 | 21400 | 30.5 | 1.5 | 2.25 | 7.88 | 2.81 | 38.5 | 26.5 | 43.5 | 31.5 | 12 | HG12X12JJK |
| 1-1/2x18 | 21400 | 36.75 | 1.5 | 2.25 | 7.88 | 2.81 | 50.5 | 32.5 | 55.5 | 37.5 | 18 | HG12X18JJK |
| 1-1/2x24 | 21400 | 40.67 | 1.5 | 2.25 | 7.88 | 2.81 | 62.5 | 38.5 | 67.5 | 43.5 | 24 | HG112X24JJK |
| 1-3/4x18 | 28000 | 55.04 | 1.75 | 2.6 | 9.4 | 3.38 | 53.38 | 35.38 | 59.18 | 41.18 | 18 | HG134X18JJK |
| 1- 3/4x24 | 28000 | 63.36 | 1.75 | 2.6 | 9.4 | 3.38 | 65.38 | 41.38 | 71.18 | 47.18 | 24 | HG134X24JJK |
| 2x24 | 37000 | 94.25 | 2 | 2.62 | 11.86 | 3.69 | 69.54 | 45.54 | 76.72 | 52.72 | 24 | HG2X24JJK |






# Screw Pin Anchor Shackles

## Drop Forged, Carbon Steel, Heat Treated

| Nominal Size | Working Load Limit | Dimensions (in) | | | | | | | | | Weight Per Piece In | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | M | | |
| in | tons | | | | | | | | | | lbs | |
| 1/2 | 2 | 0.81 | 0.63 | 0.5 | 1.63 | 0.5 | 1.19 | 1.81 | 3.03 | 2.69 | 0.59 | HG12SPASK |
| 5/8 | 3 1/4 | 1.06 | 0.75 | 0.62 | 2 | 0.63 | 1.5 | 2.31 | 3.75 | 3.34 | 1.25 | HG58SPASK |
| 3/4 | 4 3/4 | 1.25 | 0.88 | 0.81 | 2.38 | 0.75 | 1.81 | 2.75 | 4.53 | 3.97 | 2.63 | HG34SPASK |
| 7/8 | 6 1/2 | 1.44 | 1 | 0.97 | 2.81 | 0.88 | 2.09 | 3.19 | 5.33 | 4.5 | 3.16 | HG78SPASK |
| 1 | 8 1/2 | 1.69 | 1.13 | 1 | 3.19 | 1 | 2.38 | 3.69 | 5.94 | 5.07 | 4.75 | HG1SPASK |
| 1 1/8 | 9 1/2 | 1.81 | 1.25 | 1.25 | 3.58 | 1.13 | 2.69 | 4.06 | 6.78 | 5.59 | 6.75 | HG118SPASK |
| 1 1/4 | 12 | 2.03 | 1.38 | 1.38 | 3.94 | 1.25 | 3 | 4.53 | 7.5 | 6.16 | 9.06 | HG114SPASK |
| 1 3/8 | 13 1/2 | 2.25 | 1.5 | 1.5 | 4.38 | 1.38 | 3.31 | 5 | 8.28 | 6.84 | 11.63 | HG138SPASK |
| 1 1/2 | 17 | 2.38 | 1.63 | 1.62 | 4.81 | 1.5 | 3.62 | 5.38 | 9.06 | 7.35 | 15.95 | HG112SPASK |
| 2 | 35 | 3.25 | 2.25 | 2 | 6.75 | 2 | 4.81 | 7.25 | 12.28 | 10.34 | 26.75 | HG2SPASK |
| 2 1/2 | 55 | 4.13 | 2.75 | 2.62 | 8 | 2.62 | 5.69 | 9.38 | 14.84 | 13 | 42.31 | HG212SPASK |
| 3 | - | - | - | - | - | - | - | - | - | - | 71.75 | HG3SPASK |

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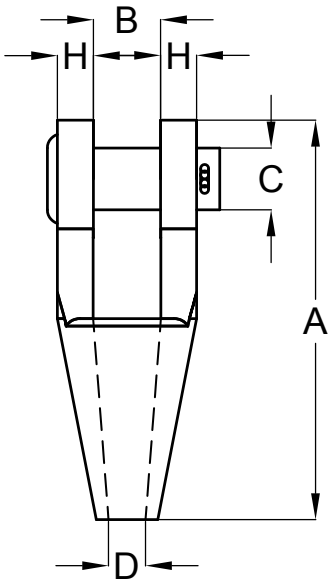
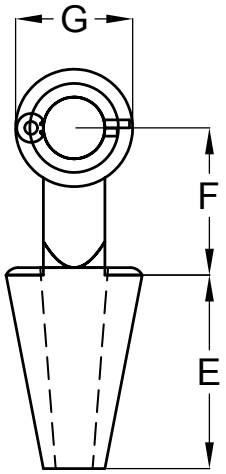
energy API



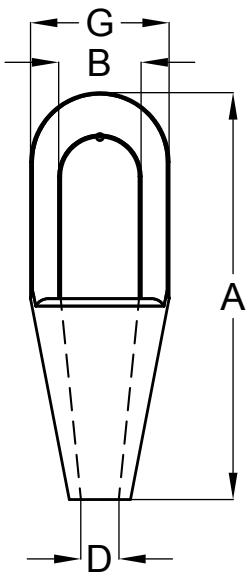



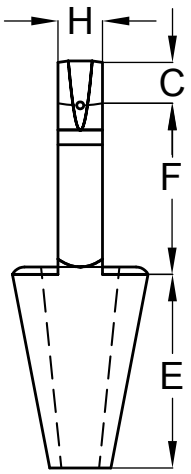



# Open Spelter Sockets

## Meet Federal Specifications RR-S-550D

| Size | Dimensions (in) | | | | | | | | Weight ea in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | | |
| in | | | | | | | | | lbs | |
| 5/16-3/8 | 4.88 | 0.81 | .81 | .50 | 2.25 | 1.75 | 1.50 | 0.44 | 1.30 | 516OSS |
| 7/16-1/2 | 5.56 | 1 | 1 | .56 | 2.50 | 2.00 | 1.88 | 0.50 | 2.30 | 716OSS |
| 9/16-5/8 | 6.75 | 1.25 | 1.19 | .69 | 3. | 2.50 | 2.25 | .56 | 3.80 | 916OSS |
| 3/4 | 7.94 | 1.50 | 1.38 | .81 | 3.50 | 3.00 | 2.63 | .63 | 6.00 | 34OSS |
| 7/8 | 9.25 | 1.75 | 1.63 | .94 | 4.00 | 3.50 | 3.13 | .75 | 10.00 | 78OSS |
| 1 | 10.56 | 2.00 | 2.00 | 1.13 | 4.50 | 4.00 | 3.75 | 0.88 | 15.50 | 1OSS |
| 1-1/8 | 11.81 | 2.25 | 2.25 | 1.25 | 5.00 | 4.50 | 4.13 | 1.00 | 22.00 | 118OSS |
| 1-1/4-1-3/8 | 13.19 | 2.50 | 2.50 | 1.50 | 5.50 | 5.00 | 4.75 | 1.13 | 32.00 | 114OSS |
| 1-1/2 | 15.13 | 3.00 | 2.75 | 1.63 | 600 | 6.00 | 5.38 | 1.19 | 46.00 | 112OSS |
| 1-5/8 | 16.25 | 3.00 | 3 | 1.75 | 6.50 | 6.50 | 5.75 | 1.31 | 55.00 | 158OSS |
| 1-3/4-1-7/8 | 18.25 | 3.50 | 3.50 | 2.00 | 7.50 | 7.00 | 6.50 | 1.56 | 85.00 | 134OSS |
| 2-2-1/8 | 21.50 | 4.00 | 3.75 | 2.25 | 8.50 | 9.00 | 7.00 | 1.81 | 125.00 | 2OSS |
| 2-1/4-2-3/8 | 23.50 | 4.50 | 4.50 | 2.50 | 9.00 | 10.00 | 7.75 | 2.13 | 165.00 | 214OSS |
| 2-1/2-2-5/8 | 25.50 | 5. | 4.75 | 2.88 | 9.75 | 10.75 | 8.50 | 2.38 | 252.00 | 212OSS |
| 2-3/4-2-7/8 | 27.25 | 5.25 | 5 | 3.13 | 11.00 | 11.00 | 9.00 | 2.88 | 315.00 | 234OSS |
| 3-3-1/8 | 29.00 | 5.75 | 5.25 | 3.38 | 12.00 | 11.25 | 9.50 | 3.00 | 380.00 | 3OSS |



