

MARINE HARDWARE

Fittings, Hardware & Accessories Catalog



C. Sherman Johnson Co., Inc.
Johnson
Marine Hardware



CSJOHNSON.COM

Welcome!

C. Sherman Johnson Company Inc. was founded in 1958 by Curtiss S. Johnson Jr. (1925-2005). Curt's love of sailing inspired him to design and manufacture stainless steel turnbuckles, fittings and marine accessories for the pleasure marine market.

Many patents and innovative designs, such as the Handy Lock Turnbuckle, Hand Crimp Life Line Fittings and the Over Center Pelican Hook led Johnson Marine (Trade Name) to become one of the largest OEM suppliers of life line hardware in the marine and architectural industries.

Curt's sons Burt and Curt Johnson continue the tradition of innovation today, with the 3rd generation, Sam and Max, well involved in daily activities.



Curtiss S. Johnson Jr. (1925-2005)

From all of us at JOHNSON... Thank you for your past, present and future business! We look forward to continuing to serve you.



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Product Index

Use this Product Index to find what you need in our catalog. Remember we offer over 1000 products and parts, so if you can't find it...call us!

Can't find it? Call us!

If you need help, contact us at:

1-860-873-8697

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Assuring onboard safety has always been of primary concern at Johnson Marine. We offer a complete line of life line fittings...turnbuckles, pelican hooks, gate eyes, toggle jaws, stanchion terminals, life line studs and much more.

Splice Line Fittings

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Machine Swage

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SPLICE LINE
MACHINE SWAGE
HAND CRMIMP

RIGGING HARDWARE

ACCESSORIES

INDUSTRIAL FITTINGS

At Johnson Marine we understand what is needed to rig dinghies up through large cruisers. Johnson offers a full line of studs, toggles, backstay/inner forestay turnbuckles, plates, pins and rings. Everything you need to rig and tune your boat safely.

Rigging Hardware

PAGES 31-55

Johnson Marine's dynamic new packaging makes it easy for dealers to display the complete accessory line. Molded clear pack allows customer to visualize their purchase. Instructions are clearly and graphically displayed. Johnson offers many unique accessories to mount on rails, spars and decks.

Accessories

PAGES 56-64

Johnson stainless steel turnbuckles and fittings have long been used in non-marine applications. Our latest offerings in eye, hook and jaw configurations are used where quality and esthetics are required. Quality 316 stainless is used throughout.

Industrial Fittings

PAGES 65-68



JOHNSON MARINE

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Splice Lines

"No Wire" Splice Line Life Line Fittings



Johnson Marine's Splice Line fittings allow you to easily splice hi tech Dyneema™ line to standard life line fittings. Our new Splice Line Fitting is available in Type 316 Stainless or hard-anodized 6061-T6 Aluminum. They are designed to be light weight and easy on the line. Dyneema/Spectra is a great product for the cruising sailor who wants to replace their stainless steel life line cables.

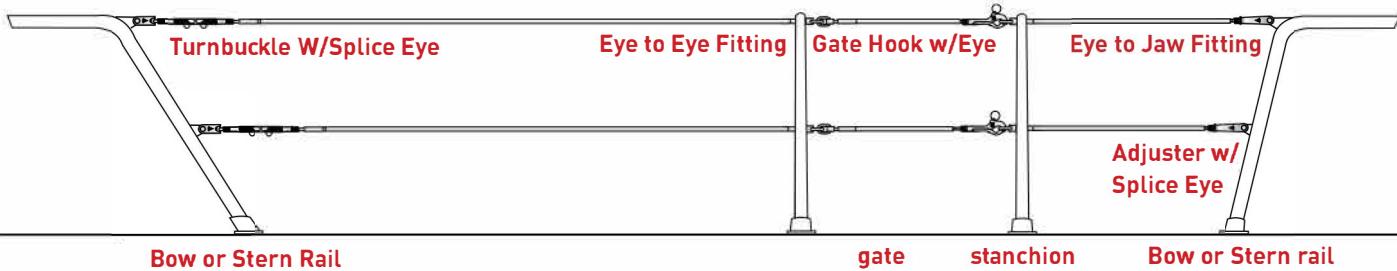
Johnson recommends and sells 1/4" (6mm) Dyneema™ line* in grey and white. This line is a 12 strand single braid, 1/7th the weight of 1/4" 1x19 cable, offering the same strength at about the same cost.

Johnson recommends changing out the line at 4 year intervals.

**PROFESSIONAL SPLICING RECOMMENDED -
DYNEEMA LINE NOT INCLUDED.**



TYPICAL SPICE LINE LIFE LINE SETUP



**Not just for boats
Good for on land too!**



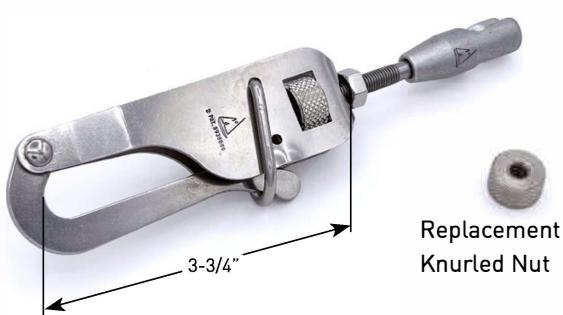
Private Residence – Morehead City, NC
Dyneema Rail Fabricator: Crystal Coast Cordage Inc.
– Morehead City, NC



Mini Snap Gate Hook - "Over Center"

Our new Mini Snap Gate Hook features our same "Over-Center" design as our larger snap gate hook. This feature allows easy opening and closing with no load on the swinging hook when closed. Ideal for lower life lines and powerboats. 2-3/4" grip length, 3" overall. Investment Cast T-316 Stainless.

LS-3170	Mini Gate Hook w/Splice Eye
LS-2170	Mini Gate Hook w/Gate Eye
21-750	Repair Kit for lost or worn latching mechanisms



"Over Center" Snap Gate Hook

This is our latest and best design yet. Features the "over center" design with no load on the swinging hook when closed. This feature allows easy opening yet stays secure with a heavy split ring on the plunger latching device. Investment Cast T-316 Stainless.

LS-3100	Over Center Gate Hook w/Splice Eye
LS-2100	Over Center Gate Hook w/Gate Eye

Snap Gate Hook - Body Only *

For those who wish to replace their existing hooks - just match up the thread size. 3-1/2" long from end of body to inside bearing point of hook.

21-80	5/16"-24 L.H.
21-80-1	5/16"-24 R.H.
21-81	1/4"-28 L.H.
21-88	8mm x 1.25 R.H.

* Body Investment Cast in China

Snap Gate Hook Repair Kit

21-850	Repair Kit for lost or worn latching mechanisms
R-4	Ring Only



Safe Lock Gate Hook T-316

Stainless, safe, inexpensive design *Practical Sailor* called a "well engineered hunk of metal". Adjusts in place with knurled nut, stamped metal construction - 3-3/4" long from end of body to inside bearing point of hook.

LS-2430	Safe Lock Gate Hook w/Splice Eye
35-622	Replacement Knurled Nut

Tubular Turnbuckle**Jaw to Eye**

Our most popular life line turnbuckle. Check nut locking.

CAT NO.	DESCRIPTION
LS-2900	Tubular Turnbuckle w/Splice Eye
LS-1900	Tubular Turnbuckle w/Gate Eye

**Open Body Turnbuckle****Jaw to Eye**

Classic, traditional design. Forged silicon bronze body.

CAT NO.	DESCRIPTION
LS-5200	Open Body Turnbuckle w/Splice Eye
LS-4200	Open Body Turnbuckle w/Gate Eye

**X-Tra Length Splice Line Turnbuckle**

This fitting offers a full 7 inches of adjustment for racing or cruising sailors, or anyone else who wants to adjust their lifelines tight or slack with a simple twist of the cushioned grip smooth body turnbuckle.

CAT NO.	DESCRIPTION
LS-92-150	X-Tra Length Tubular Turnbuckle w/Splice Eye
LS-90-150	X-Tra Length Tubular Turnbuckle w/Gate Eye



For Stainless fitting, add -316SS to Cat. No.

Deck Toggle to Eye Turnbuckle

This fitting allows the turnbuckle to be bolted to a deck or bulkhead with its Deck Toggle and the opposite end connects the Eye.



Eye to Jaw Fitting

This fitting will convert a small bail at the stern rail to our standard gate eye to accept our Over Center Gate Hook or Splice Eye for Dyneema lines.

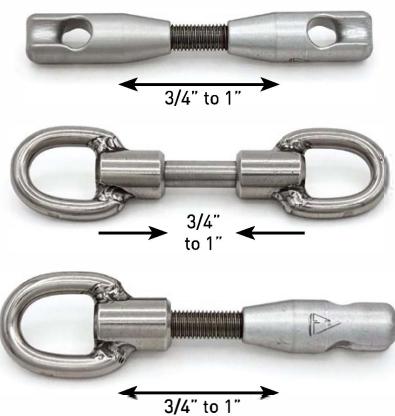
CAT NO.	DESCRIPTION
LS-3600	Toggle Jaw w/Splice Eye
LS-2500	Eye to Jaw



Eye-to-Eye Fitting

This fitting can be used wherever an eye is required on each side of the stanchion.

CAT NO.	DESCRIPTION
LS-3200*	Splice Eye to Splice Eye Fitting
LS-2200*	Adjustable between 3/4" and 1"
LS-3300*	Gate Eye to Splice Eye Fitting



CAT NO.

DESCRIPTION

LS-2900-1T

Deck to Splice Eye Tubular Turnbuckle

Eye to Deck Toggle Fitting

This fitting can be mounted to any flat surface and accept life line fittings, line, etc. Toggling action is 140 degrees.

CAT NO.	DESCRIPTION
LS-3650	Deck Terminal w/Splice Eye
LS-2550	Eye to Deck Toggle



Adjuster

Generally used at the stern rail in conjunction with the single gate eye to tension that section of the gate.

CAT NO.	DESCRIPTION
LS-3400	Adjuster w/Splice Eye
LS-2400	Adjuster w/Gate Eye



For Stainless fitting, add -316SS to Cat. No.

Eye to Stud with Button

These fittings can be used wherever a single eye is needed on one side of a stanchion.

CAT NO.	DESCRIPTION
20-64-10FS*	Button to Splice Eye Fitting
22-303-10FS*	Button to Gate Eye



Type 6061-T6 Aluminum

CAT NO.	DESCRIPTION
Splice Eye w/Threaded Stud only: Includes cross-hole for cotter pin	
20-61	1/4"-28 x 2-1/2" LH w/Splice Eye
22-62	1/4"-28 x 2-1/2" RH w/Splice Eye
20-63	5/16"-24 x 2-1/2" LH w/Splice Eye
20-64	5/16"-28 x 2-1/2" RH w/Splice Eye



Splice Line Kits



CAT NO.	CONTENTS INCLUDED
SLK-30	Small Boat Kit (to 30') 2 LS-3600 2 LS-2900 70' Grey 1/4" (6mm) Dyneema™ Splicing & Install Instructions Fid/Needle/Twine
SLK-40	Large Boat Kit (to 40') 2 LS-3600 2 LS-2900 90' Grey 1/4" (6mm) Dyneema™ Splicing & Install Instructions Fid/Needle/Twine

These kits include everything needed to install upper Dyneema™ life lines w/o gates. For double life lines, buy 2 kits. For adding a gate, use our gate kits:

CAT NO.	CONTENTS INCLUDED
SLK-GKM	Gate Kit - Midship (1 side) 1 LS-3100 1 LS-3200 1 LS-3400 6' Dyneema™
SLK-GKA	Gate Kit - Aft (1 side) 1 LS-3100 1 LS-3300 6' Dyneema™



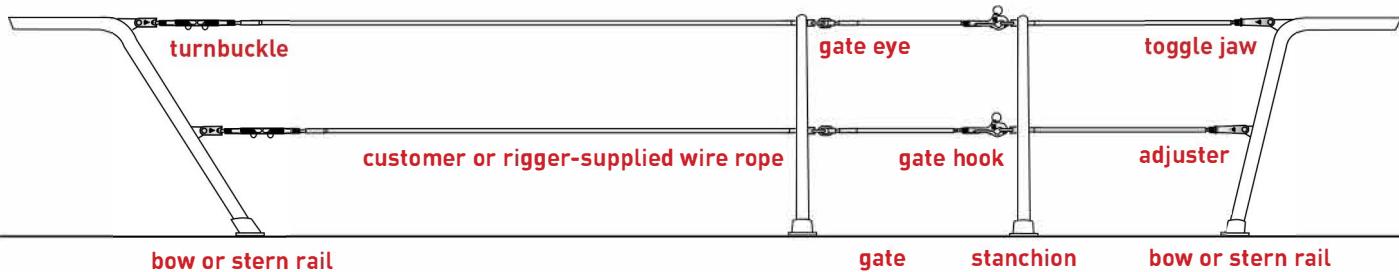
Machine Swage Life Line Fittings

Not for lifting, hanging or other high load applications. See page 31 for Rigging Hardware.

Johnson Machine Swage Life Line Fittings are the ultimate in strength, durability and aesthetics, giving you complete peace of mind. Only a qualified, professional rigger can perform machine swaging. Life lines are generally swaged by way of a rotating set of cold forming dies or a hydraulic press with a minimum 60 tons of pressure. Our life line fittings match the strength of 7x7 coated or uncoated cable. 1x19 uncoated cable may also be used to meet the latest offshore rules. Either way, a life line system is like a big spring; the rails and stanchions will collapse well before the fittings or cable will fail. Be sure to specify JOHNSON, the world leader in innovation, design and quality for your next life line replacement.



TYPICAL SAILBOAT LIFE LINE SETUP



Pelican Hooks

ALL TYPE 316 STAINLESS



Mini Snap Gate Hook - "Over Center"

Our new Mini Snap Gate Hook features our same "Over-Center" design as our larger snap gate hook. This feature allows easy opening and closing with no load on the swinging hook when closed. Ideal for lower life lines and powerboats. 2-3/4" grip length, 3" overall. Investment Cast T-316 Stainless.