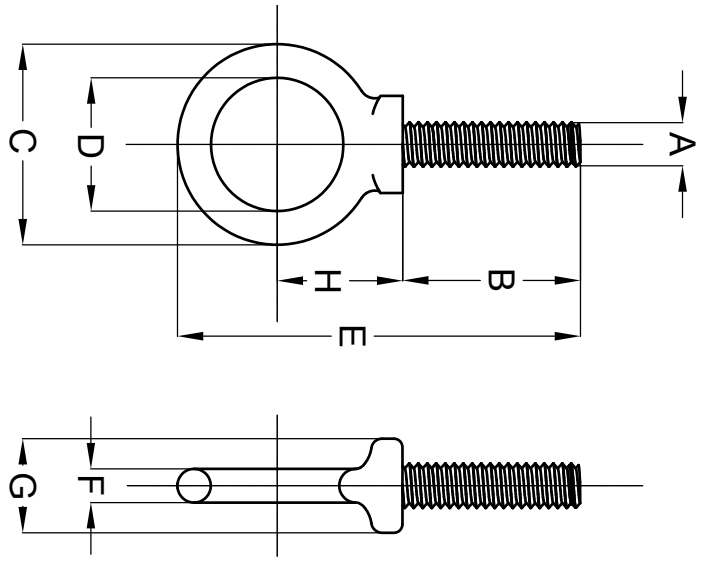






# Closed Spelter Sockets

## Meet Federal Specifications RR-S-550D

| Size | Dimensions (in) | | | | | | | | Weight ea in | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | | |
| in | | | | | | | | | lbs | |
| 5/16-3/8 | 4.88 | 0.94 | 0.63 | 0.50 | 2.25 | 2.00 | 1.69 | 0.69 | 1.10 | 516CSS |
| 7/16-1/2 | 5.44 | 1.13 | 0.69 | 0.56 | 2.50 | 2.25 | 2.00 | 0.88 | 1.50 | 716CSS |
| 9/16-5/8 | 6.31 | 1.38 | 0.81 | 0.69 | 3.00 | 2.50 | 2.63 | 1.00 | 3.00 | 916CSS |
| 3/4 | 7.56 | 1.63 | 1.06 | 0.81 | 3.50 | 3.00 | 3.00 | 1.25 | 4.50 | 34CSS |
| 7/8 | 8.75 | 1.88 | 1.25 | 0.94 | 4.00 | 3.50 | 3.63 | 1.50 | 7.00 | 78CSS |
| 1 | 9.88 | 2.25 | 1.38 | 1.13 | 4.50 | 4.00 | 4.13 | 1.75 | 11.00 | 1CSS |
| 1-1/8 | 11.00 | 2.50 | 1.50 | 1.25 | 5.00 | 4.50 | 4.50 | 2.00 | 16.00 | 118CSS |
| 1-1/4-1-3/8 | 12.13 | 2.75 | 1.63 | 1.50 | 5.50 | 5.00 | 5.00 | 2.25 | 22.00 | 114CSS |
| 1-1/2 | 13.94 | 3.13 | 1.94 | 1.63 | 6.00 | 6.00 | 5.38 | 2.50 | 28.00 | 112CSS |
| 1-5/8 | 15.38 | 3.25 | 2.13 | 1.75 | 6.50 | 6.75 | 5.75 | 2.75 | 36.00 | 158CSS |
| 1-3/4-1-7/8 | 17.25 | 3.53 | 2.79 | 2.00 | 7.50 | 7.56 | 6.75 | 3.00 | 58.00 | 134CSS |
| 2-2-1/8 | 19.50 | 3.78 | 2.44 | 2.25 | 8.50 | 8.56 | 7.63 | 3.25 | 80.00 | 2CSS |
| 2-1/4-2-3/8 | 21.38 | 4.28 | 2.88 | 2.50 | 9.00 | 9.50 | 8.50 | 3.63 | 105.00 | 214CSS |
| 2-1/2-2-5/8 | 23.50 | 5.50 | 3.13 | 2.88 | 9.75 | 10.63 | 9.50 | 4.00 | 140.00 | 212CSS |
| 2-3/4-2-7/8 | 25.38 | 6.50 | 3.13 | 3.13 | 11.00 | 11.25 | 10.75 | 4.88 | 220.00 | 234CSS |
| 3-3-1/8 | 27.00 | 6.75 | 3.25 | 3.38 | 12.00 | 11.75 | 11.50 | 5.25 | 276.00 | 3CSS |

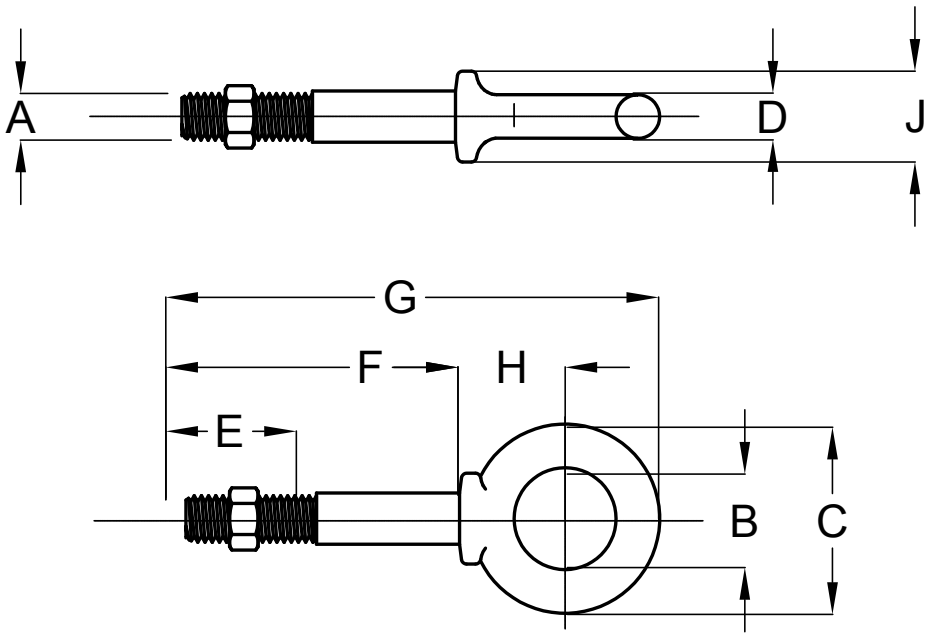



# Shoulder Type Machinery Eye Bolts

## Stainless Steel, Type 316

## Meets or exceeds all requirements of ASME B30.26

| Diameter & Shank Length (in) | A-T.P.I. | Dimensions (in) | | | | | | | Working Load Limit LBS | Weight Per Piece in LBS | Stainless Steel Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | B | C | D | E | F | G | H | | | |
| 1/4 x 1 | 1/4"-20 | 1.02 | 1.13 | 0.75 | 2.29 | 0.19 | 0.53 | 0.70 | 575 | 0.05 | SS14X1ME |
| 5/16 X 1-1/8 | 5/16"-18 | 1.15 | 1.38 | 0.88 | 2.74 | 0.25 | 0.59 | 0.90 | 1217 | 0.09 | SS516X118ME |
| 3/8 X 1-1/4 | 3/8"-16 | 1.27 | 1.62 | 1.00 | 3.07 | 0.31 | 0.69 | 1.00 | 1300 | 0.15 | SS38X114ME |
| 1/2 X 1-1/2 | 1/2"-13 | 1.53 | 1.95 | 1.19 | 3.70 | 0.38 | 0.91 | 1.20 | 2288 | 0.28 | SS12X112ME |
| 5/8 X 1-3/4 | 5/8"-11 | 1.79 | 2.38 | 1.38 | 4.45 | 0.50 | 1.13 | 1.47 | 3500 | 0.55 | SS58X134ME |
| 3/4 X 2 | 3/4"-10 | 2.05 | 2.76 | 1.50 | 5.07 | 0.63 | 1.38 | 1.64 | 5250 | 0.96 | SS34X2ME |
| 7/8 X 2-1/4 | 7/8"-9 | 2.31 | 3.25 | 1.75 | 5.87 | 0.75 | 1.56 | 1.94 | 3266 | 1.54 | SS78X214ME |
| 1 X 2-1/2 | 1"-8 | 2.57 | 3.76 | 2.00 | 6.66 | 0.88 | 1.81 | 2.21 | 6500 | 2.38 | SS1X212ME |



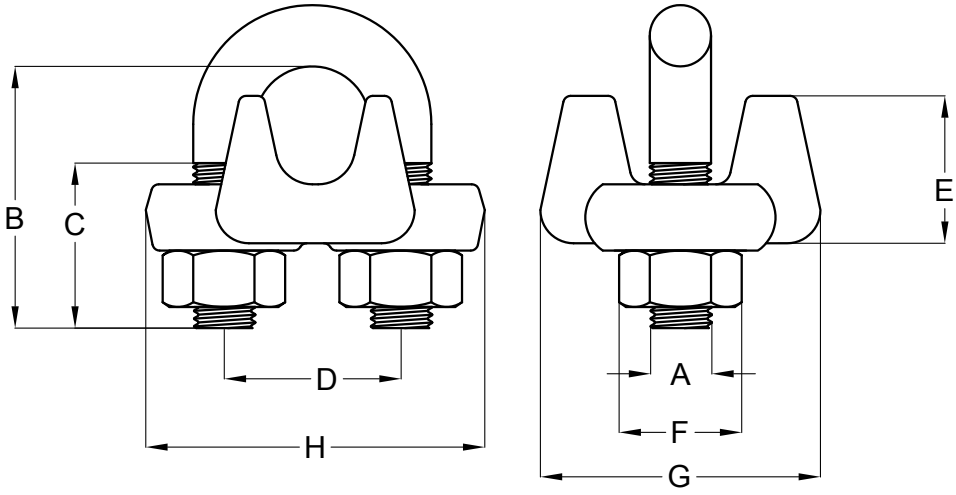



# Shoulder Eye Bolts

## Stainless Steel Type 316

## Meets or exceeds all requirements of ASME B30.26

| Diameter & Shank Length (in) | Dimensions (in) | | | | | | | | | Working Load Limit LBS | Weight Per Piece in LBS | Stainless Steel Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | J | | | |
| 1/4 x 2 | .25 | .50 | .88 | .19 | 1.50 | 2.00 | 2.94 | .50 | .47 | 767 | .066 | SS14X2SN |
| 1/4 x 2-1/2 | .25 | .50 | .88 | .19 | 2.50 | 4.00 | 4.94 | .50 | .47 | 767 | .091 | SS14X212SN |
| 5/16 x 2-1/4 | .31 | .62 | 1.12 | .25 | 1.50 | 2.25 | 3.50 | .69 | .56 | 780 | .125 | SS516X214SN |
| 5/16 x 4-1/4 | .31 | .62 | 1.12 | .25 | 2.50 | 4.25 | 5.50 | .69 | .56 | 780 | .188 | SS516X414SN |
| 3/8 x 2-1/2 | .38 | .75 | 1.38 | .31 | 1.50 | 2.50 | 3.97 | .78 | .66 | 1,734 | .214 | SS38X212SN |
| 3/8 x 4-1/2 | .38 | .75 | 1.38 | .31 | 2.50 | 4.50 | 5.97 | .78 | .66 | 1,200 | .253 | SS38X412SN |
| 1/2 x 3-1/4 | .50 | 1.00 | 1.75 | .38 | 1.50 | 3.25 | 5.12 | 1.00 | .91 | 2,150 | .426 | SS12X314SN |
| 1/2 x 6 | .50 | 1.00 | 1.75 | .38 | 3.00 | 6.00 | 7.88 | 1.00 | .91 | 2,150 | .568 | SS12X6SN |
| 5/8 x 4 | .62 | 1.25 | 2.25 | .50 | 2.00 | 4.00 | 6.44 | 1.31 | 1.12 | 3,440 | .686 | SS58X4SN |
| 5/8 x 6 | .62 | 1.25 | 2.25 | .50 | 3.00 | 6.00 | 8.44 | 1.31 | 1.12 | 3,440 | 1.024 | SS58X6SN |
| 3/4 x 4-1/2 | .75 | 1.50 | 2.75 | .62 | 2.00 | 4.50 | 7.44 | 1.56 | 1.38 | 5,140 | 1.445 | SS34X412SN |
| 3/4 x 6 | .75 | 1.50 | 2.75 | .62 | 3.00 | 6.00 | 8.94 | 1.56 | 1.38 | 5,140 | 1.675 | SS34X6SN |

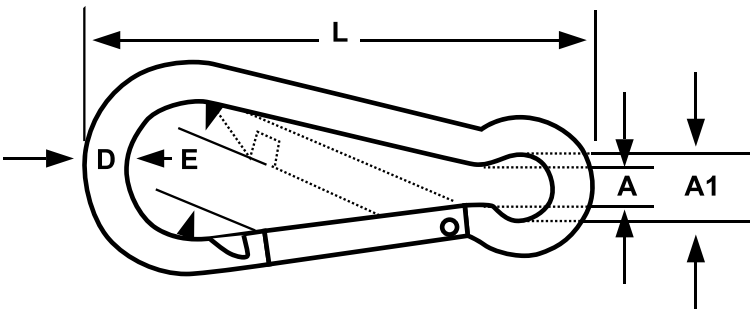



HARDWARE

# Stainless Steel Wire Rope Clips

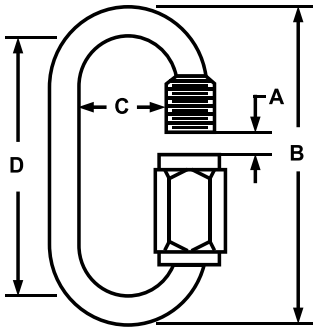
## Type 304 & 316 Stainless Steel
## To FF-C-450 Type 1, Class 1

| Size | Weight per piece | Dimensions (in) | | | | | | | | Part No. Type 304 | Part No. Type 316 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | | |
| 1/8 | .06 | .22 | .72 | .44 | .47 | .41 | .38 | .81 | .94 | SC18 | SSC18 |
| 3/16 | .10 | .25 | .97 | .56 | .59 | .50 | .44 | .94 | 1.16 | SC316 | SSC316 |
| 1/4 | .20 | .31 | 1.03 | .50 | .75 | .66 | .56 | 1.19 | 1.44 | SC14 | SSC14 |
| 3/8 | .47 | .44 | 1.50 | .75 | 1.00 | .91 | .75 | 1.63 | 1.94 | SC38 | SSC38 |
| 1/2 | .77 | .50 | 1.88 | 1.00 | 1.19 | 1.13 | .88 | 1.91 | 2.28 | SC12 | SSC12 |
| 5/8 | 1.06 | .56 | 2.38 | 1.25 | 1.31 | 1.34 | .94 | 2.06 | 2.50 | SC58 | SSC58 |
| 3/4 | 1.42 | 0.62 | 2.75 | 1.44 | 1.50 | 1.39 | 1.06 | 2.25 | 2.84 | SC34 | SSC34 |
| 1 | 2.52 | 0.75 | 3.50 | 1.81 | 1.88 | 1.77 | 1.25 | 2.63 | 3.47 | n/a | SSC1 |



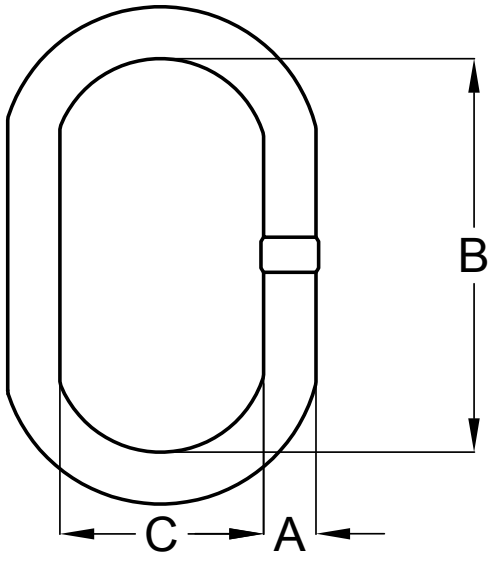

## Spring Snap Hooks
### Stainless Steel Type 316

| Size (A) | B | C | D | E | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|---|
| 3/16" | 0.32 | 2.00 | .25 | 1/4" | 120 | 0.04 | SS316SH |
| 1/4" | .36 | 2.38 | .27 | 5/16" | 180 | 0.06 | SS14SH |
| 5/16" | .48 | 3.13 | .38 | 3/8" | 280 | 0.15 | SS516SH |
| 3/8" | .63 | 3.88 | .54 | 9/16" | 400 | 0.27 | SS38SH |
| 7/16" | .75 | 4.63 | .65 | 11/18" | 550 | 0.42 | SS716SH |
| 1/2" | 0.90 | 6.25 | .95 | 1" | 900 | 0.78 | SS12SH |




## Quick Links/Rapid Links
### Stainless Steel Type 316

| Size (A) | B | C | D | E | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|---|
| 1/8" | 1.15 | .43 | .18 | .21 | 200 | 0.02 | SS18RL |
| 3/16" | 1.56 | .53 | .28 | .29 | 800 | 0.05 | SS316RL |
| 1/4" | 1.86 | .58 | .32 | .35 | 1200 | 0.08 | SS14RL |
| 5/16" | 2.29 | .70 | .44 | .44 | 2000 | 0.16 | SS516RL |
| 3/8" | 2.78 | .78 | .52 | .52 | 3500 | 0.29 | SS38RL |
| 1/2" | 3.22 | 1.00 | .53 | .60 | 5000 | 0.52 | SS12RL |