21-784	1/8" wire	1/4"-28 L.H.	1" adj.
21-785	5/32" wire	1/4"-28 L.H.	1" adj.
21-786	3/16" wire	1/4"-28 L.H.	1" adj.
21-71	Body Only	1/4"-28 L.H.	1" adj.
21-750 Repair Kit for lost or worn latching mechanisms			



Tubular Gate Hook

Inexpensive, slender tubular design with a stamped hook. 4-3/4" long from end of body to inside bearing point of hook.

21-304	1/8" wire	1/4"-28 L.H.	1-1/2" adj.
21-305	5/32" wire	1/4"-28 L.H.	1-1/2" adj.
21-306	3/16" wire	1/4"-28 L.H.	1-1/2" adj.

"Over Center" Snap Gate Hook

This is our latest and best design yet. Features the "over center" design with no load on the swinging hook when closed. This feature allows easy opening yet stays secure with a heavy split ring on the plunger latching device. Investment Cast T-316 Stainless.

21-884	1/8" wire	1/4"-28 L.H.	1-1/4" adj.
21-885	5/32" wire	5/16"-24 L.H.	1-1/4" adj.
21-886	3/16" wire	5/16"-24 L.H.	1-1/4" adj.
21-888-7	1/4" wire	5/16"-24 L.H.	1-1/4" adj.

[21-888-7 uses 7/32" swage]

Snap Gate Hook - Body Only *

For those who wish to replace their existing hooks - just match up the thread size. 3-1/2" long from end of body to inside bearing point of hook.

21-80	5/16"-24 L.H.
21-80-1	5/16"-24 R.H.
21-81	1/4"-28 L.H.
21-88	8mm x 1.25 R.H.

* Body Investment Cast in China

Snap Gate Hook Repair Kit

21-850	Repair Kit for lost or worn latching mechanisms
R-4	Ring Only



Safe Lock Gate Hook

Stainless, safe, inexpensive design *Practical Sailor* called a "well engineered hunk of metal". Adjusts in place with knurled nut, stamped metal construction - 3-3/4" long from end of body to inside bearing point of hook.

23-301	1/8" wire	1/4"-28 L.H.	1-1/4" adj.
24-304	5/32" wire	1/4"-28 L.H.	1-1/4" adj.
24-301	3/16" wire	1/4"-28 L.H.	1-1/4" adj.
35-622 Replacement Knurled Nut			



Open Body Turnbuckle

BRONZE BODY / 316 STAINLESS

Jaw to Swage

Classic, traditional design. Forged silicon bronze body with T-316 stainless ends.

42-314	Chrome	1/8" wire 1/4" pin	3" adj
42-315	Chrome	5/32" wire 1/4" pin	3" adj
42-316	Chrome	3/16" wire 1/4" pin	3" adj
43-318-7	Chrome	1/4" wire 5/16" pin	3" adj
44-318	Chrome	1/4" wire 3/8" pin	3" adj

[43-318-7 uses 7/32" swage]

**Tubular Turnbuckle**

ALL TYPE 316 STAINLESS

Jaw to Swage - Check Nut Locking

Our most popular life line turnbuckle. Check nut locking.

19-314-2	1/8" wire	3/16" pin	2-1/2" adj
19-314*	1/8" wire	1/4" pin	3" adj
19-315*	5/32" wire	1/4" pin	3" adj
19-316*	3/16" wire	1/4" pin	3" adj
19-308	1/4" wire	3/8" pin	4-1/4" adj
19-318-7	1/4" wire	5/16" pin	3-3/4" adj

[19-318-7 uses 7/32" die] *add "S" for Shortie version.

**Tubular Turnbuckle**

ALL TYPE 316 STAINLESS

Eye to Swage - Check Nut Locking

Used where an eye is required for attachment instead of a jaw. Check nut locking.

20-304*	1/8" wire	3" adj
20-305*	5/32" wire	3" adj
20-306*	3/16" wire	3" adj
20-308	1/4" wire	4-1/4" adj
20-308-7	1/4" wire	4" adj

[20-308-7 uses 7/32" swage] * add "S" for Shortie version.

**Tubular Slotted Turnbuckle**

ALL TYPE 316 STAINLESS

Jaw to Swage - Positive Locking Rings

Unique design features a slot with wraparound rings which fit through a cross-hole in terminal for secure locking.



36-602/605

19-324	1/8" wire	1/4" pin	2-7/8" adj
19-325	5/32" wire	1/4" pin	2-7/8" adj
19-326	3/16" wire	1/4" pin	2-7/8" adj
36-605	Locking Ring for above		
19-328	1/4" wire	3/8" pin	3-1/4" adj
36-602	Locking Ring for above		



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Smooth Line Turnbuckle

ALL TYPE 316 STAINLESS

Closed Thread

Very popular architectural turnbuckle also great for life lines. No exposed threads. Cable termination is hidden inside of body and rotates on threaded cap. For details see page 5 of ARCHITECTURAL section.



Swage Sleeve

**Smooth Line Replacement Parts**

60-610	Nose Cone - 1/8"	60-613	Swage Sleeve - 1/8"
60-610-1	Nose Cone - 5/32"	60-620	Swage Sleeve - 5/32"
60-611	Nose Cone - 3/16"	60-612	Swage Sleeve - 3/16"
60-611-1	Nose Cone - 1/4"	60-612-1	Swage Sleeve - 1/4"

Adjuster Turnbuckle

BRONZE / 316 STAINLESS

Jaw to Swage

Stamped, strap design turnbuckle with Knurled nut for adjustment.



23-302	1/8" wire	3/16" pin	2" adj.
35-623	Replacement Knurled Nut for above		
24-302	3/16" wire	1/4" pin	2-3/4" adj
35-624	Replacement Knurled Nut for above		

Deck Toggle Turnbuckle

ALL TYPE 316 STAINLESS

Deck to Swage

This "T" bolt style fitting is used on decks or bulkheads. Toggle nut style also available to match old style.



Not for lifting, hanging or other high load applications.
See page 31 for Rigging Hardware.

19-314-1T*	1/8" wire	1/4"-28	3" adj.
19-315-1T*	5/32" wire	1/4"-28	3" adj
19-316-1T*	3/16" wire	1/4"-28	3" adj
19-318-1T*	1/4" wire	5/16"-24	3" adj

[19-318-1T uses 7/32" swage]

*add "S" for Shortie version.

Turnbuckle replacement parts on pages 14-16.

Techno•TIP

Some of the most neglected parts on a sailboat are the Life Line and Rigging Turnbuckles. Turnbuckles need to be kept free of dirt and salt by rinsing with fresh water periodically. A good marine lubricant like Johnson Sealube or equivalent should be applied to the threads. The lubricant will provide corrosion protection and keep the turnbuckles turning freely. Never straighten a bent threaded stud, always replace it. A bent stud is considerably weakened.



Single Gate Eye - Swivel

A single eye is used on one end of the gate area to attach the gate hook.

22-311	1/8" wire
22-317	5/32" wire
22-313	3/16" wire

Do not swage with Wire Teknik Machine



Interlocking Gate Eye - Swivel

An interlocking gate eye is used at the opposite end of the gate hook as a "hinge" for the gate.

22-312	1/8" wire
22-318	5/32" wire
22-314	3/16" wire

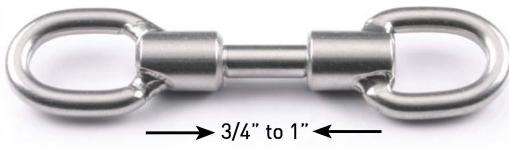
Do not swage with Wire Teknik Machine



Eye-to-Eye Fitting

This fitting can be used wherever an eye is required on each side of the stanchion.

22-100	Adjustable between 3/4" and 1"
--------	--------------------------------



→ 3/4" to 1" ←

Deck Toggle - Old Style

This fitting can be used wherever a cable needs to be terminated to a deck or bulkhead.

25-304-1	1/8" wire "old style"
25-305-1	5/32" wire "old style"
25-306-1	3/16" wire "old style"



Single Gate Eye - Threaded

Same as above only terminal is threaded into eye nut.

22-301	1/8" wire
22-307	5/32" wire
22-303	3/16" wire
22-305-7	1/4" wire 7/32" swage
22-305	1/4" wire



Interlocking Gate Eye - Threaded

Same as above only terminal is threaded into eye nut.

22-302	1/8" wire
22-308	5/32" wire
22-304	3/16" wire
22-306-7	1/4" wire 7/32" swage
22-306	1/4" wire



Eye-to-Interlocking Gate Eye Fitting

This fitting can be used wherever an eye is required on one side, and an interlocking eye on the other side of a stanchion.

22-304-100*	Adjustable between 3/4" and 1"
-------------	--------------------------------

* Add -L for 1-1/4"



Deck Toggle - 'T' Style

Same Deck Toggle only "T" bolt construction.

25-314-1T	1/8" wire "T-style"
25-315-1T	5/32" wire "T-style"
25-316-1T	3/16" wire "T-style"
25-318-1T	1/4" wire "T-style" 7/32" swage



Adjuster-Short

Generally used at the stern rail in conjunction with the single gate eye to tension that section of the gate.

23-303	1/8" wire 1/4" pin	1" adj
24-305	5/32" wire 1/4" pin	1" adj
35-620	Knurled Nut for 1/8", 5/32" size	
24-303	3/16" wire 1/4" pin	1" adj
35-621	Knurled Nut for 3/16", 1/4" size	
24-308-7	1/4" wire 1/4" pin	1" adj

**Toggle Jaw, Old Style**

Same as above only uses toggle nut style instead of "T" bolt style.

25-304	1/8" wire 1/4" pin
25-305	5/32" wire 1/4" pin
25-306	3/16" wire 1/4" pin
25-308	1/4" wire 3/8" pin
25-308-7	1/4" wire 5/16" pin 7/32" swage

**Eye to Deck Toggle Fitting**

This fitting can be mounted to any flat surface and accept life line fittings, line, etc. Toggling action is 140 degrees.

Eye to Deck Toggle	Cat No. LS-2550
--------------------	-----------------



Not for lifting, hanging or other high load applications. See page 31 for Rigging Hardware.

Toggle Jaw, "T" Style

Generally used at the stern rail when no gate is required with a turnbuckle forward.

25-314	1/8" wire 1/4" pin
25-315	5/32" wire 1/4" pin
25-316	3/16" wire 1/4" pin
25-318-7	1/4" wire 5/16" pin 7/31" swage

Do not swage with Wire Teknik Machine

**Eye to Jaw Fitting**

This fitting will convert a small bail at the stern rail to our standard gate eye to accept our Over Center Gate Hook.

Eye to Jaw	Cat. No. LS-2500
------------	------------------

**Gate Eye to Stud with Button**

These fittings can be used wherever a single or double gate eye is needed on one side of a stanchion.

22-304-10FS*	Adjustable between 3/4" and 1"
22-303-10FS*	Adjustable between 3/4" and 1"

* Add -L for 1-1/4"



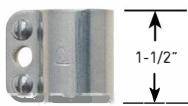
Stanchion Eye

1" Stanchion

This fitting is used on a stanchion for adding lower life lines without the need to drill holes for the cable to pass through. (5/16" hole).

Stanchion Eye

CAT. NO. 29-502



Diamond Pad Eye

1/4" Bail

This pad eye can be used on deck for life lines or other applications. 750 lbs safe working load. See our hinged pad eyes on page 61 and/or 66..

Diamond Pad Eye

CAT. NO. 28-501



Gate Stop

These collars can be used at the gate instead of interlocking eyes, they maintain tension while the gate is open. A setscrew holds them in place.



29-507	1/8" max inside diameter
29-503	3/16" max inside diameter
29-503-1	5/32" max inside diameter
29-504	1/4" max inside diameter
29-505	5/16" max inside diameter
29-506	3/8" max inside diameter

Terminal to Terminal Fitting

Used whenever two pieces of cable need to be joined.

25-316-5-6

Swage to Swage Stud 3/16"



Length 4"

Pulpit Anchor

1" Rail

Can be used on the stern rail and bow pulpit to terminated jaw fittings for lower (or upper) life lines. (1/2" hole). Hole will not accept cast gate hooks.

Pulpit Anchor

CAT. NO. 29-501



Stanchion Terminal

Used where the cable needs to be terminated at the stanchion.

a	25-304-5F	1/8" wire
a	25-305-5F	5/32" wire
a	25-306-5F	3/16" wire
a	25-308-7-5F	1/4" wire (7/32" die)
b	100-110-1	1/8" wire (true 1/8" terminal)



Gate Eye No Stud



* Note - add -12 for RH

22-301-P	1/4-28 L.H.	Single Eye - 1/8" wire
22-303-P	5/16-24 L.H.	Single Eye - 3/16" wire
22-305-P	3/8-24 L.H.	Single Eye - 1/4" wire
22-302-P	1/4-28 L.H.	Intlkg Eye - 1/8" wire
22-304-P	5/16-24 L.H.	Intlkg Eye - 3/16" wire
22-306-P	3/8-24 L.H.	Intlkg Eye - 1/4" wire

Conversion Sleeve - Nickel Brass

Allows the use of 3/16" life line fittings to be used with 1/8" cable. Slide over cable first then into fitting.

36-610 1/8 to 3/16" Machine Swage



Threaded Life Line Terminals for Machine Swaging

Not for lifting, hanging or other high load applications.
See page 31 for Rigging Hardware.