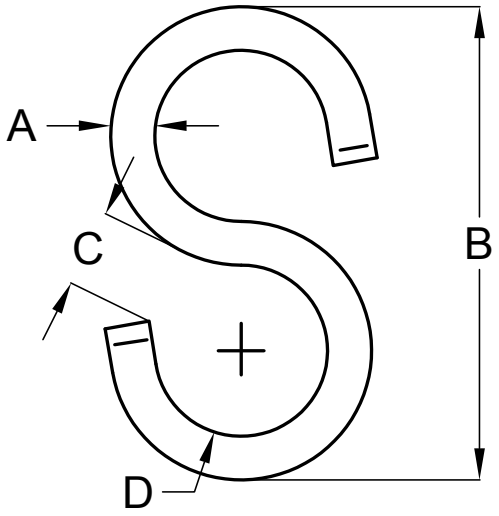





# Oblong Master Links

## Stainless Steel Type 316

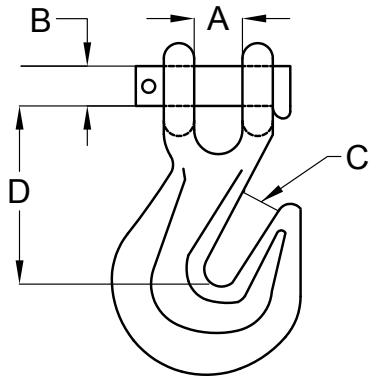
| Size (A) | B | C | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|
| 3/8 | 3.00 | 1.50 | 1,500 | 0.35 | SS38OML |
| 1/2 | 5.00 | 2.50 | 2,000 | 0.84 | SS12OML |
| 5/8 | 6.00 | 3.00 | 2,800 | 1.61 | SS58OML |
| 3/4 | 6.50 | 3.25 | 3,750 | 2.26 | SS34OML |
| 1 | 7.00 | 3.50 | 8,000 | 4.94 | SS1OML |
| 1-1/4 | 8.75 | 4.38 | 11,800 | 9.65 | SS114OML |





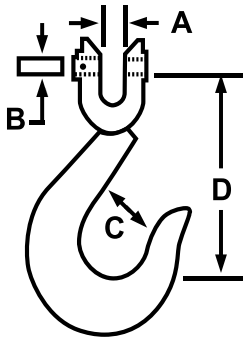

# S Hooks
## Stainless Steel Type 316

| Size (A) | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. Type 316 |
|---|---|---|---|---|---|---|
| 1/8 | 1.38 | .20 | .42 | 50 | .01 | SSH18 |
| 5/32 | 1.59 | .20 | .51 | 80 | .02 | SSH532 |
| 3/16 | 1.90 | .29 | .63 | 120 | .04 | SSH316 |
| 1/4 | 2.25 | .32 | .70 | 200 | 0.06 | SSH14 |
| 5/16 | 2.58 | .46 | .75 | 350 | 0.12 | SSH516 |



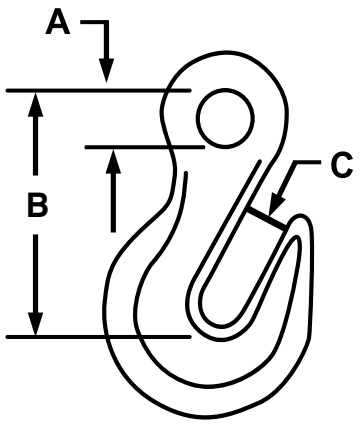

## Clevis Grab Hooks
### Stainless Steel Type 316

| Size (in) | A | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|---|
| 1/4 | 0.37 | 0.41 | 0.34 | 1.83 | 1,500 | 0.40 | SS14CGH |
| 5/16 | 0.36 | 0.36 | 0.40 | 2.08 | 2,000 | 0.60 | SS516CGH |
| 3/8 | 0.47 | 0.43 | 0.48 | 2.55 | 2,500 | 1.05 | SS38CGH |
| 1/2 | 0.54 | 0.50 | 0.60 | 2.85 | 3,600 | 1.84 | SS12CGH |

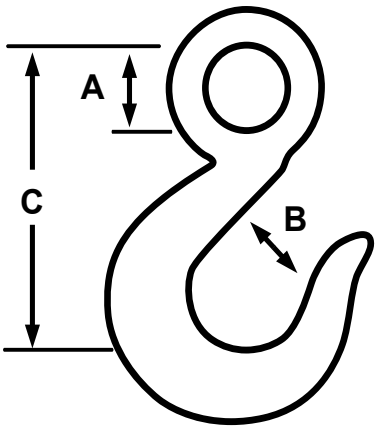

## Clevis Slip Hooks
### Stainless Steel Type 316

| Size (in) | A | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|---|
| 1/4 | 0.31 | 0.41 | 0.58 | 2.59 | 1,000 | 0.57 | SS14CSH |
| 5/16 | 0.37 | 0.42 | 0.83 | 2.71 | 1,500 | 0.82 | SS516CSH |
| 3/8 | 0.47 | 0.56 | 0.95 | 3.23 | 2,000 | 1.14 | SS38CSH |
| 1/2 | 0.54 | 0.64 | 1.05 | 3.58 | 3,000 | 2.13 | SS12CSH |

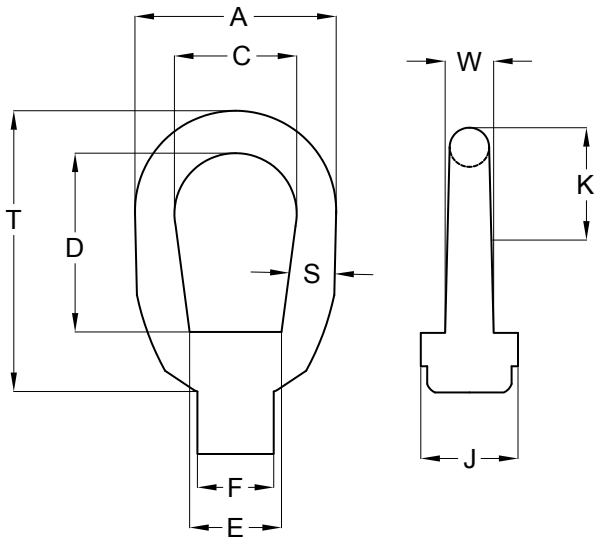

## Eye Grab Hooks
### Stainless Steel Type 316

| Size (A) | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|
| 1/4 | 0.50 | 0.35 | 2.00 | 1,500 | 0.35 | SS14EGH |
| 5/16 | 0.56 | 0.43 | 2.25 | 2,000 | 0.56 | SS516EGH |
| 3/8 | 0.65 | 0.50 | 2.50 | 2,500 | 0.89 | SS38EGH |
| 1/2 | 0.88 | 0.66 | 3.35 | 3,600 | 1.51 | SS12EGH |




## Eye Slip Hook
### Stainless Steel Type 316

| Size (A) | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|
| 1/4 | 0.53 | 0.68 | 2.54 | 1,000 | 0.30 | SS14ESH |
| 5/16 | 0.65 | 0.75 | 3.00 | 1,500 | 0.54 | SS516ESH |
| 3/8 | 0.71 | 0.80 | 3.28 | 2,000 | 1.04 | SS38ESH |
| 1/2 | 0.94 | 1.02 | 4.17 | 3,000 | 1.87 | SS12ESH |



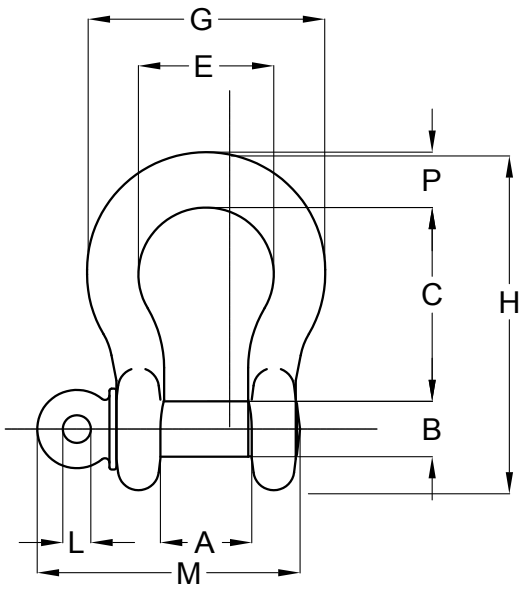



# Eye Nuts

## Stainless Steel Type 316

## Meets or exceeds all requirements of ASME B30.26

| Size No. | Tap No. | Dimensions (in) | | | | | | | | | | Working Load Limit LBS | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | C | D | E | F | J | K | N | T | W | | | |
| 1 | 1/4 | 1.25 | 0.75 | 1.00 | 0.75 | 0.50 | 0.69 | 0.63 | 0.46 | 1.72 | 0.31 | 520 | 0.09 | SSF1EN |
| 2 | 3/8 | 1.62 | 1.00 | 1.20 | 0.83 | 0.56 | 0.81 | 0.89 | 0.58 | 2.09 | 0.41 | 1,250 | 0.17 | SSF2EN |
| 3A | 1/2 | 2.00 | 1.25 | 1.44 | 1.08 | 0.81 | 1.00 | 1.09 | 0.73 | 2.55 | 0.50 | 2,250 | 0.28 | SSF3AEN |
| 4 | 5/8 | 2.50 | 1.50 | 1.92 | 1.35 | 1.00 | 1.31 | 1.31 | 0.83 | 3.25 | 0.69 | 3,600 | 0.60 | SSF4EN |
| 5 | 3/4 | 3.00 | 1.75 | 2.28 | 1.59 | 1.12 | 1.50 | 1.57 | 1.05 | 3.96 | 0.84 | 5,200 | 1.00 | SSF5EN |
| 6 | 7/8 | 3.50 | 2.00 | 2.50 | 1.96 | 1.38 | 1.88 | 1.77 | 1.14 | 4.40 | 1.00 | 7,200 | 1.65 | SSF6EN |
| 7 | 1 | 4.00 | 2.25 | 2.92 | 2.21 | 1.56 | 2.13 | 2.02 | 1.30 | 5.10 | 1.19 | 10,000 | 2.69 | SSF7EN |

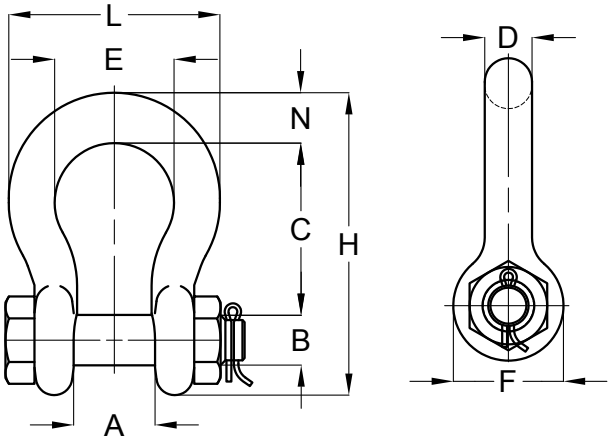





# Load Rated Screw Pin Chain Shackles

## Stainless Steel Type 316 With Oversize Pin

| Size (A) | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|
| 1/4" | 0.31 | .46 | .87 | 1000 | 0.09 | SS14SPCS |
| 5/16" | .38 | .52 | 1.02 | 1300 | 0.16 | SS516SPCS |
| 3/8" | .44 | .65 | 1.24 | 1500 | .28 | SS38SPCS |
| 7/16" | .50 | .75 | 1.43 | 2000 | .43 | SS716SPCS |
| 1/2" | .63 | .79 | 1.58 | 3000 | 0.70 | SS12SPCS |
| 5/8" | .75 | 1.05 | 1.94 | 4000 | 1.70 | SS58SPCS |
| 3/4" | .88 | 1.20 | 2.40 | 6000 | 2.13 | SS34SPCS |
| 7/8" | 1.00 | 1.45 | 2.88 | 8000 | 3.22 | SS78SPCS |
| 1" | 1.13 | 1.67 | 3.20 | 10000 | 4.77 | SS1SPCS |

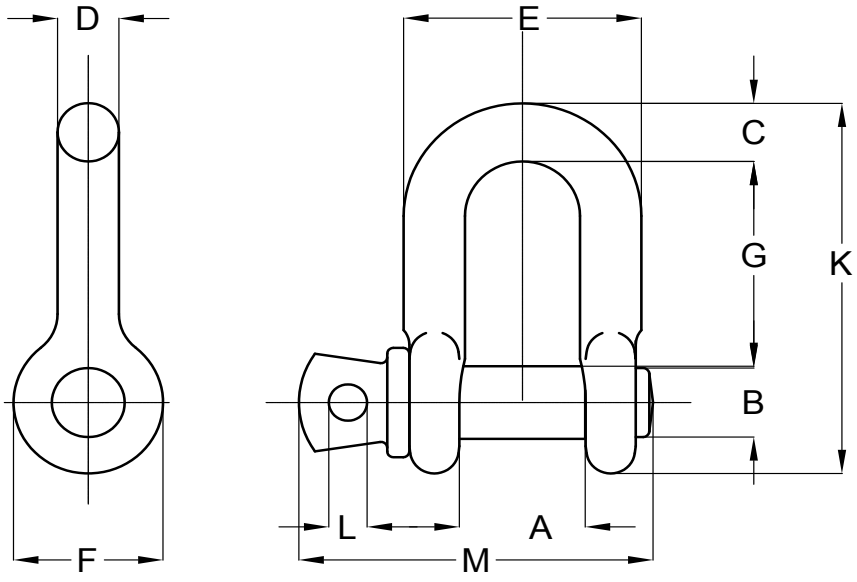





# Load Rated Bolt Type Anchor Shackles

## Stainless Steel Type 316

| A Size | B Pin Dia | C Inside Width | D Inside Length | E | F | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|---|---|
| 1/4 | 5/16 | 1.06 | 0.47 | .66 | 0.75 | 1,000 | 0.06 | SS14BTAS |
| 5/16 | 3/8 | 1.25 | .53 | .81 | 0.84 | 1,300 | 0.12 | SS516BTAS |
| 3/8 | 7/16 | 1.44 | .63 | .97 | 1.00 | 1,500 | 0.25 | SS38BTAS |
| 1/2 | 5/8 | 1.88 | .81 | 1..31 | 1.25 | 3,000 | 0.56 | SS12BTAS |
| 5/8 | 3/4 | 2.44 | 1.06 | 1.56 | 1.69 | 4,000 | 1.00 | SS58BTAS |
| 3/4 | 7/8 | 2.88 | 1.19 | 1.88 | 1.94 | 6,000 | 1.67 | SS34BTAS |
| 7/8 | 1 | 3.38 | 1.44 | 2.13 | 2.19 | 8,000 | 2.53 | SS78BTAS |
| 1 | 1-1/8 | 3.81 | 1.69 | 2.38 | 2.63 | 10,000 | 3.80 | SS1BTAS |

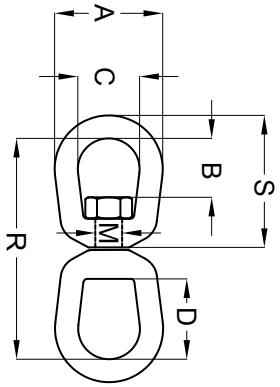






# Screw Pin Anchor Shackles

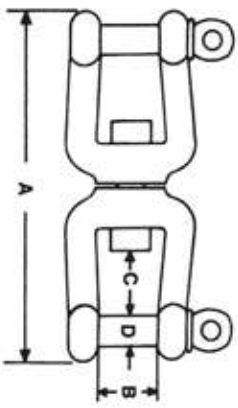
## Stainless Steel Type 304 and Type 316

| A Size | Pin Diam. in Inches (B) | C | D | E | F | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. Type 304 | Part No. Type 316 |
|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 5/16 | 1.06 | 0.47 | .66 | .75 | 450 | .10 | SLR14SPAS | SSLR14SPAS |
| 5/16 | 3/8 | 1.25 | 0.53 | .81 | .84 | 650 | .18 | SLR516SPAS | SSLR516SPAS |
| 3/8 | 7/16 | 1.44 | .63 | .97 | 1.00 | 1000 | .29 | SLR38SPAS | SSLR38SPAS |
| 1/2 | 5/8 | 1.88 | .81 | 1.31 | 1.25 | 1990 | .74 | SLR12SPAS | SSLR12SPAS |
| 5/8 | 3/4 | 2.44 | 1.06 | 1.56 | 1.69 | 3050 | 1.4 | SLR58SPAS | SSLR58SPAS |
| 3/4 | 7/8 | 2.88 | 1.19 | 1.88 | 1.94 | 4475 | 2.3 | SLR34SPAS | SSLR34SPAS |
| 7/8 | 1 | 3.38 | 1.44 | 2.13 | 2.19 | 6000 | 3.5 | SLR78SPAS | SSLR78SPAS |
| 1 | 1-1/8 | 3.81 | 1.69 | 2.38 | 2.63 | 77950 | 5.1 | SLR1SPAS | SSLR1SPAS |



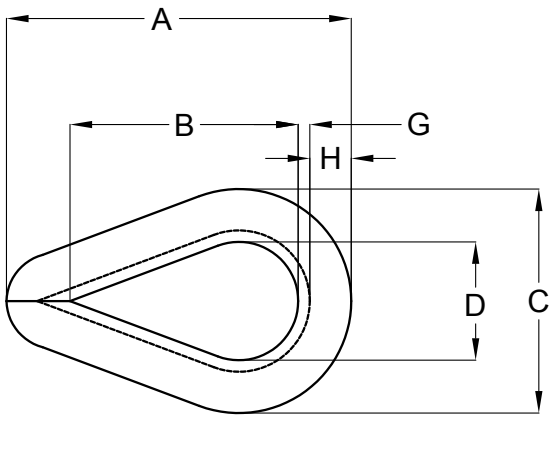

## Eye & Eye Swivels
### Stainless Steel Type 316

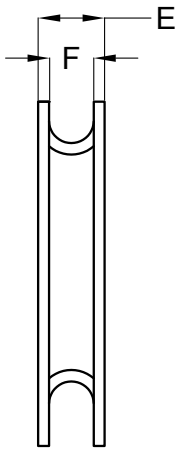
| Size (A) | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|
| 1/4 | .56 | .56 | 2.56 | 600 | .12 | SS14EES |
| 5/16 | .75 | .75 | 3.62 | 1100 | .29 | SS516ESS |
| 3/8 | .87 | 1.00 | 4.39 | 1540 | .55 | SS38ESS |
| 1/2 | 1.25 | 1.31 | 5.83 | 2640 | 1.25 | SS12ESS |
| 5/8 | 1.50 | 1.62 | 7.37 | 4750 | 2.10 | SS58ESS |
| 3/4 | 1.62 | 2.00 | 8.50 | 7000 | 3.40 | SS34ESS |
| 7/8 | 1.87 | 2.00 | 9.25 | 8000 | 5.02 | SS78ESS |
| 1 | 2.50 | 2.56 | 11.00 | 10000 | 8.73 | SS1ESS |