CATALOG NUMBER	THREAD SIZE	WIRE SIZE	CAT # USED ON
30-601	1/4-28 L.H. x 3/8	1/8"	22-301 & 302
30-602	1/4-28 L.H. x 1-1/2	1/8"	23-303 & 21-784
30-602-1	1/4-28 R.H. x 1-1/2	1/8"	Full Thread Terminal Tuners, "S" Series
30-603	1/4-28 L.H. x 2-1/2	1/8"	20-304, 21-304, 19-314 & 21-884
30-603-1	1/4-28 R.H. x 2-1/2	1/8"	GENERAL
! 30-603-1TT	1/4-28 R.H. x 3/8	1/8"	Blind Thread Terminal Tuners
30-604	10-32 R.H. x 3	1/8"	23-302
30-604-1	10-32 L.H. x 1-7/8	1/8"	19-314-2
30-605***	1/4-28 L.H. x 2-1/2	1/8"	23-301, 19-324, 42-314
30-621	1/4-28 L.H. x 2-1/2	5/32"	19-315-2, 325, 21-305, 24-304, 42-315
30-621-1	1/4-28 R.H. x 2-1/2	5/32"	19-315-2, SPECIAL
30-622	1/4-28 L.H. x 3/8	5/32"	22-307 & 22-308
30-623	1/4-28 L.H. x 1-1/2	5/32"	24-305
30-623-1	5/16-24 L.H. x 2	5/32"	21-413, 21-885
30-606*	5/16-24 L.H. x 3/8	3/16"	22-303 & 304
30-607*	5/16-24 L.H. x 2	3/16"	21-886, 24-303
30-607-1*	5/16-24 R.H. x 2	3/16"	GENERAL
30-608*	1/4-28 L.H. x 2-1/2	3/16"	20-306, 21-306, 19-316
30-608-1*	1/4-28 R.H. x 2-1/2	3/16"	SPECIAL "S" Series
30-608S	1/4-28 L.H. x 1-1/2	3/16"	21-786, "S" Series
! 30-608-1TT	1/4-28 R.H. x 3/8	3/16"	Blind Thread Terminal Tuners
30-608-1S	1/4-28 R.H. x 1-1/2	3/16"	Full Thread Terminal Tuners, "S" Series
30-609*	1/4-28 R.H. x 3-3/4	3/16"	GENERAL
30-610***	1/4-28 L.H. x 2-1/2	3/16"	24-301, 19-326, 42-316
30-611	3/8-24 L.H. x 3/8	1/4"	22-305, 306
30-611-7**	5/16-24 L.H. x 3/8	1/4"	22-305/6-7
30-612	3/8-24 L.H. x 1-1/2	1/4"	GENERAL
30-612-2-7*	5/16-24 L.H. x 2	1/4"	21-888-7, 24-308-7
30-613	3/8-24 L.H. x 3	1/4"	GENERAL
30-613-1	3/8-24 R.H. x 3	1/4"	GENERAL
30-613-7**	3/8-24 L.H. x 3	1/4"	GENERAL
30-613-1-7**	3/8-24 R.H. x 3	1/4"	GENERAL
30-615**	5/16-24 L.H. x 2-3/4	1/4"	GENERAL
30-615-1**	5/16-24 R.H. x 2-3/4	1/4"	GENERAL
30-615-1S**	5/16-24 R.H. x 1-1/2	1/4"	Full Thread Terminal Tuners, "S" Series
! 30-615-1TT**	5/16-24 R.H. x 1/2	1/4"	Blind Thread Terminal Tuners
25-304-5	1/4-28 RH x 3/8	1/8"	Special and 25-304-5F/B
25-306-5	1/4-28 RH x 3/8	3/16"	Special and 25-306-5F/B
25-308-7-5**	5/16-24 RH x 1/2	1/4"	Special and 25-308-7-5F/B

* Note - 3/16" terminals may be used for 1/8" wire - Order #36-610 sleeve
** Note - These studs must be swaged using a 7/32" die

*** Note - Cross drilled
! Note - Cannot swage with WireTeknik Swaging Machines.

Replacement Turnbuckle Bodies

TYPE 316 STAINLESS / Silicon Bronze



Use for Life Line or Rigging Applications.

CAT. NO.	THREAD SIZE	OVERALL LENGTH	STYLE
34-601	10-32	3-1/2"	Tubular
34-602	1/4-28	4-1/2"	Tubular
34-602 S	1/4-28	3"	Tubular-Shortie
34-603	5/16-24	5-1/4"	Tubular
34-604	5/16-24	5-1/4"	Tubular-Slotted
34-605	3/8-24	5-1/2"	Tubular
34-606	3/8-24	5-1/2"	Tubular-Slotted
34-607	1/2-20	7"	Tubular-Slotted
34-608	5/8-18	8-1/2"	Tubular-Slotted
34-609	1/4-28	4-1/2"	Tubular-Slotted
34-610	1/4-28	4-1/2"	Open Body
34-611	5/16-24	4-7/8"	Open Body
34-612	3/8-24	5-1/4"	Open Body
34-613	1/2-20	6-1/2"	Open Body
34-614	5/8-18	7-3/4"	Open Body
34-607-2	1/2-20	7"	Tubular
34-608-2	5/8-18	8-1/2"	Tubular

Replacement Turnbuckle / Deck Toggle Jaws

ALL TYPE 316 STAINLESS



Use for Life Line or Rigging Applications.

CAT. NO.	THREAD SIZE	STYLE	CAT. NO.	THREAD SIZE	STYLE
33-601*	10-32 R.H.	T TOGGLE	33-617	5/16-24R.H.	T TOGGLE
33-602*	10-32 L.H.	T TOGGLE	33-618	5/16-24 L.H.	T TOGGLE
33-615	1/4-28 R.H.	T TOGGLE	33-617-1	5/16-24 R.H.	DECK TOGGLE
33-616	1/4-28 L.H.	T TOGGLE	33-618-1	5/16-24 L.H.	DECK TOGGLE
33-605	1/4-28 R.H.	TOGGLE NUT	33-619	3/8-24 R.H.	T TOGGLE
33-606	1/4-28 L.H.	TOGGLE NUT	33-620	3/8-24 L.H.	T TOGGLE
33-607	5/16-24R.H.	TOGGLE NUT	33-611	1/2-20 R.H.	TOGGLE NUT
33-608	5/16-24 L.H.	TOGGLE NUT	33-612	1/2-20 L.H.	TOGGLE NUT
33-609	3/8-24 R.H.	TOGGLE NUT	33-613	5/8-18 R.H.	TOGGLE NUT
33-610	3/8-24 L.H.	TOGGLE NUT	33-614	5/8-18 L.H.	TOGGLE NUT
33-615-1	1/4-28 R.H.	DECK TOGGLE	33-603**	1/4-28 R.H.	BCKSTY ADJ.
33-616-1	1/4-28 L.H.	DECK TOGGLE	33-604**	1/4-28 L.H.	BCKSTY ADJ.
33-615S*	1/4-28 R.H.	SHORTIE			
33-616S*	1/4-28 L.H.	SHORTIE			
33-615-1S	1/4-28 R.H.	SHORTIE			
33-616-1S	1/4-28 L.H.	SHORTIE			

* Also available in Deck Toggle Style.

** For 01 Series Backstay Adjuster Only
(Includes Square Nut)All Toggle Jaws can be used for life line and rigging applications.
Deck Toggles are used for Life line and Architectural applications only.

Replacement Locking Nuts

ALL TYPE 316 STAINLESS

LIFELINE
FITTINGS

CAT. NO.	THREAD SIZE	CAT. # USED ON
35-601	10-32 R.H.	03 & 11
35-602	10-32 L.H.	03
35-603	1/4-28 R.H.	04 & 19
35-604	1/4-28 L.H.	04, 19 & 21
35-605	5/16-24 R.H.	05 & 07
35-606	5/16-24 L.H.	05 & 07
35-607	3/8-24 R.H.	06 & 08

CAT. NO.	THREAD SIZE	CAT. # USED ON
35-608	3/8-24 L.H.	06 & 08
35-609	1/2-20 R.H.	General
35-610	1/2-20 L.H.	General
35-611	5/8-18 R.H.	General
35-612	5/8-18 L.H.	General

See full strength nuts on page 33 ARCHITECTURAL side of the catalog.

Replacement Knurled Nuts

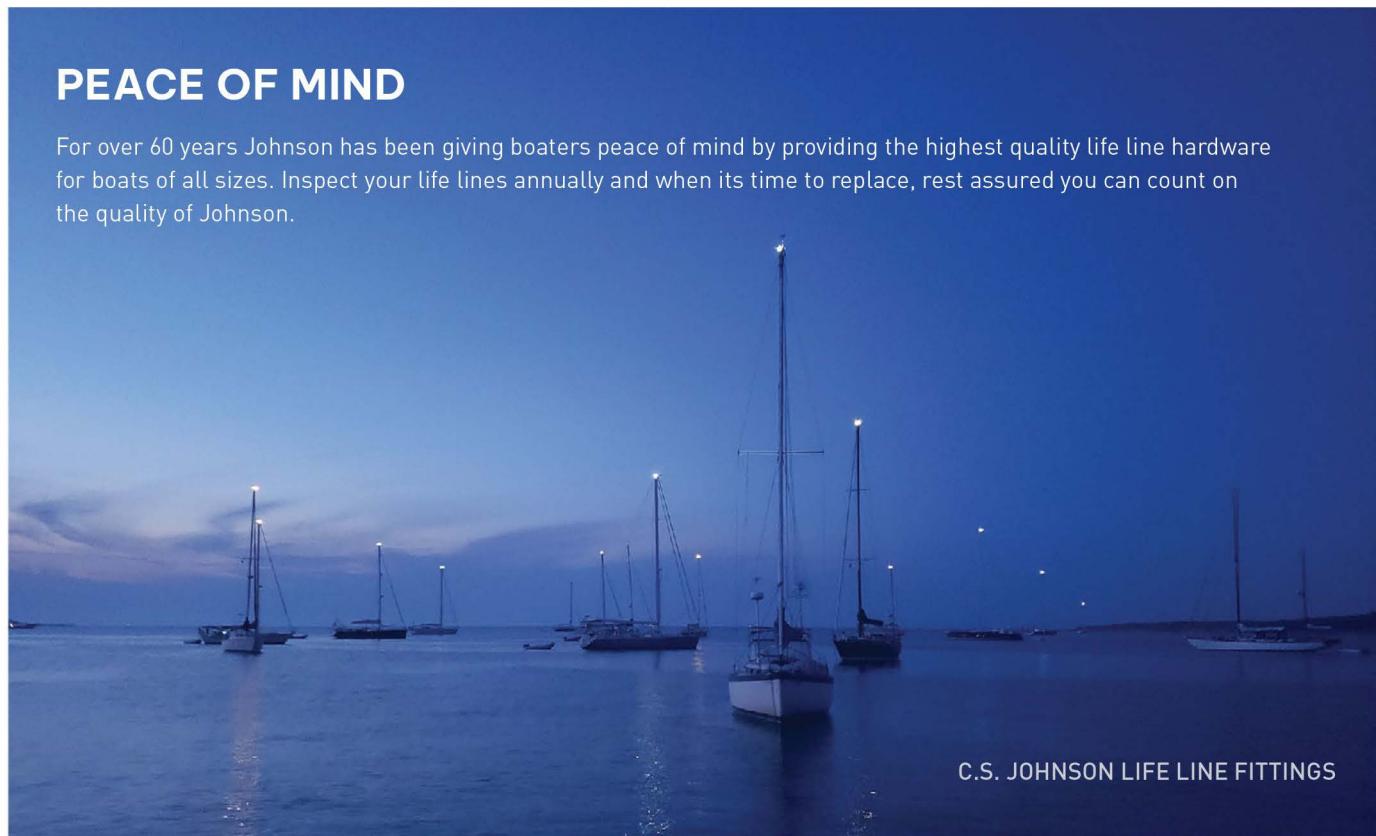
NICKEL PLATED BRONZE



CAT. NO.	THREAD SIZE	DESCRIPTION	SERIES USED ON
35-620	1/4-28 L.H.	ADJUSTER	23-303, 406
35-621	5/16-24 L.H.	ADJUSTER	24-303, 27-406
35-622	1/4-28 L.H.	PELICAN HOOK	23/24-301, 26/27-404
35-623	10-32 R.H.	TURNBUCKLE	23-302/11 SER
35-624	1/4-28 R.H.	TURNBUCKLE	24-302/12 SER

PEACE OF MIND

For over 60 years Johnson has been giving boaters peace of mind by providing the highest quality life line hardware for boats of all sizes. Inspect your life lines annually and when its time to replace, rest assured you can count on the quality of Johnson.