## Jaw and Jaw Swivels
### Stainless Steel Type 316

| Size (A) | B | C | D | Working Load Limit (LBS) | Weight Per Piece in LBS | Part No. |
|---|---|---|---|---|---|---|
| 1/4 | .50 | .44 | 2.63 | 650 | .15 | SS14JJS |
| 5/16 | .63 | .63 | 3.63 | 1200 | .38 | SS516JJS |
| 3/8 | .75 | .88 | 4.63 | 1500 | .75 | SS38JJS |
| 1/2 | 1 | 1.13 | 6 | 2600 | 1.50 | SS12JJS |
| 5/8 | 1.25 | 1.38 | 7.38 | 4500 | 2.60 | SS58JJS |
| 3/4 | 0.75 | 1.63 | 8.63 | 7000 | 4.30 | SS34JJS |

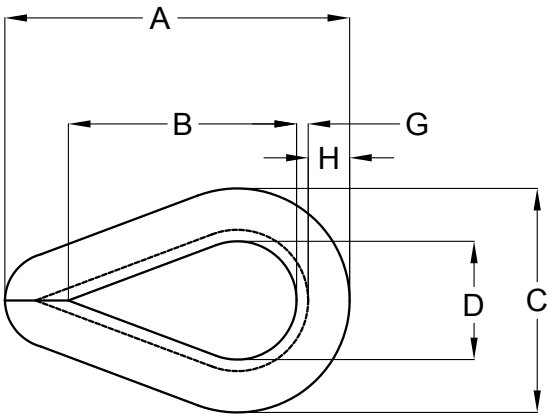


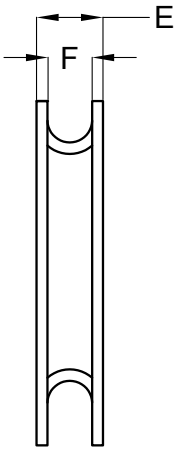




# Stainless Steel Heavy Duty Wire Rope Thimbles

## Type 304 and 316 Stainless Steel
## To FF-T-276B, Type III

| Size | Weight per piece | Dimensions (in) | | | | | | | | Part No. Type 304 | Part No. Type 316 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | | |
| 1/4 | .65 | 2.19 | 1.62 | 1.50 | .88 | .44 | .28 | .06 | 0.25 | SHDT14 | SSHDT14 |
| 5/16 | .118 | 2.50 | 1.88 | 1.81 | 1.06 | .50 | .34 | 0.08 | 0.30 | SHDT516 | SSHD516 |
| 3/8 | .216 | 2.88 | 2.12 | 2.12 | 1.12 | .63 | .41 | .11 | 0.39 | SHDT38 | SSHDT38 |
| 1/2-9/16 | .51 | 3.62 | 2.75 | 2.75 | 1.50 | .89 | .59 | .15 | 0.48 | SHDT12 | SSHDT12 |
| 5/8 | .757 | 4.25 | 3.25 | 3.12 | 1.75 | 1.00 | .66 | .16 | 0.53 | SHDT58 | SSHDT58 |
| 3/4 | 1.581 | 5.00 | 3.75 | 3.81 | 2.00 | 1.22 | .78 | .22 | 0.69 | SHDT34 | SSHDT34 |
| 7/8 | 1.78 | 5.50 | 4.25 | 4.25 | 2.25 | 1.38 | 0.94 | 0.22 | 0.78 | SHDT78 | SSHDT78 |
| 1 | 3.14 | 6.12 | 4.50 | 4.75 | 2.50 | 1.56 | 1.06 | 0.25 | 0.88 | SHDT1 | SSHDT1 |

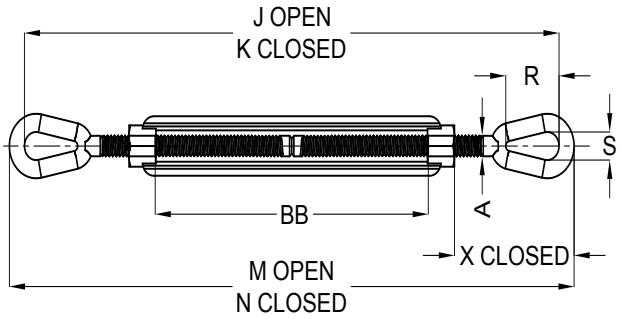



# Stainless Steel Regular Duty Wire Rope Thimbles

## Type 304 Stainless Steel
## To FF-T-276B, Type II

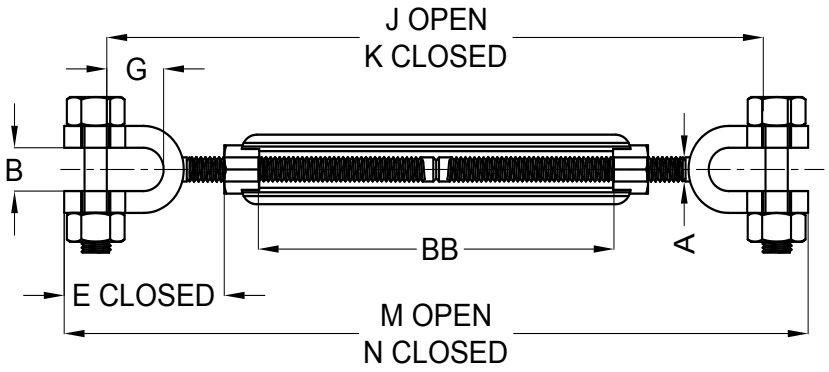
| Size | Weight per piece | Dimensions (in) | | | | Part No. |
|---|---|---|---|---|---|---|
| | | A | B | C | D | |
| 1/8 | 0.01 | 0.12 | 0.37 | 0.71 | 0.03 | SRDT18 |
| 3/16 | 0.02 | 0.19 | 0.44 | 0.80 | 0.04 | SRDT316 |
| 1/4 | 0.02 | 0.25 | 0.69 | 0.95 | 0.05 | SRDT14 |
| 5/16 | 0.04 | 0.34 | 0.78 | 1.40 | 0.06 | SRDT516 |
| 3/8 | 0.06 | 0.42 | 0.94 | 1.70 | 0.06 | SRDT38 |
| 1/2 | 0.14 | 0.50 | 1.14 | 2.80 | 0.09 | SRDT12 |
| 5/8 | 0.17 | 0.68 | 1.45 | 2.37 | 0.07 | SRDT58 |




# Eye and Eye Turnbuckle

## Type 316 Stainless Steel

| Thread Dia & Take Up (in) | Working Load Limit (lbs) | Working Piece (lbs) | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | J Open | K Closed | M Open | N Closed | R | S | X | BB Closed | |
| 174 x 4 | 500 | 0.30 | 0.25 | 11.80 | 780 | 12.25 | 8.25 | 0.78 | 0.34 | 1.75 | 4.00 | SSF14X4EE |
| 5/16 x 4-1/2 | 800 | 0.47 | 0.1 | 13.56 | 9.06 | 14.12 | 9.62 | 0.94 | 0.44 | 2.09 | 4.50 | SSF516X412EE |
| 1/2 x 6 | 2,200 | 1.60 | 0.50 | 19.08 | 13.08 | 19.96 | 13.96 | 1.44 | 0.72 | 3.23 | 6.03 | SSF12X6EE |
| 5/8 x 6 | 3,500 | 2.75 | 0.63 | 20.68 | 14.68 | 21.68 | 15.68 | 1.75 | 0.88 | 3.90 | 6.03 | SSF58X6EE |
| 3/4 x 6 | 5,200 | 3.89 | 0.75 | 22.38 | 16.38 | 23.62 | 17.62 | 2.09 | 1.00 | 4.69 | 6.13 | SSF34X6EE |
| 1x6 | 10,000 | 9.33 | 1.00 | 25.97 | 19.97 | 27.72 | 21.72 | 3.00 | 1.44 | 6.36 | 6.18 | SSF1X6EE |
| 1-1/4 x 12 | 15,200 | 19.00 | 1.25 | 40.31 | 28.31 | 42.56 | 30.56 | 3.56 | 1.81 | 7.72 | 12.06 | SSF114X12EE |