C.S. JOHNSON LIFE LINE FITTINGS

photo courtesy of Karen Kelley

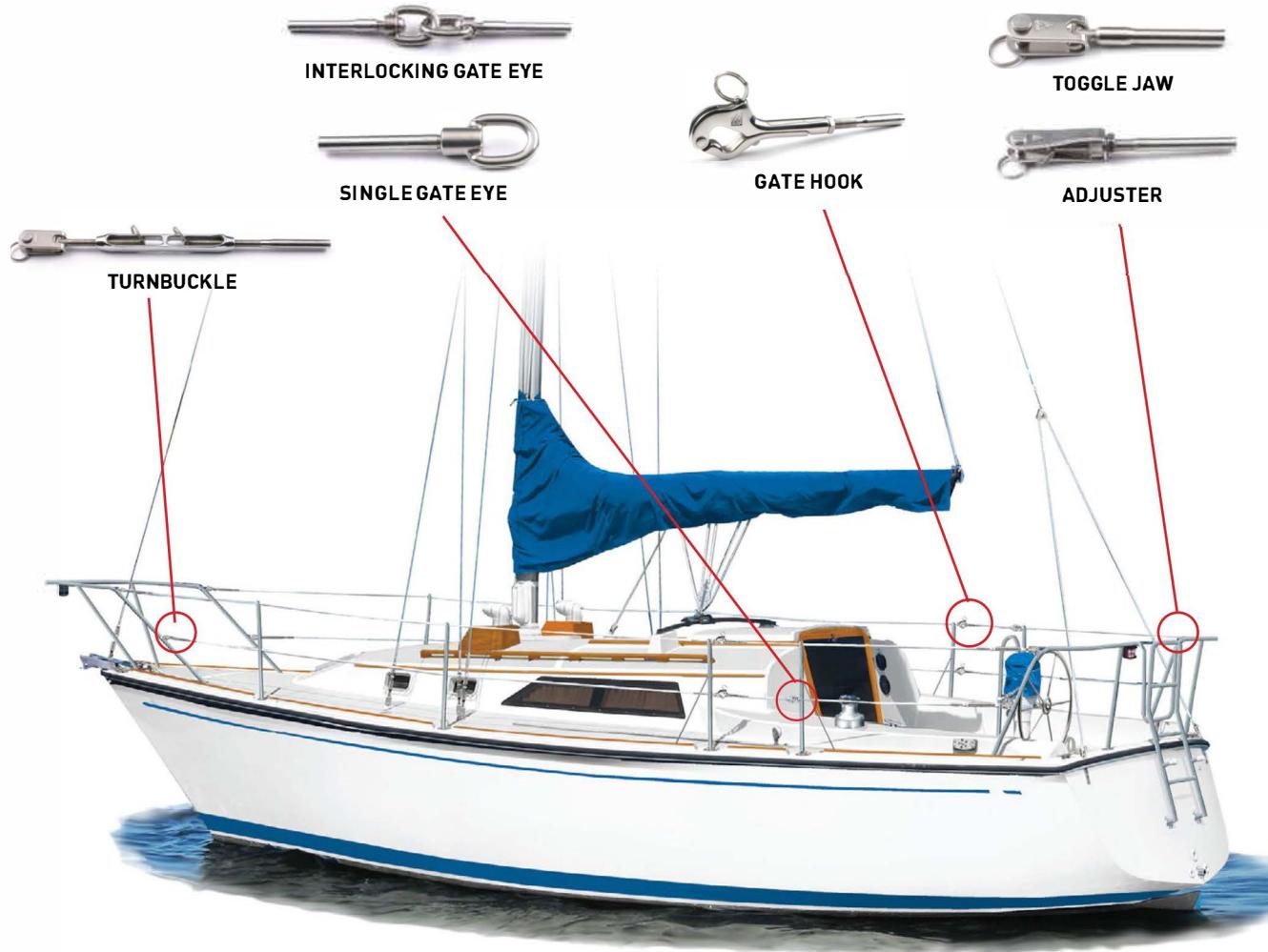


D-I-Y Hand Crimp Life Line Fittings

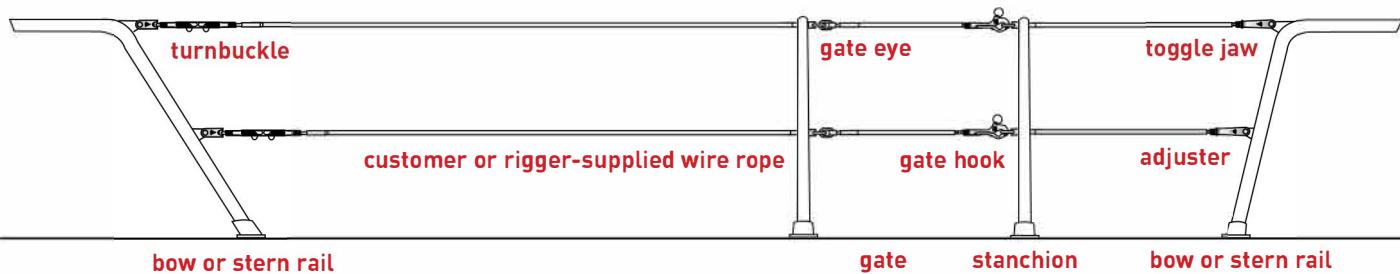
Not for lifting, hanging or other high load applications. See page 31 for Rigging Hardware.

Hand Crimp Life Line Fittings were first developed by JOHNSON in 1967 after extensive testing. These fittings were designed for easy do-it-yourself installation by the boat owner or professional. Acceptance caught on quickly in the marine trade and became widely used by OEM's and boat owners alike. The 1969 LANDS' END hardware catalog even featured our fittings. Today our fittings are still widely used in the marine and now the architectural trade. A properly installed hand crimp fitting will hold *65-70% of the breaking strength of 7x7 cable. The proper crimping tool and instructions must be used to assure a safe installation. Johnson sells two tools that can be used to crimp Johnson fittings (see page 28). Be sure to specify JOHNSON as these fittings have been copied around the world.

* See note on page 28 regarding Hand Crimp terminal guidelines.



TYPICAL SAILBOAT LIFE LINE SETUP





Mini Snap Gate Hook - "Over Center"

Our new Mini Snap Gate Hook features our same "Over-Center" design as our larger Snap Gate Hook. This feature allows easy opening and closing with no load on the swinging hook when closed. Ideal for lower life lines and powerboats. 2-3/4" grip length, 3" overall. Investment Cast T-316 Stainless.

26-784	1/8" wire	1/4"-28 L.H.	1" adj.
27-786	3/16" wire	1/4"-28 L.H.	1" adj.
21-71	Body Only	1/4"-28 L.H.	1" adj.
21-750 Repair Kit for lost or worn latching mechanisms			

"Over Center" Snap Gate Hook

This is our latest and best design yet. Features the "over center" design with no load on the swinging hook when closed. This feature allows easy opening yet stays secure with a heavy split ring on the plunger latching device. Investment Cast T-316 Stainless.

26-884	1/8" wire	1/4"-28 L.H.	1-1/4" adj.
27-886	3/16" wire	5/16"-24 L.H	1-1/4" adj.

Snap Gate Hook - Body Only *

For those who wish to replace their existing hooks - just match up the thread size. 3-1/2" long from end of body to inside bearing point of hook.

21-80	5/16"-24 L.H.
21-80-1	5/16"-24 R.H.
21-81	1/4"-28 L.H.
21-88	8mm x 1.25 R.H.

* Body Investment Cast in China

Snap Gate Hook Repair Kit

21-850	Repair Kit for lost or worn latching mechanisms
R-4	Ring Only



Safe Lock Gate Hook T-316

Stainless, safe, inexpensive design *Practical Sailor* called a "well engineered hunk of metal". Adjusts in place with knurled nut, stamped metal construction - 3-3/4" long from end of body to inside bearing point of hook.

26-404	1/8" wire	1/4"-28 L.H.	1-1/4" adj.
27-404	3/16" wire	1/4"-28 L.H.	1-1/4" adj.
35-622 Replacement Knurled Nut			



Tubular Gate Hook T-316

Inexpensive, slender tubular design with a stamped hook. 4-3/4" long from end of body to inside bearing point of hook.

26-403	1/8" wire	1/4"-28 L.H.	1-1/2" adj.
27-403	3/16" wire	1/4"-28 L.H.	1-1/2" adj.



Open Body Turnbuckle

Jaw to Swage

Classic, traditional design. Forged silicon bronze body with T-316 stainless ends.

BRONZE BODY / 316 STAINLESS ENDS

26-314	Chrome	1/8" wire 1/4" pin	3" adj.
27-316	Chrome	3/16" wire 1/4" pin	3" adj



Tubular Turnbuckle

Jaw to Swage - Check Nut Locking

Our most popular life line turnbuckle. Check nut locking.

ALL TYPE 316 STAINLESS

26-412*	1/8" wire	1/4" pin	3" adj.
27-412*	3/16" wire	1/4" pin	3" adj

* Add "S" for Shortie Version



Tubular Turnbuckle

Eye to Swage - Check Nut Locking

Used where an eye is required for attachment instead of a jaw- check nut locking.

ALL TYPE 316 STAINLESS

26-401*	1/8" wire	3" adj.
27-401*	3/16" wire	3" adj

* Add "S" for Shortie Version



Not for lifting, hanging or other
high load applications. See page 31
for Rigging Hardware.

“Smooth Line” Turnbuckle

Closed Thread

Very popular architectural turnbuckle also great for life lines. No exposed threads. Cable termination is hidden inside of body and rotates on threaded cap. For details see page 5 of ARCHITECTURAL section. T-316 stainless.

Crimp
Sleeve



26-715	1/8" wire	1/4" pin	2" adj.
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27-715	3/16" wire	1/4" pin	2" adj.
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Smooth Line Replacement Parts

60-610	Nose Cone - 1/8"
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60-611	Nose Cone - 3/16"
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60-619+36-611	Crimp Sleeve - 1/8"
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60-619	Crimp Sleeve - 3/16"
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Adjuster Turnbuckle

Jaw to Hand Crimp Terminal

Stamped, strap design turnbuckle with knurled nut for adjustment. T-316 stainless/bronze construction.

26-302	1/8" wire	1/4" pin	2-3/4" adj.
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27-302	3/16" wire	1/4" pin	2-3/4" adj.
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35-624	Replacement Knurled Nut
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35-624



Deck Toggle Turnbuckle

Deck Toggle to Hand Crimp Terminal

This “T” bolt style fitting is used on decks or bulkheads. Toggle nut style also available to match old style. T-316 stainless.

26-614-1T*	1/8" wire	1/4"-28	3" adj.
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27-412-1T*	3/16" wire	1/4"-28	3" adj.
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* Add "S" for Shortie Version



Turnbuckle replacement parts on pages 24-26.

Techno•TIP

Hand Crimp terminals, when properly applied, are approximately 65-70% of 7 x 7 wire strength. While this has proven adequate for life lines, we do not approve use of these fittings for standing rigging or other high load applications. Instructions for attachment (sent with order) must be followed.



Swivel, Single Gate Eye

A single eye is used on one end of the gate area to attach the gate hook.

26-409	1/8" wire
27-409	3/16" wire



Swivel, Interlocking Gate Eye

An interlocking gate eye is used at the opposite end of the gate hook as a "hinge" for the gate.

26-410	1/8" wire
27-410	3/16" wire



Eye to Eye Fitting

This fitting can be used wherever an eye is required on each side of the stanchion.

22-100	Adjustable between 3/4" and 1"
* Add -L for 1-1/4"	



3/4" to 1"

Deck Toggle - Old Style

This fitting can be used wherever a cable needs to be terminated to a deck or bulkhead.

26-405-1	1/8" wire wire "Old Style"
27-405-1	3/16" wire "Old Style"



Threaded, Single Gate Eye

Same as above only terminal is threaded into eye nut.

26-407	1/8" wire
27-407	3/16" wire



Threaded, Interlocking Gate Eye

Same as above only terminal is threaded into eye nut.

26-408	1/8" wire
27-408	3/16" wire



Eye to Interlocking Gate Eye Fitting

This fitting can be used wherever an eye is required on one side, and an interlocking eye on the other side of a stanchion.

22-304-100	Adjustable between 3/4" and 1"
* Add -L for 1-1/4"	



Deck Toggle - 'T' Style

Same Deck Toggle only "T" bolt construction.

26-405-1T	1/8" wire wire "T-Style"
27-405-1T	3/16" wire "T-Style"



Adjuster-Short

Generally used at the stern rail in conjunction with the single gate eye to tension that section of the gate.

26-406	1/8" wire 1/4" pin	1" adj.
35-620	Knurled Nut for 1/8" size	
27-406	3/16" wire 1/4" pin	1" adj.
35-621	Knurled Nut for 3/16" size	

**Toggle Jaw, Old Style**

Same as above only uses toggle nut style instead of "T" bolt style.

26-405	1/8" wire 1/4" pin
27-405	3/16" wire 1/4" pin

**Eye to Deck Toggle**

This fitting can be mounted to any flat surface and accept life line fittings, line, etc. Toggling action is 140 degrees.

Eye to Deck Toggle	Cat No. LS-2550
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Not for lifting, hanging or other high load applications. See page 31 for Rigging Hardware.

Toggle Jaw, "T" Style

Generally used at the stern rail when no gate is required with a turnbuckle forward.

26-415	1/8" wire 1/4" pin
27-415	3/16" wire 1/4" pin

**Eye to Jaw Fitting**

This fitting will convert a small bail at the stern rail to our standard gate eye to accept our Over Center Gate Hook.

Eye to Jaw	Cat. No. LS-2500
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**Gate Eye to Stud with Button**

These fittings can be used wherever a single or double gate eye is needed on one side of a stanchion.

22-304-10FS	Adjustable between 3/4" and 1"
22-303-10FS	Adjustable between 3/4" and 1"



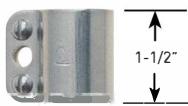
Stanchion Eye

1" Stanchion

This fitting is used on a stanchion for adding lower life lines without the need to drill holes for the cable to pass through. (5/16" hole).

Stanchion Eye

CAT. NO. 29-502



Diamond Pad Eye

1/4" Bail

This pad eye can be used on deck for life lines or other applications. 750 lbs safe working load. See our hinged pad eyes on page 61.

Diamond Pad Eye

CAT. NO. 28-501



Double Hand Crimp Terminal Fitting

Used whenever two pieces of cable need to be joined.

27-415-5-6

1/8 to 3/16" Hand Crimp



Length 5-1/2"

Gate Eye No Stud - Type 316



* Note - add -12 for RH

CAT. NO.	THREAD SIZE	DESCRIPTION
22-301-P	1/4-28 L.H.	Single Eye - 1/8" wire
22-303-P	5/16-24 L.H.	Single Eye - 3/16" wire
22-305-P	3/8-24 L.H.	Single Eye - 1/4" wire
22-302-P	1/4-28 L.H.	Intlk Eye - 1/8" wire
22-304-P	5/16-24 L.H.	Intlk Eye - 3/16" wire
22-306-P	3/8-24 L.H.	Intlk Eye - 1/4" wire

Pulpit Anchor

1" Rail

Can be used on the stern rail and bow pulpit to terminated jaw fittings for lower (or upper) life lines. (1/2" hole). Hole will not accept cast gate hooks.

Pulpit Anchor

CAT. NO. 29-501



Gate Stop

These collars can be used at the gate instead of interlocking eyes, they maintain tension while the gate is open. A setscrew holds them in place.



29-507	1/8" max inside diameter
29-503	3/16" max inside diameter
29-503-1	5/32" max inside diameter
29-504	1/4" max inside diameter
29-505	5/16" max inside diameter
29-506	3/8" max inside diameter

Stanchion Terminal

Used where the cable needs to be terminated at the stanchion.



26-405-5F 1/8" wire

27-405-5F 3/16" wire

Conversion Sleeve - Nickel Brass

Allows the use of 3/16" life line fittings to be used with 1/8" cable. Slide over cable first then into fitting.