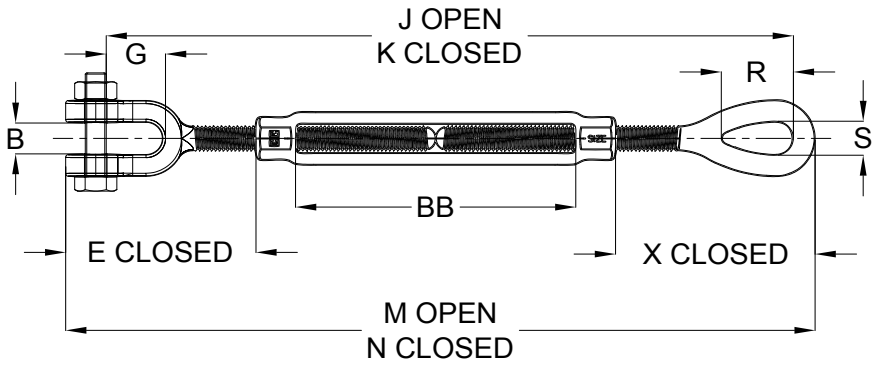





# Jaw and Jaw Turnbuckle

## Type 316 Stainless Steel

| Thread Dia & Take Up (in) | Working Load Limit (LBS) | Weight Per Piece in LBS | Dimensions (in) | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | J Open | K Closed | M Open | N Closed | R | S | X Closed | BB | |
| 1/4 x 4 | 500 | 0.36 | 0.25 | 0.45 | 1.58 | 0.62 | 10.90 | 6.90 | 11.90 | 7.90 | 4.0 | SSF14X4JJ |
| 5/16 x 4 | 800 | 0.50 | 0.31 | 0.50 | 1.98 | 0.87 | 12.36 | 8.36 | 13.90 | 9.40 | 4.50 | SSF516X4JJ |
| 3/8 x 6 | 1,200 | 0.81 | 0.38 | 0.54 | 2.12 | 0.87 | 16.14 | 10.14 | 17.38 | 11.38 | 6.00 | SSF38X6JJ |
| 1/2 x 6 | 2,200 | 1.50 | 0.50 | 0.68 | 2.75 | 1.06 | 17.50 | 11.50 | 19.00 | 13.00 | 6.00 | SSF12X6JJ |
| 5/8 x 6 | 3,500 | 2.72 | 0.63 | 0.82 | 3.50 | 1.31 | 12.80 | 12.80 | 20.88 | 14.88 | 6.00 | SSF58X6JJ |




# Jaw and Eye Turnbuckle

## Stainless Steel Type 316

| Thread Dia & Take Up (in) | Working Load Limit (LBS) | Weight Per Piece in LBS | Dimensions (in) | | | | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | E Closed | G | J Open | K Closed | M Open | N Closed | R | S | X Closed | BB | |
| 1/4 x 4 | 500 | 0.32 | 0.25 | 0.45 | 1.58 | 0.62 | 11.35 | 7.35 | 12.07 | 8.07 | 0.78 | 0.34 | 1.75 | 4.00 | SSF14X4JE |
| 5/16 x 4 | 800 | 0.47 | 0.31 | 0.50 | 1.98 | 0.87 | 8.71 | 14.01 | 9.51 | 0.94 | 0.44 | 2.09 | 0.44 | 2.09 | SSF516X412JE |
| 3/8 x 6 | 1,200 | 0.76 | 0.38 | 0.54 | 2.12 | 0.87 | 16.81 | 10.81 | 17.77 | 11.77 | 1.12 | 0.53 | 2.52 | 6.00 | SSF38X6JE |
| 1/2 x 6 | 2,200 | 1.53 | 0.50 | 0.68 | 2.75 | 1.06 | 18.29 | 12.29 | 19.48 | 13.48 | 1.44 | 0.72 | 3.23 | 6.00 | SSF12X6JE |
| 5/8 x 6 | 3,500 | 2.35 | 0.63 | 0.82 | 3.50 | 1.31 | 19.74 | 13.74 | 21.28 | 15.28 | 1.75 | 0.88 | 3.90 | 6.00 | SSF58X6JE |
| 3/4 x x6 | 5,200 | 4.00 | 0.75 | 1.03 | 4.18 | 1.50 | 27.19 | 18.19 | 29.11 | 20.11 | 2.09 | 1.00 | 4.69 | 9.00 | SSF34X6JE |
| 1 x 6 | 10,000 | 8.92 | 1.00 | 1.31 | 5.53 | 2.06 | 24.34 | 18.34 | 26.89 | 20.89 | 3.00 | 1.44 | 6.36 | 6.00 | SSF1X6JE |
| 1 x12 | 10,000 | 11.20 | 1.00 | 1.31 | 5.53 | 2.06 | 36.34 | 26.34 | 38.89 | 26.89 | 3.00 | 1.44 | 6.36 | 12.00 | SSF1X12JE |
| 1-1/4 x 12 | 15,000 | 20.00 | 1.25 | 1.86 | 7.21 | 2.81 | 38.82 | 26.82 | 42.05 | 30.05 | 3.56 | 1.81 | 7.72 | 18.00 | SSF114X12JE |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# Tie Down

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## Twin J Hook
### Yellow Chromate

| Webbing Size | Style | Weight per Piece (LBS) | Working Load Limit (LBS) | Part No. |
|---|---|---|---|---|
| 1 | Twin J | 0.11 | 3,000 | YC1TJH3 |
| 2 | Twin J | 0.15 | 5,000 | YC2TJH5 |
| 2 | Twin J | 0.20 | 11,000 | YC2TJH10S |
| 3 | Twin J | 2.00 | 22,000 | YC3TJH22 |

## Flat Hook
### Yellow Chromate

| Webbing Size | Style | Weight per Piece (LBS) | Working Load Limit (LBS) | Part No. |
|---|---|---|---|---|
| 2 | Flat | 0.40 | 5,000 | YC2FH5 |
| 2 | Flat w/ Protector | 0.75 | 10,000 | YC2FH10P |
| 4 | Flat w/ Protector | 1.26 | 15,000 | YC4FH15P |

## Flat Snap Hook
### Yellow Chromate

| Webbing Size | Style | Weight per Piece (LBS) | Working Load Limit (LBS) | Part No. |
|---|---|---|---|---|
| 2 | Flat Snap | 0.75 | 11,000 | YC2SH11 |

## S Type Hook
### Yellow Chromate

| Webbing Size | Style | Weight per Piece (LBS) | Working Load Limit (LBS) | Part No. |
|---|---|---|---|---|
| 1 | S-Type | 0.40 | 3,000 | YC1SWH3 |

# Ratchet Buckles

## Yellow Chromate

| Size | Description | Weight per Piece (LBS) | Working Load Limit (LBS) | Part No. |
|---|---|---|---|---|
| 1″ | Long & Wide Steel Round Handle | 1.40 | 3,300 | YC1RB3 |
| 2″ | Long & Wide Steel Round Handle | 1.45 | 10,000 | YC2RB10LW |
| 2″ | Standard & Short Steel Round Handle | 2.30 | 10,000 | YC2RB10SS |
| 2″ | Short & Wide Steel Round Handle | 2.40 | 10,000 | YC2RB10WS |
| 3″ | Long & Wide Steel Round Handle | 7.20 | 22,000 | YC3RBS33 |
| 4″ | Long & Wide Steel Round Handle | 8.10 | 24,000 | YC4RB25 |

## Ratchet Strap Assembly

### Long & Wide Steel Handle Ratchet with Hooks on both ends

| Webbing Diameter | Webbing Length | Break Strength in LBS | Ends | Weight per Assembly in LBS | Part No. |
|---|---|---|---|---|---|
| 2″ | 27′ | 10,000 | J- Hooks | 6.38 | RA2X27JHDRL |
| 2″ | 27′ | 10,000 | Flat Hook | 6.60 | RA2X27FHDRL |
| 4″ | 30′ | 20,000 | Flat Hook | 15.32 | RA4X30FH |

## Tie Down Webbing

### Yellow Polyester

| Webbing Diameter | Webbing Length | Breaking Strength (LBS) | Weight per Roll in LBS | Part No. |
|---|---|---|---|---|
| 2" | 300′ | 12,000 | 19 | 2X300/12000 |
| 4" | 300′ | 20,000 | 32 | 4X300/20000 |

## Grade 43 High Test Binding/Boomer Chains
### With Clevis Grab Hooks on Each End

| Chain Diameter | Chain Length | Finish | Weight per Piece in LBS | Part No. |
|---|---|---|---|---|
| 5/16 | 20′ | Self-Colored | 20.00 | 516SC43BC20 |
| 3/8 | 20′ | Self-Colored | 31.00 | 38SC43BC20 |
| 1/2 | 20′ | Self-Colored | 57.00 | 12SC43BC20 |

## Grade 70 Transport Binding/Boomer Chains
### With Clevis Grab Hooks on Each End

| Chain Diameter | Chain Length | Finish | Weight per Piece in LBS | Part No. |
|---|---|---|---|---|
| 5/16 | 20′ | Yellow Chromate | 20.00 | 516SCG70BC20 |
| 3/8 | 20′ | Yellow Chromate | 31.00 | 38SCG70BC20 |
| 1/2 | 20′ | Yellow Chromate | 57.00 | 12SCG70BC20 |

## Ratchet Load Binders
### Forged Steel & Heat Treated

| Size | Description | Weight per Piece (LBS) | Working Load Limit (LBS) | Part No. |
|---|---|---|---|---|
| 5/16-3/8 | Ratchet Load Binder | 11.25 | 6,600 | RL516 |
| 3/8-1/2 | Ratchet Load Binder | 13.25 | 9,200 | RL38 |
| 1/2-5/8 | Ratchet Load Binder | 19.20 | 13,000 | RL12 |

## Lever Load Binders
### Forged Steel & Heat Treated

| Size | Description | Weight per Piece (LBS) | Working Load Limit (LBS) | Part No. |
|---|---|---|---|---|
| 1/4 | Lever Load Binder | 3.50 | 2,600 | LL14 |
| 5/16-3/8 | Lever Load Binder | 11.00 | 5,400 | LL516 |
| 3/8 | Lever Load Binder | 13.70 | 9,200 | LL38 |


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# Miscellaneous


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| Product Description | Size | Catalog # | Weight |
|---|---|---|---|
| SAF-T-LIFT Personnel Basket | 3'x3'x88" | PB3X3 | 460 |
| SAF-T-LIFT Personnel Basket | 4'x4'x88" | PB4x4 | 560 |
| SAF-T-LIFT Personnel Basket | 4'x6'x88" | PB4x6 | 790 |
| SAF-T-LIFT Personnel Basket | 4'x8'x88" | PB4x8 | 990 |
| Personnel Basket Crane Rigging Kit | Rigging Kit | RIG 2 | 20 |
| Test Weight form 125% of capacity | - | TST1250 | 100 |

| Product Description | Size | Catalog # | Weight |
|---|---|---|---|
| Forklift Basket | 4'x4'x75" | FB4x4 | 450 |
| Tool Tray | 8" x 35" x 6.5" | TTBA | 20 |
| Light Bulb Utility Caddy | 30.5"x 6" x 36" | LBUC | 60 |

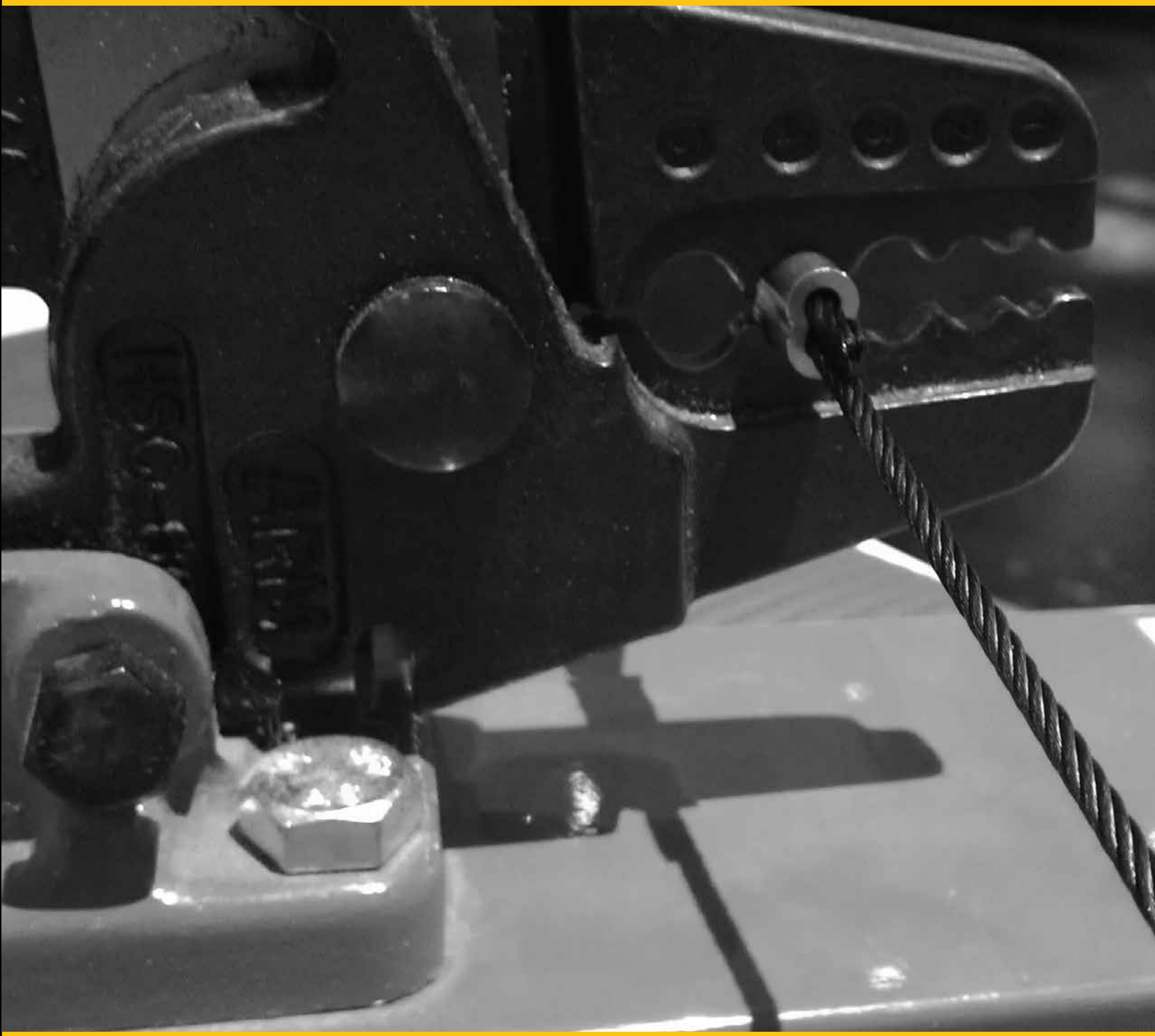
| Product Description | Size | Catalog # | Weight |
|---|---|---|---|
| Material Bins Slanted Sides | 4' x 4' x 3' | DB4x4x3 (2.22 yds) | 610 |
| Material Bins Slanted Sides | 4' x 4' x 4' | DB4x4x4 (2.96 yds) | 820 |
| Material Bins Slanted Sides | 4' x 7' x 3' | DB4x7x3 (3.56 yds) | 1070 |

| Product Description | Size | Catalog # | Weight |
|---|---|---|---|
| Material Bins Straight Sides | 4' x 4' x 3' | MB4x4x3 | 570 |
| Material Bins Straight Sides | 4' x 4' x 4' | MB4x4x4 | 670 |
| Material Bins Straight Sides | 4' x 8' x 3' | MB4x8x3 (3.56 yds) | 1140 |
| Material Bins Straight Sides | 4' x 8' x 4' | MB4x8x4 (4.74 yds) | 1340 |

| Product Description | Size | Catalog # | Weight |
|---|---|---|---|
| Heavy Duty Skip Pans 2.58 cu.yd | 48"w x 96"Length 32 Deep | SP-6000 | 1200 |
| Heavy Duty Skip Pans 3.91 cu.yd | 48"w x 96"Length 32 Deep | SP- 8000 | 1500 |
| Heavy Duty Skip Pans 3.91 cu.yd | 48"w x 96"Length 32 Deep | SP- 12000 | 1600 |

| Product Description | Size | Catalog # | Weight |
|---|---|---|---|
| Heavy Duty Skip Pans 2.58 cu.yd | 48"w x 96"Length 32 Deep | SP-6000 | 1200 |
| Heavy Duty Skip Pans 3.91 cu.yd | 48"w x 96"Length 32 Deep | SP- 8000 | 1500 |
| Heavy Duty Skip Pans 3.91 cu.yd | 48"w x 96"Length 32 Deep | SP- 12000 | 1600 |

# Tools



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## Cable Cutting Tools

| Cuts Cable Sizes | Capcity in inches | Weight Per Piece in LBS | Part No. |
|---|---|---|---|
| 1/16 – 3/16 | 1/16 – 3/16 | 0.50 | CUTTER116 |
| 1/16 – 3/8 | 1/16 – 3/8 | 3.00 | CUTTER116-38 |

## Hand Swaging Tools

| Swages Cable Sizes | Size | Weight Per Piece in LBS | Part No. |
|---|---|---|---|
| 5/32, 1/4 & 5/16 | 30" | 2.00 | HST532-516 |
| 3/8 | 36" | 3.00 | HST38 |
| 1/16, 3/32, 1/8, 5/32 & 3/16 | 36" | 14.00 | BMST |
| 1/16, 3/32, 1/8, 5/32 & 3/16 | 24" | 15.00 | HST116-316 |

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