36-611 1/8 to 3/16" Hand Crimp



Knurled Nuts - Nickel Plated Bronze



CAT. NO.	THREAD SIZE	DESCRIPTION	SERIES USED ON
35-620	1/4-28 L.H.	ADJUSTER	23-303, 406
35-621	5/16-24 L.H.	ADJUSTER	24-303, 27-406
35-622	1/4-28 L.H.	PELICAN HOOK	23/24-301, 26/27-404
35-623	10-32 R.H.	TURNBUCKLE	23-302/11 SER
35-624	1/4-28 R.H.	TURNBUCKLE	24-302/12 SER



Turnbuckle Bodies T-316/Silicon Bronze

CAT. NO.	THREAD SIZE	OVERALL LENGTH	STYLE
34-601	10-32	3-1/2"	Tubular
34-602	1/4-28	4-1/2"	Tubular
34-602S	1/4-28	3"	Tubular-Shortie
34-603	5/16-24	5-1/4"	Tubular
34-604	5/16-24	5-1/4"	Tubular-Slotted
34-605	3/8-24	5-1/2"	Tubular
34-606	3/8-24	5-1/2"	Tubular-Slotted
34-607	1/2-20	7"	Tubular-Slotted
34-608	5/8-18	8-1/2"	Tubular-Slotted

CAT. NO.	THREAD SIZE	OVERALL LENGTH	STYLE
34-609	1/4-28	4-1/2"	Tubular-Slotted
34-610	1/4-28	4-7/8"	Open Body
34-611	5/16-24	4-3/4"	Open Body
34-612	3/8-24	5-1/4"	Open Body
34-613	1/2-20	6-1/2"	Open Body
34-614	5/8-18	7-3/4"	Open Body
34-607-2	1/2-20	7"	Tubular
34-608-2	5/8-18	8-1/2"	Tubular



Use for Life Line or Rigging Applications.

Turnbuckle / Deck Toggle Jaws T-316

CAT. NO.	THREAD SIZE	STYLE
33-601*	10-32 R.H.	T TOGGLE
33-602*	10-32 L.H.	T TOGGLE
33-615	1/4-28 R.H.	T TOGGLE
33-616	1/4-28 L.H.	T TOGGLE
33-605	1/4-28 R.H.	TOGGLE NUT
33-606	1/4-28 L.H.	TOGGLE NUT
33-607	5/16-24 R.H.	TOGGLE NUT
33-608	5/16-24 L.H.	TOGGLE NUT
33-609	3/8-24 R.H.	TOGGLE NUT
33-610	3/8-24 L.H.	TOGGLE NUT
33-615-1	1/4-28 R.H.	DECK TOGGLE
33-616-1	1/4-28 L.H.	DECK TOGGLE
33-6155*	1/4-28 R.H.	SHORTIE
33-6165*	1/4-28 L.H.	SHORTIE
33-615-15	1/4-28 R.H.	SHORTIE
33-616-15	1/4-28 L.H.	SHORTIE

CAT. NO.	THREAD SIZE	STYLE
33-617	5/16-24 R.H.	T TOGGLE
33-618	5/16-24 L.H.	T TOGGLE
33-617-1	5/16-24 R.H.	DECK TOGGLE
33-618-1	5/16-24 L.H.	DECK TOGGLE
33-619	3/8-24 R.H.	T TOGGLE
33-620	3/8-24 L.H.	T TOGGLE
33-611	1/2-20 R.H.	TOGGLE NUT
33-612	1/2-20 L.H.	TOGGLE NUT
33-613	5/8-18 R.H.	TOGGLE NUT
33-614	5/8-18 L.H.	TOGGLE NUT
33-603**	1/4-28 R.H.	BCKSTY ADJ.
33-604**	1/4-28 L.H.	BCKSTY ADJ.



Use for Life Line or Rigging Applications.

All Toggle Jaws can be used for life line and rigging applications.
Deck Toggles are used for Life line and Architectural applications only.

Locking Nuts



CAT. NO.	THREAD SIZE	CAT. # USED ON
35-601	10-32 R.H.	03 & 11
35-602	10-32 L.H.	03
35-603	1/4-28 R.H.	04 & 19
35-604	1/4-28 L.H.	04, 19 & 21
35-605	5/16-24 R.H.	05 & 07
35-606	5/16-24 L.H.	05 & 07
35-607	3/8-24 R.H.	06 & 08

CAT. NO.	THREAD SIZE	CAT. # USED ON
35-608	3/8-24 L.H.	06 & 08
35-609	1/2-20 R.H.	General
35-610	1/2-20 L.H.	General
35-611	5/8-18 R.H.	General
35-612	5/8-18 L.H.	General

See full strength nuts on page 33 ARCHITECTURAL side of the catalog.

Threaded Life Line Terminals for Hand Crimp

Not for lifting, hanging or other high load applications. See page 31 for Rigging Hardware.

HAND
HC
CRIMP

ALL TYPE 316 STAINLESS

HAND CRIMP



CATALOG NUMBER	THREAD SIZE	WIRE SIZE	CAT # USED ON
31-601	1/4-28 L.H. x 3/8	1/8"	26-407 & 408
31-602***	1/4-28 L.H. x 1-1/2	1/8"	26-784, 26-406
31-603	1/4-28 L.H. x 2-1/2	1/8"	26-401, 26-884, 412 & 403
31-603-1	1/4-28 R.H. x 2-1/2	1/8"	GENERAL
31-603-1S	1/4-28 R.H. x 1-1/2	1/8"	Full Thread Terminal Tuners, "S" Series
31-603-1TT	1/4-28 R.H. x 3/8	1/8"	Blind Thread Terminal Tuners
31-604***	1/4-28 L.H. x 2-1/2	1/8"	26-404
31-605*	5/16-24 L.H. x 3/8	3/16"	27-407 & 408
31-606*	5/16-24 L.H. x 2	3/16"	27-406 & 26-413 & 27-413 & 27-886
31-606-1	5/16-24 R.H. x 2	3/16"	GENERAL
31-607*	1/4-28 L.H. x 2-1/2	3/16"	27-401 & 412 & 403
31-607-1*	1/4-28 R.H. x 2-1/2	3/16"	GENERAL
31-607S	1/4-28 L.H. x 1-1/2	3/16"	"S" Series, 27-786
31-607-1S	1/4-28 R.H. x 1-1/2	3/16"	Full Thread Terminal Tuners, "S" Series
31-607-1TT	1/4-28 R.H. x 3/8	3/16"	Blind Thread Terminal Tuners
*31-608***	1/4-28 L.H. x 2-1/2	3/16"	27-404
31-609	1/4-28 R.H. x 3-3/4	3/16"	27-302
26-405-5	1/4-28 R.H. x 3/8	1/8"	Special and 26-405-5F/B
27-405-5	1/4-28 R.H. x 3/8	3/16"	Special and 27-405-5F/B

* - 3/16" terminals may be used for 1/8" wire - Order #36-611 sleeve

*** - Cross drilled for cotter pin.



photo courtesy of Zim Sailing

Hand Crimp Tools

Johnson Hand Crimp Fittings have proven themselves over the years, however the overall integrity of the system depends on the proper tools for the job. We cannot stress enough the need to use either our #53-210 bolt tool or our #53-215 lever crimping tools built to handle the stress of crimping Johnson stainless fittings. "Nicropress" tools were designed to crimp soft copper and aluminum oval and stop sleeves only. Johnson tools are designed with special width and relief patterns which apply to Johnson hand crimp fittings and instructions only. The use of other tools or crimping fittings other than Johnson hand crimp fittings with Johnson tools can result in failure of the terminal, personal injury or loss of life.

1. Our Lever Type Tool has two cavities for 1/8" and 3/16" Hand Crimp fittings. This is a good production tool for the dealer.

Lever Type Tool CAT. NO. 53-215

2. Our Bolt Type Tool should not be confused with other similar type tools. This tool works well for the boat owner replacing several or all life line fittings on their boat.

Bolt Type Tool CAT. NO. 53-210

3. Our Felco Cable Cutter will give you a clean, crisp cut through 1/4" sized cables. Swiss made.

Felco Cable Cutter CAT. NO. 53-220

4. Our Larger Felco Cable Cutter cuts cable through 3/8".

Felco Cable Cutter CAT. NO. 53-222

Our **Largest Felco Cable Cutter** cuts cable through 5/8".

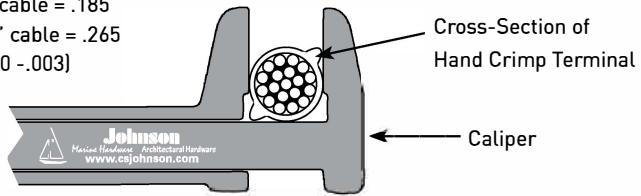
Felco Cable Cutter CAT. NO. 53-224 (not shown)



After Crimp Dimensions for Johnson Hand Crimp Fittings:

1/8" cable = .185

3/16" cable = .265
(+.000 -.003)



Installation Instructions

Johnson Hand Crimp Life Line Terminals
Using Hand Swaging
Tool #53-215



TOOLS Required for Installation:

- Cable Cutter • Marking pen or pencil
- Sharp knife • Johnson Marine Life Line Tool (CAT. NO. 53-215)

Instructions apply to this tool only ... FAILURE could result from using other tools.

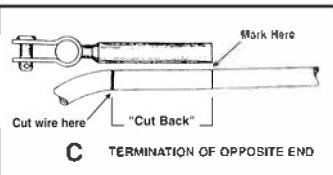
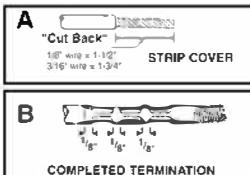
IMPORTANT: Use only 1/8" or 3/16", preformed, corrosion resistant wire in 7x7 or 1x19 construction with finish dimensions to MIL-W-5424B

1. Adjust all turnbuckles & pelican hooks to 2/3 extended.
2. Strip vinyl cover back to expose bare wire to dimensions shown in (A).
3. ***Place terminal into proper die:
1/8" wire - Tool #53-215 die marked "1/8".
3/16" wire - Tool #53-215 die marked "3/16".
4. Insert wire into terminal positioning approximately 1/8" from end. Make sure that vinyl cover is tight against terminal before crimping. Complete 3 crimps as shown in (B). Use the gauge provided with

tool to check the after crimp dimension. Measure here... adjust tool if required.

5. Attach completed terminal at required position and lead wire through stanchion eyes. Attach next terminal to be crimped at required position and while holding wire taut, mark wire as shown in (C).
6. Repeat steps 2 thru 4.

*Hand Crimp terminals when properly applied will withstand pullout strains of 65 to 70% of 7 x 7 wire strength. We do not warrant use of these terminals for standing rigging or other high load applications. **1/8" wire may be used with 3/16 terminal by installing sleeve (CAT. NO. 36-611) into terminal.



Installation Instructions

Johnson Hand Crimp
Using Hand Tool #53-210
Applies to use of 1/8" & 3/16" wire on #27 series (3/16") Terminals only (using adapter sleeve for 1/8" wire).



TOOLS Required for Installation:

- Cable Cutter • Johnson Marine Life Line Tool #10 (CAT. NO. 53-210) 1/2"
- Marking pen or pencil • Sharp knife • Open End Wrench or Socket Wrench

Instructions apply to this tool only ... FAILURE could result from using other tools.

IMPORTANT: Use only 1/8" or 3/16", preformed, corrosion resistant wire in 7x7 or 1x19 construction with finish dimensions to MIL-W-5424B

1. Adjust all turnbuckles and pelican hooks to 2/3 extended.
2. Strip vinyl cover back 1 13/16" to expose bare wire.
3. Insert terminal into die (marked 3/16") as shown in (A). Tighten clamping bolts just enough to grip terminal firmly.
4. When using 1/8" wire, insert sleeve (CAT. NO. 36-611) into terminal. 3/16" wire does not require a sleeve.
5. Insert wire into terminal, tighten clamping bolts alternately making sure the vinyl cover stays tight against terminal.
6. Tighten bolts alternately until die blocks are fully closed and no space can be seen between them.

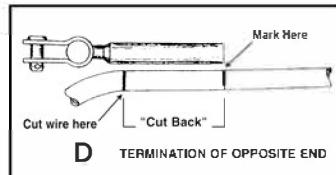
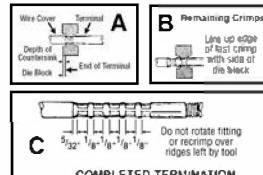
7. Loosen bolts until terminal can be repositioned for next crimp.

8. Position terminal as shown in (B) and repeat steps 6 & 7 until a total of five (5) crimps have been completed. Terminal should appear as shown in (C).

9. Attach completed terminal at required position and lead wire through stanchion eyes. Attach next terminal to be crimped at required position and while holding wire taut, mark wire as shown in (D).

10. Repeat steps 2 through 8.

*Hand Crimp terminals when properly applied will withstand pullout strains of 65 to 70% of 7 x 7 wire strength. We do not warrant use of these terminals for standing rigging or other high load applications.





Military Specification Swage Machines

Always swage Military Specification Fittings with Military Specification Cable in a Military Specification Swage Machine of the same size and meet or exceed the breaking strength of the cable.

THE PROCESS

01

Cable inserted
into fitting.



02

One pass through
the Swage Machine



03

Second pass through
the Swage Machine



Loos Locoloc M2 with Johnson Machine Swage Terminal
in the die is ready to be swaged.



Questions? Call us! Please don't hesitate to call us with any questions. we're here to help!

1-800-873-8697



JOHNSON MARINE

CSJOHNSON.com | 860.873.8697

Swaging Machines

Portable Hydraulic Press Swager - by Johnson

Our popular hydraulic press swager features a user friendly, spring loaded die set for easy re-load and die alignment. The included die set will swage 1/8" and 3/16" terminals. All that is required is 100 psi of compressed air which is coupled to an air over hydraulic foot switch. An electric over hydraulic pump can also be used as an option. Not rated or certified for mil-spec applications such as aircraft control cables or marine standing rigging, perfect for architectural cable rail terminals and marine life line terminals.

Locoloc® Bench Swager - Type II

A sophisticated swaging machine which is bench mounted for easy operation. This swaging machine will accomplish the swaging of AN or MS type fittings on all galvanized and stainless steel cable up to and including 3/8" diameter. Available in hand crank manual or powered versions.

M2 Manual / M2-P Power

Swaging Range:

1/16" & 3/8"

Dimensions:

L 12"

W 9"

H 12"

Shipping Weight:

175 lbs (manual)

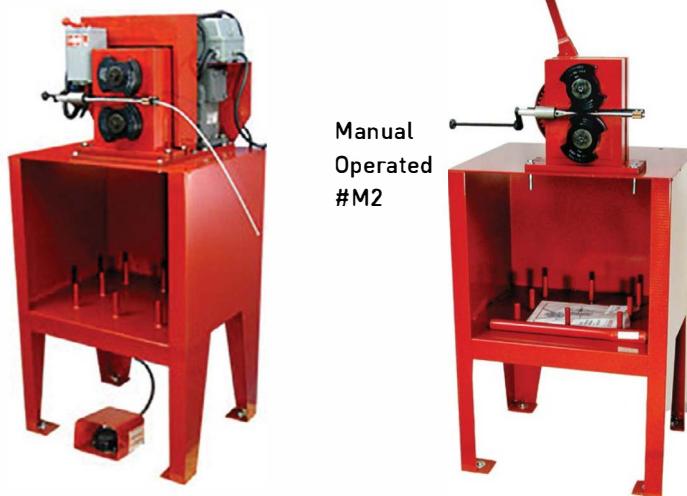
275 lbs (power)

Made in USA

Makes Mil-Spec Swages

Power
Operated
#M2-P

Manual
Operated
#M2



WireTeknik™ Roller Swagers

Made in Sweden - Makes Mil Spec Swages

NOTE: Cannot swage Smooth Line Turnbuckles, Blind Thread Terminal Tuners and 1/8" Terminator Turnbuckles. Adapter needed for deck toggles. All Wireteknik swaging machines and accessories/replacement parts are available through Johnson.

A100

Swaging Range:

1/16" & 3/16"

Dimensions:

L 19-3/4"

W 11-3/4"

H 4"

Shipping Weight:

50 lbs

A200

Swaging Range:

1/16" & 5/16"

Dimensions:

L 17"

W 11"

H 4-3/4"

Shipping Weight:

100 lbs

A270

Swaging Range:

3/32" & 1/2"

Dimensions:

L 37"

W 15-3/8"

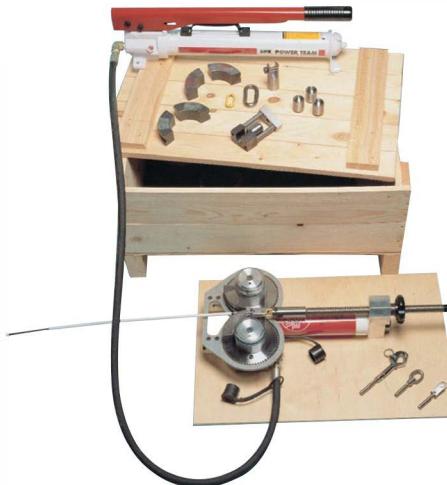
H 6-9/32"

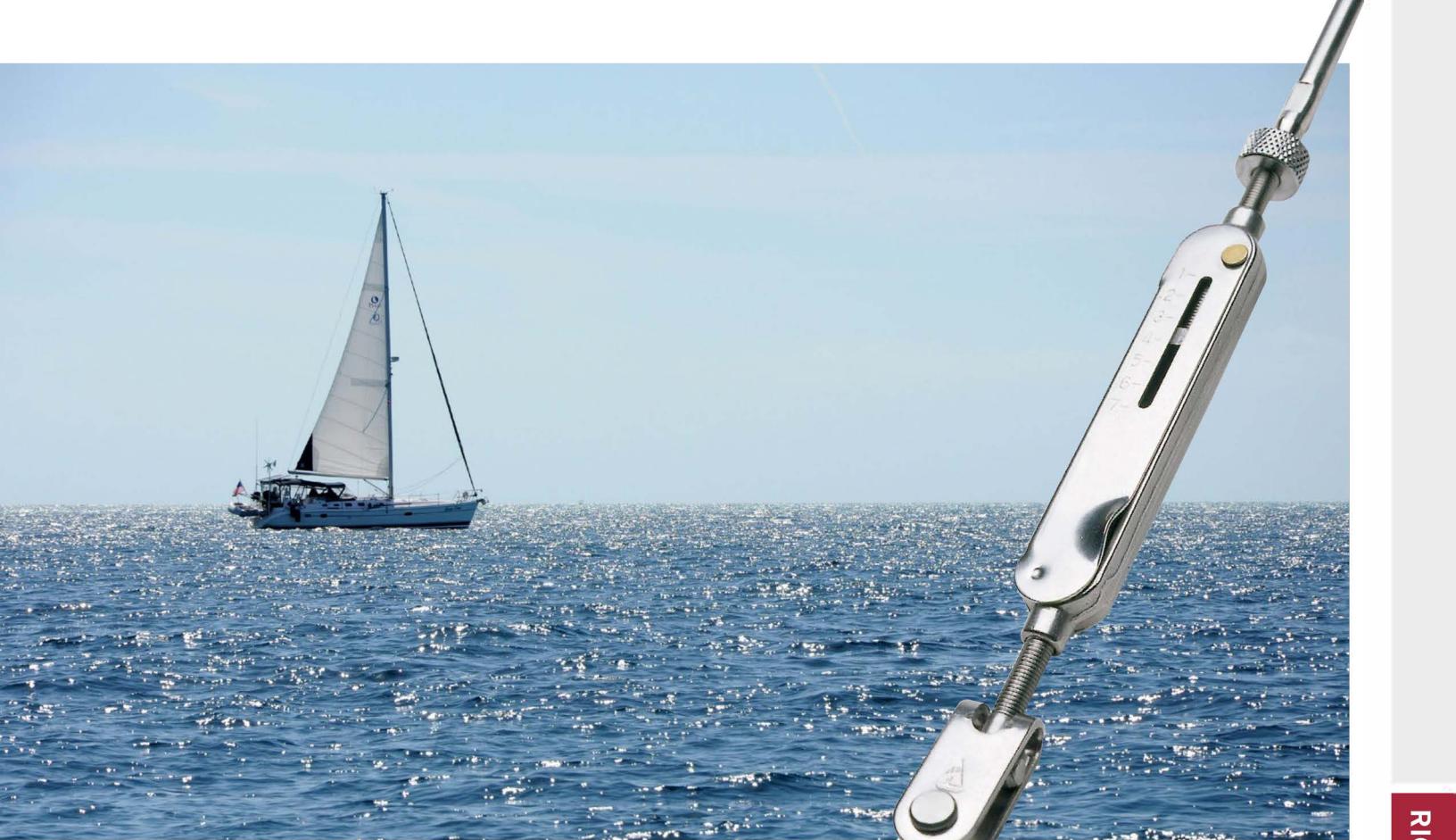
Shipping Weight:

150 lbs



A200 shown with standard pulling devices and hand pump. (Johnson fittings not included).





RIGGING



Johnson
Rigging Hardware

At Johnson Marine we understand what is needed to rig dinghies up through large cruisers. Johnson offers a full line of terminals, backstay/inner forestay turnbuckles, toggles, plates, pins and rings. Everything you need to rig and tune your boat safely.

- Offshore-duty Rigging Turnbuckles
- Quick release levers, toggle jaws, adapter plates and shroud adjusters... regular and calibrated.
- Backstay Hardware
- Johnson Dependability... peace of mind while cruising.
- All terminals machined from T-316 stainless steel.

UP NEXT: Full Strength Rigging Hardware



Open Body Turnbuckles - Jaw and Jaw

For those who prefer a traditional body turnbuckle. The forged silicon bronze body, coupled with our integral toggle jaw, provides positive locking and ease of adjustment.

Forged silicon bronze bodies with 316 stainless ends offer a great non-galling combination. Integral toggle jaw eliminates the need for a separate rigging toggle.

REPLACEMENT PARTS ON PAGES 49-51

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	PIN TO PIN LENGTH		BODY LENGTH	PIN DIA	WT. lb	WT. oz
						Closed	Open				
42-110**	Jaw/Jaw	To 5/32"	2,500 lbs	1000 lbs.	1/4-28	8"	11"	4-1/2"	1/4"	5	
43-110**	Jaw/Jaw	To 3/16"	4,000 lbs.	1600 lbs	5/16-24	8-3/8"	12"	4-7/8"	5/16"	8	
44-110**	Jaw/Jaw	To 1/4"	7,000 lbs	2800 lbs.	3/8-24	9-7/8"	13-7/8"	5-1/2"	3/8"	14	
45-100	Jaw/Jaw	To 5/16"	10,500 lbs	4200 lbs.	1/2-20	11-1/2"	15-1/2"	6-1/2"	1/2"	1	0
47-100	Jaw/Jaw	To 3/8"	14,800 lbs.	5900 lbs.	5/8-18	14-1/2"	19"	7-3/4"	5/8"	3	4

** Jaw with "T" Toggle Construction. All others have bronze toggle nuts to prevent galling under high load conditions.



Open Body Turnbuckles - Jaw and Machine Swage

REPLACEMENT PARTS ON PAGES 49-51

MACHINE
MS
SWAGE

BRONZE BODY / 316 STAINLESS ENDS

CAT. NO.	TYPE	WIRE SIZE	APPROX. REAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	ADJUSTMENT	BODY LENGTH	PIN DIA.	WT. lb oz
42-113**	Jaw/Swage	3/32"	2,500 lbs	1000 lbs.	1/4-28	3"	4-1/2"	1/4"	4
42-114**	Jaw/Swage	1/8"	2,500 lbs	1000 lbs.	1/4-28	3"	4-1/2"	1/4"	4
42-115**	Jaw/Swage	5/32"	2,500 lbs	1000 lbs.	1/4-28	3"	4-1/2"	1/4"	4
43-115**	Jaw/Swage	5/32"	4,000 lbs.	1600 lbs	5/16-24	3-5/8"	4-7/8"	5/16"	7
43-116**	Jaw/Swage	3/16"	4,000 lbs.	1600 lbs	5/16-24	3-5/8"	4-7/8"	5/16"	7
44-116**	Jaw/Swage	3/16"	7,000 lbs	2800 lbs.	3/8-24	4"	5-1/2"	3/8"	12
44-117**	Jaw/Swage	7/32"	7,000 lbs	2800 lbs.	3/8-24	4"	5-1/2"	3/8"	12
44-118**	Jaw/Swage	1/4"	7,000 lbs	2800 lbs.	3/8-24	4"	5-1/2"	3/8"	12
45-108	Jaw/Swage	1/4"	10,500 lbs	3500 lbs.	1/2-20	4-1/8"	6-1/2"	1/2"	9
45-109	Jaw/Swage	9/32"	10,500 lbs	3500 lbs.	1/2-20	4-1/8"	6-1/2"	1/2"	9
45-110	Jaw/Swage	5/16"	10,500 lbs	4200 lbs.	1/2-20	4-1/8"	6-1/2"	1/2"	9
47-110	Jaw/Swage	5/16"	14,800 lbs	4200 lbs.	5/8-18	5"	7-3/4"	5/8"	3 8
47-112	Jaw/Swage	3/8"	14,800 lbs	5900 lbs.	5/8-18	5"	7-3/4"	5/8"	3 8

** Jaw with "T" Toggle Construction. All others have bronze toggle nuts to prevent galling under high load conditions.



photo courtesy of Hake Yachts

RIGGING



Stainless Steel Tubular Turnbuckles - Jaw and Jaw

Check Nut Locking

REPLACEMENT PARTS ON PAGES 49-51

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	PIN TO PIN LENGTH Closed	PIN TO PIN LENGTH Open	BODY LENGTH	PIN DIA	WT. lb	WT. oz
03-110**	Jaw/Jaw	To 3/32"	1,000 lbs	400 lbs.	10-32	6-3/8"	8-7/8"	3-1/2"	3/16"	2.5	
04-100	Jaw/Jaw	To 5/32"	2,500 lbs.	1000 lbs	1/4-28	8"	11"	4-1/2"	1/4"	5	
04-110**	Jaw/Jaw	To 5/32"	2,500 lbs	1000 lbs.	1/4-28	8"	11"	4-1/2"	1/4"	5	
04-110S**	Jaw/Jaw	To 5/32"	2,500 lbs	1000 lbs.	1/4-28	6-1/2"	9-1/2"	3"	1/4"	5	
05-110**	Jaw/Jaw	To 3/16"	4,000 lbs.	1600 lbs.	5/16-24	9"	12-3/4"	5-1/8"	5/16"	8	
06-110**	Jaw/Jaw	To 1/4"	7,000 lbs.	2800 lbs.	3/8-24	9-1/2"	13-3/4"	5-5/8"	3/8"	14	
09-100-2	Jaw/Jaw	To 5/16"	10,500 lbs.	4200 lbs.	1/2-20	12"	16-3/4"	7"	1/2"	1	12
10-100-2	Jaw/Jaw	To 3/8"	14,800 lbs.	5900 lbs.	5/8-18	14"	19"	8-5/8"	5/8"	3	10

**Jaw with "T" Toggle Construction. All others have bronze toggle nuts to prevent galling under high load conditions.



Stainless Steel Tubular Turnbuckles - Classic Jaw & Machine Swage

Check Nut Locking

TECH TIP - Pin size = jaw width
See page 48 for full specs of toggles.

MACHINE
MS
SWAGE

ALL TYPE 316 STAINLESS

REPLACEMENT PARTS ON PAGES 49-51

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	ADJUSTMENT	BODY LENGTH	PIN DIA	WT. lb oz
03-112*	Jaw/Swage	*1/16"	1,000 lbs	400 lbs.	10-32	2-1/2"	3-1/2	3/16"	2
03-113*	Jaw/Swage	3/32"	1,000 lbs	400 lbs.	10-32	2-1/2"	3-1/2	3/16"	2
04-103*	Jaw/Swage	3/32"	2,500 lbs	1000 lbs.	1/4-28	3"	4-1/2	1/4"	4
04-104	Jaw/Swage	1/8"	2,500 lbs	1000 lbs	1/4-28	3"	4-1/2	1/4"	4
04-105	Jaw/Swage	5/32"	2,500 lbs	1000 lbs	1/4-28	3"	4-1/2	1/4"	4
04-113**	Jaw/Swage	3/32"	2,500 lbs	1000 lbs.	1/4-28	3"	4-1/2	1/4"	4
04-114**	Jaw/Swage	1/8"	2,500 lbs	1000 lbs.	1/4-28	3"	4-1/2	1/4"	4
04-115**	Jaw/Swage	5/32"	2,500 lbs	1000 lbs.	1/4-28	3"	4-1/2	1/4"	4
05-115**	Jaw/Swage	5/32"	4,000 lbs	1600 lbs.	5/16-24	3-3/4"	5-1/8	5/16"	7
05-116**	Jaw/Swage	3/16"	4,000 lbs	1600 lbs.	5/16-24	3-3/4"	5-1/8	5/16"	7
06-116**	Jaw/Swage	3/16"	7,000 lbs	2800 lbs.	3/8-24	4-1/4"	5-5/8	3/8"	12
06-117**	Jaw/Swage	7/32"	7,000 lbs	2800 lbs.	3/8-24	4-1/4"	5-5/8	3/8"	12
06-118**	Jaw/Swage	1/4"	7,000 lbs	2800 lbs.	3/8-24	4-1/4"	5-5/8	3/8"	12
09-108-2	Jaw/Swage	1/4"	10,500 lbs	3500 lbs.	1/2-20	4-1/8"	7	1/2"	1 9
09-109-2	Jaw/Swage	9/32"	10,500 lbs	3500 lbs.	1/2-20	4-1/8"	7	1/2"	1 9
09-110-2	Jaw/Swage	5/16"	10,500 lbs	4200 lbs.	1/2-20	4-1/8"	7	1/2"	1 9
10-110-2	Jaw/Swage	5/16"	14,800 lbs	4200 lbs.	5/8-18	5"	8-5/8	5/8"	3 2
10-112-2	Jaw/Swage	3/8"	14,800 lbs	5900 lbs.	5/8-18	5"	8-5/8	5/8"	3 2

NOTE: The 03 & 04 series come standard with L.H. upper terminal. All other series have R. H. The 04 series is available with R. H. upper terminal. To order add -12 to the catalog number.

**Jaw with "T" Toggle Construction. All others have bronze toggle nuts to prevent galling under high load conditions.

*Swage with 3/32" die.



RIGGING



photo courtesy of Morris Yachts



Positive Lock Stainless Steel Tubular Turnbuckles - Jaw and Jaw

Positive locking with our LOCKING RINGS. They replace expendable cotter pins and being captive, can not be lost overboard. There are no pointed or rough ends to snag sails or shins.

REPLACEMENT PARTS ON PAGES 49-51, 53

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	PIN TO PIN LENGTH		BODY LENGTH	PIN DIA	WT. lb oz
						Closed	Open			
04-120**	Jaw/Jaw	To 5/32"	2,500 lbs	1000 lbs.	1/4-28	7-3/4"	10-5/8"	4-1/2	1/4"	5
07-110**	Jaw/Jaw	To 3/16"	4,000 lbs	1600 lbs.	5/16-24	8-1/2"	11-5/8"	5-1/8	5/16"	8
08-110**	Jaw/Jaw	To 1/4"	7,000 lbs	2800 lbs.	3/8-24	9-1/4"	12-1/4"	5-5/8	3/8"	13
09-100	Jaw/Jaw	To 5/16"	10,500 lbs	4200 lbs.	1/2-20	12"	16-3/4"	7	1/2"	1 12
10-100	Jaw/Jaw	To 3/8"	14,800 lbs	5900 lbs.	5/8-18	14"	19"	8-5/8	5/8"	3 10

**Jaw with "T" Toggle Construction. All others have bronze toggle nuts to prevent galling under high load conditions. See page 53 for replacement rings.



Positive Lock Stainless Steel Tubular Turnbuckles - Jaw & Machine Swage

REPLACEMENT PARTS ON PAGES 49-51, 53

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	ADJUSTMENT	BODY LENGTH	PIN DIA	WT. lb oz
04-123**	Jaw/Swage	3/32"	2,500 lbs	1000 lbs.	1/4-28	2-7/8"	4-1/2	1/4"	4
04-124**	Jaw/Swage	1/8"	2,500 lbs	1000 lbs.	1/4-28	2-7/8"	4-1/2	1/4"	4
04-125**	Jaw/Swage	5/32"	2,500 lbs	1000 lbs.	1/4-28	2-7/8"	4-1/2	1/4"	4
07-115**	Jaw/Swage	5/32"	4,000 lbs.	1600 lbs	5/16-24	3-1/8"	5-1/8	5/16"	1 7
07-116**	Jaw/Swage	3/16"	4,000 lbs.	1600 lbs	5/16-24	3-1/8"	5-1/8	5/16"	3 7
08-116**	Jaw/Swage	3/16"	7,000 lbs	2800 lbs.	3/8-24	3-1/4"	5-5/8	3/8"	11
08-117**	Jaw/Swage	7/32"	7,000 lbs	2800 lbs.	3/8-24	3-1/4"	5-5/8	3/8"	11
08-118**	Jaw/Swage	1/4"	7,000 lbs	2800 lbs.	3/8-24	3-1/4"	5-5/8	3/8"	11
09-108	Jaw/Swage	1/4"	10,500 lbs	3500 lbs.	1/2-20	4-1/8"	7	1/2"	1 9
09-109	Jaw/Swage	9/32"	10,500 lbs	3500 lbs.	1/2-20	4-1/8"	7	1/2"	1 9
09-110	Jaw/Swage	5/16"	10,500 lbs	4200 lbs.	1/2-20	4-1/8"	7	1/2"	1 9
10-110	Jaw/Swage	5/16"	14,800 lbs	4200 lbs.	5/8-18	5"	8-5/8	5/8"	3 2
10-112	Jaw/Swage	3/8"	14,800 lbs	5900 lbs.	5/8-18	5"	8-5/8	5/8"	3 2

NOTE: The 03 & 04 series come standard with L.H. upper terminal. All other series have R. H. The 04 series is available with R. H. upper terminal. To order add -12 to the catalog number.

**Jaw with "T" Toggle Construction. All others have bronze toggle nuts to prevent galling under high load conditions.





Handy Lock 46 Series for Backstays, Inner Forestays and Heavy Duty Tie Downs

The 46 Series is our largest Handy Lock turnbuckle. The 46 Series is constructed with a tubular body instead of an open body like the 01 and 02 Series. Two flip out handles provide tool free adjustment and positively lock the turnbuckle without cotter pins or check nuts. The Handy Lock has all the features needed for easy adjustment in a compact package. There are no sharp points to catch lines or tear sails, just flip the levers out to adjust and in to lock down. The 46 Handy Lock is available in Jaw & Jaw construction making it ideal for backstays. This 46 Handy Lock works great on an inner forestay vs. a larger more complicated Hyfield lever.

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	LENGTH Closed	LENGTH Open	PIN DIA	WT. lb	WT. oz
1 46-500	Jaw/Jaw	To 3/8"	14,800 lbs	5900 lbs.	5/8-18	15"	21"	5/8"	3	12
2 46-501	Jaw/Jaw	To 5/16"	10,500 lbs	4200 lbs.	5/8-18	15"	21"	1/2"	3	6
2 46-500-1	Jaw/Jaw	3/8"	14,800 lbs	5900 lbs.	5/8-18	15"	21"	5/8"	3	12
2 46-501-1	Jaw/Jaw	5/16"	10,500 lbs	4200 lbs.	5/8-18	15"	21"	1/2"	3	6
1 46-500-2	Jaw/Jaw	3/8"	14,800 lbs	5900 lbs.	5/8-18	15"	21"	5/8"	3	12
2 46-501-2	Jaw/Jaw	5/16"	10,500 lbs	4200 lbs.	5/8-18	15"	21"	1/2"	3	6

NOTE: Turnbuckles #1 and #2 may be fitted with a Quick Release Pin for use as a forestay release turnbuckle.
-1 is for one pin. -2 is for two pins.

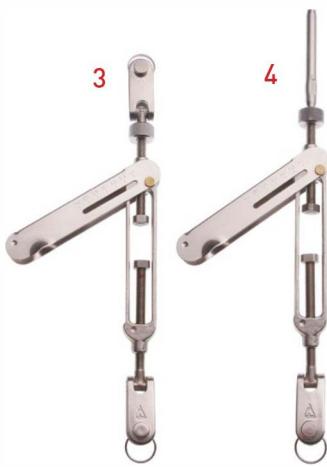




Handy Lock 01 Series for Shrouds and Stays Regular and Calibrated

The 01 Series **Handy Lock** turnbuckle is one of our oldest products and still stands the test of time. Neat and compact and positively locked without cotter pins or check nuts, the Handy Lock has all the features needed for easy adjustment in a compact package. There are no sharp points to catch lines or tear sails, just flip the lever up to adjust and down to lock. The 01 Handy Lock is available in Jaw & Jaw, Jaw & Swage and Calibrated construction. The calibrated version has a knurled knob incorporated into the upper stud end to provide tool free adjustment and a calibrated viewing slot to register your adjustment. Use the Handy Lock anywhere an easily adjusted turnbuckle is needed.

Great for Tie Downs Too!



CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	LENGTH Closed	LENGTH Open	PIN DIA	WT. lb oz
1 01-110	Jaw/Jaw	To 5/32"	2,500 lbs	1000 lbs.	1/4-28	7-1/2"	10-1/2"	1/4"	7
2 01-113	Jaw/Swage	3/32"	2,500 lbs.	1000 lbs	1/4-28	3" Adj.		1/4"	6
2 01-114	Jaw/Swage	1/8"	2,500 lbs	1000 lbs.	1/4-28	3" Adj.		1/4"	6
3 01-115	Jaw/Swage	5/32"	2,500 lbs.	1000 lbs.	1/4-28	3" Adj.		1/4"	6
4 01-110-C	Jaw/Jaw	To 5/32"	2,500 lbs.	1000 lbs.	1/4-28	7-1/2"	10-1/2"	1/4"	7
4 01-113-C	Jaw/Swage	3/32"	2,500 lbs.	1000 lbs.	1/4-28	3" Adj.		1/4"	6
4 01-114-C	Jaw/Swage	1/8"	2,500 lbs.	1000 lbs.	1/4-28	3" Adj.		1/4"	6
4 01-115-C	Jaw/Swage	5/32"	2,500 lbs.	1000 lbs.	1/4-28	3" Adj.		1/4"	6

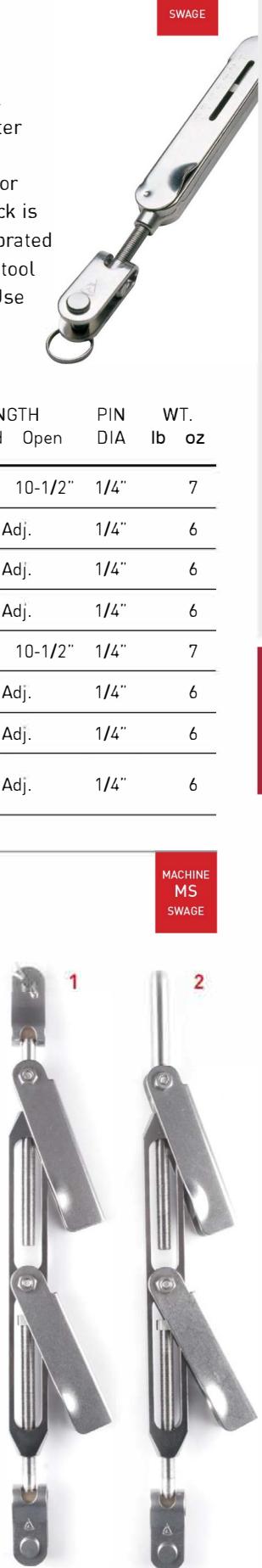
Handy Lock 02 Series for Shrouds, Stays and Tie Downs

The 02 Series **Handy Lock** turnbuckle is the big brother to the 01 Series. Two flip out handles provide tool free adjustment and positively lock the turnbuckle without cotter pins or check nuts. The Handy Lock has all the features needed for easy adjustment in a compact package. There are no sharp points to catch lines or tear sails, just flip the levers out to adjust and in to lock down. The 02 Handy Lock is available in Jaw & Jaw and Jaw & Swage construction making it ideal for backstays or inner forestays. Use the Handy Lock anywhere an easily adjusted turnbuckle is needed.

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	SAFE WORKING LOAD	THREAD SIZE	LENGTH Closed	LENGTH Open	PIN DIA	WT. lb oz
1 02-100	Jaw/Jaw	To 1/4"	7,000 lbs	2,800 lbs.	3/8-24	13-1/4"	19-1/4"	3/8"	1 13
2 02-106	Jaw/Swage	3/16"	7,000 lbs	2,800 lbs.	3/8-24	6" Adj.		3/8"	1 10
2 02-107	Jaw/Swage	7/32"	7,000 lbs	2,800 lbs.	3/8-24	6" Adj.		3/8"	1 10
2 02-108	Jaw/Swage	1/4"	7,000 lbs	2,800 lbs.	3/8-24	6" Adj.		3/8"	1 10
2 02-106-1	Jaw/Swage	3/16"	7,000 lbs	2,800 lbs.	3/8-24	6" Adj.		3/8"	1 10
2 02-107-1	Jaw/Swage	7/32"	7,000 lbs	2,800 lbs.	3/8-24	6" Adj.		3/8"	1 10
2 02-108-1	Jaw/Swage	1/4"	7,000 lbs	2,800 lbs.	3/8-24	6" Adj.		3/8"	1 10

NOTE: Turnbuckles #1 and #2 may be fitted with a Quick Release Pin for use as a forestay release turnbuckle.

-1 is for one pin. Substitute -2 for two pins



Small Boat Stay and Shroud Adjusters



photo courtesy of Zim Sailing



Shroud Adjuster - Calibrated

Here is an extremely functional stainless steel fitting. Adjustment is made by turning the knurled nut. The terminal rod is made captive, therefore it cannot turn and cannot come apart even when fully extended. It produces a "fool proof" adjuster which cannot come apart either by an inexperienced crew or during the vibration of trailering on the road.

Our popular 12 series stay adjuster is now available with a welded plate to accept a Harken 468 micro cam cleat (or similar with 1- 1/16" [27mm] hole spacing). Available in port and starboard configurations.

Use: Part # + CCA-P (or -S) example: 12-104-CCA-P.

CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	THREAD SIZE	LENGTH Closed	LENGTH Open	PIN DIA	SWL
11-100	Jaw/Eye	1/16", 3/32"	1,000 lbs	10-32	5"	7"	3/16"	400 lbs
11-102	Jaw/Swage	*1/16"	1,000 lbs.	10-32	2" adj.		3/16"	400 lbs
11-103	Jaw/Swage	3/32"	1,000 lbs.	10-32	2" adj.		3/16"	400 lbs
12-100	Jaw/Eye	To 5/32"	3,000 lbs.	1/4-28	5 5/8"	8 3/8"	1/4"	1000 lbs
12-104	Jaw/Swage	1/8"	3,000 lbs.	1/4-28	2 3/4" adj.		1/4"	1000 lbs
12-105	Jaw/Swage	5/32"	3,000 lbs.	1/4-28	2 3/4" adj.		1/4"	1000 lbs

*Swage with 3/32" die.

Replacement Knurled Nuts: Order Cat#35-623 for 10-32 thread, Cat#35-624 for 1/4-28 thread.





Shroud Adjuster - Quick Release

Developed for dry sailed one-design dinghies. When the Quick Release pin is pulled, easy adjustment and unrigging can be obtained.

NOTE: Quick Release Pins available - see chart page 53.

CAT. NO.	WIRE TERMINAL PIN	CHAIN PLATE PIN	MAX. WIRE SIZE	PIN TO PIN ADJUSTMENT	SAFE WORKING LOAD
15-212	3/16"	1/4"	1/8"	1 3/4" to 3 5/8"	400 lbs.

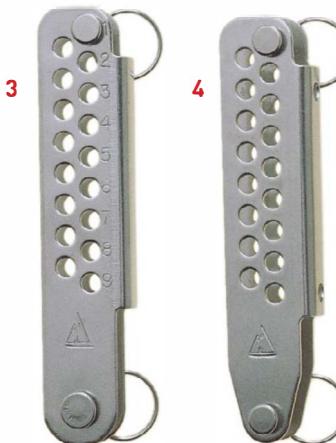


Shroud Adjusters - Single Row Hole

These single row hole adjusters are good for applications where precise tuning is not required.

CAT. NO.	TOTAL ADJ.	INCREMENT	PIN DIAMETER	JAW WIDTH	SWL
1 15-203	3-1/4"	9/64"	3/16"	3/8"	400 lbs
2 15-205*	2 5/8"	3/8"	1/4"	5/16"	1000 lbs

*Calibrated



Shroud Adjusters - Double Row Hole

These double row hole adjusters offer more precise tuning for stays and shrouds.

CAT. NO.	TOTAL ADJ.	INCREMENT	PIN DIAMETER		JAW WIDTH	SWL
			UPPER	LOWER		
3 15-204-1*	2 1/2"	5/32"	3/16"	1/4"	3/8"	400 lbs
4 15-204	2 1/2"	5/32"	3/16"	3/16"	3/8"	400 lbs

photo courtesy of Zim Sailing



JOHNSON MARINE

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Quick Release Levers

The Johnson Hyfield Type Lever has a number of very practical features that have been developed after extensive testing on both high performance multi-hulls and monohulls.

The fitting is rugged, having an ultimate strength of 2500 lbs. A positive stop is provided to prevent jamming fingers between fitting and wire when thrown open under load and the large surface area of the push pad makes it easier to close lever under load. Lever take-up is 2 1/8" to an over-center position and comes with a quick release pin for positive locking. The extender arm may be had in either 1/4" or 5/16" pin size.

This is an essential piece of hardware on Catamaran shrouds to allow the crew to right the boat after a capsize, without it, another boat or extraordinary effort is required.

Trailerable boats up to 26 feet find that a lever on the forestay greatly facilitates stepping and unstepping the mast.

NOTE: Quick Release Pins available - see chart page 53.

CAT. NO.	EXTENDER # OF HOLES	WIRE SIZE	APPROX. BREAKING STRENGTH	PIN DIA	Q.R. THROW	PIN TO PIN	SWL
14-205	3	To 1/8"	2,500 lbs.	1/4"	2-1/4"	7-3/8" min. — 8-3/8" max. in 1/2" increments	1000 lbs
14-206	4	To 5/32"	2,500 lbs.	Ext. 5/16" Chainplate 1/4"	2-1/4"	6-7/8" min. — 8-3/8" max. in 1/2" increments	1000 lbs



Large Quick Release Levers

This new quick release lever is similar in principle to our popular 14-205/206 series. It is larger with an ultimate strength of 4000 lbs. It is supplied with either an extender for a terminal eye or a 5/32" or 3/16" wire swage terminal. Comes complete with a quick release pin for instant throw off. It features an over center lever intended for headstays on trailerable boats. Can also be used for inner forestays on larger boats in the 30 ft. range.

NOTE: Quick Release Pins available - see chart page 53.



CAT. NO.	TYPE	WIRE SIZE	APPROX. BREAKING STRENGTH	PIN DIA	MAX ADJ.	Q.R. THROW	PIN TO PIN CLOSED	SWL
14-200*	1/4-28 R.H. Lug only	1/8", 5/32"	4,000 lbs.	5/16"	2-1/4"	2-5/8"	Pin to Lug Center 6-1/8"	1600 lbs
14-211-5*	5/16-24 R.H. Lug only	3/16"	4,000 lbs.	5/16"	2-1/4"	2-5/8"	Pin to Lug Center 6-1/8"	1600 lbs.
14-210	Extender	5/32", 3/16"	4,000 lbs.	5/16"	—	2-5/8"	9-3/8" min. — 10-7/8" max. in 1/2" increments	1600 lbs
14-211	Swage Term.	5/32"	4,000 lbs.	5/16"	2-1/4"	2-5/8"	Pin to Lug Center 6-1/8"	1600 lbs
14-212	Swage Term.	3/16"	4,000 lbs.	5/16"	2-1/4"	2-5/8"	Pin to Lug Center 6-1/8"	1600 lbs

14-210

* No Terminal

Inner Forestay Lever

After much feedback from our customers, Johnson has brought back a re-designed Inner Forestay Release Lever. The "over center" lever features a new non-fouling locking device. This new lever features: Modular, welded T-316 materials for strength. Two sizes to cover 1/4" thru 3/8" wire sizes. Curved release/takeup handle for safety. The female threaded lug at the top accepts swaged ends, toggle jaws or mechanical fittings and allows for 2-1/4" of adjustment. **Overall length with handle 20"- Quick Release Throw 3".**

Cat #	Pin Size	Wire Size	Breaking Strength	SWL	Length Closed	Length Open	Thread Size	Approx. Weight
54-800	1/2"	Lug Only	10,750	4300	11"	14"	1/2-20	3.5 lbs
54-810	1/2"	1/4"	10,750	4300	11"	14"	1/2-20	4 lbs
54-820	1/2"	9/32"	10,750	4300	11"	14"	1/2-20	4 lbs
54-850	5/8"	Lug Only	14,500	5800	11"	14"	5/8-18	3.5 lbs
54-860	5/8"	5/16"	14,500	5800	11"	14"	5/8-18	4.5 lbs
54-870	5/8"	3/8"	14,500	5800	11"	14"	5/8-18	4.5 lbs



Use: 12-123 (1/2") or
12-124 (5/8") and use
the Quick Release Pin
supplied with your unit.

Optional Rigging Toggle



Redesigned Positive Locking Closure with Quick Pin

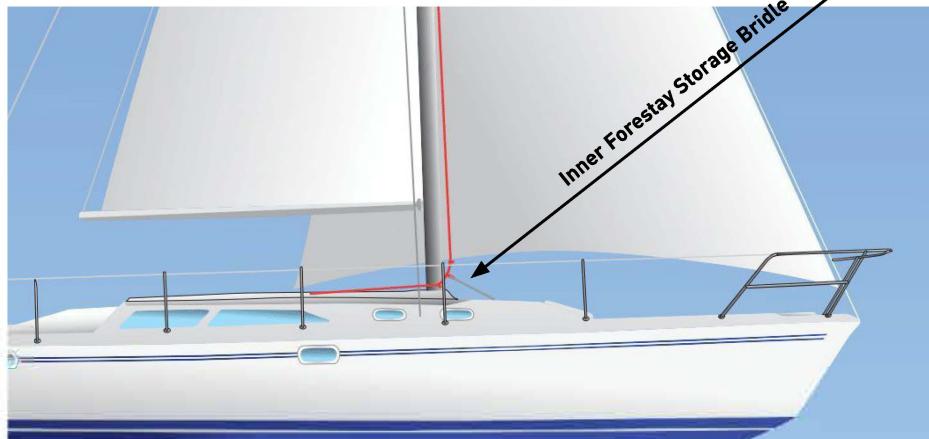


Inner Forestay Storage Bridle

An improvement from our earlier design. Features an overall 12" length, welded 316 stainless plate design with center bracket to attach your tackle to. The end brackets, together with the stainless plates, keep your inner forestay secure while stowed. Center bracket eyelet measures 3/8". For use with up to 1/2" inner forestays.

Inner Forestay Storage Bridle

Cat. No. 49-250



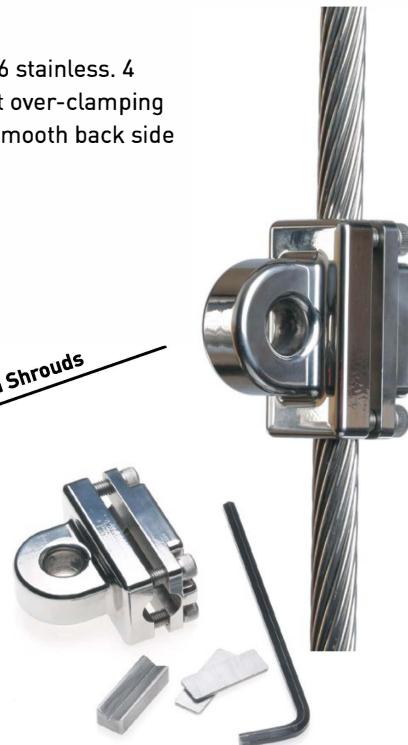
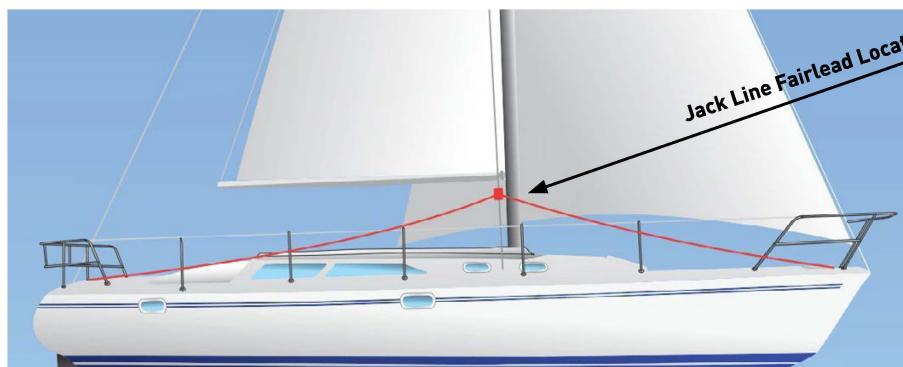
Stainless Jack Line Fairlead

316 STAINLESS BILLET

Finally, a central Jack Line mount to get your Jack Lines off the deck, the preferred way to install allowing for a shorter tether and shorter fall. Mount this new billet 316 stainless fairlead to a shroud 5 or 6 feet above the deck. Run a 3/8" diameter low stretch line from a stern cleat through the fairlead (1/2" dia.) then to a bow cleat. You are then ready to clip your safety harness to the Jack Line.

Fits wire, rod or Dyform shrouds from 5/16" to 1/2". Rugged, CNC machined from billet 316 stainless. 4 1/4"-20 cap screws securely mount the fairlead to your shroud. Designed to be snug without over-clamping or damaging your rigging. Complete kit includes wedge and shims for 5/16" - 1/2" sizes. Smooth back side helps prevent sail handling hang-ups. Measures: 2 3/8" L, 1 5/16" W, 2 1/2" D.

Stainless Jack Line Fairlead

Cat. No. 49-100 **[WEB STORE ONLY]**

Split Backstay Cars

This adjusting car replaces separate blocks and a connecting member. Tandem sheaves eliminate severe flexing of the backstay, providing a neat, thoroughly functional fitting. The 38 Series with Delrin sheaves is intended for boats under 30ft., while the husky 39 Series with aluminum sheaves is intended for boats up to 40 feet.

Note: For maximum car release, use a 1.5 to 1 ratio between backstay base width and car height. Example: If backstay width is 5'-car height should not exceed 7 1/2' to 8' in height off deck. Higher ratios may require manual release with aid of boat hook, etc.

CAT. NO.	FIG. NO.	MAX. WIRE DIA.	DOWNHAUL FITTING
38-201	3	3/16"	SHEAVE ONLY
38-202	1	3/16"	BECKET ONLY
38-203	2	3/16"	SHEAVE & BECKET
39-201	3	1/4"	SHEAVE ONLY
39-202	1	1/4"	BECKET ONLY
39-203	2	1/4"	SHEAVE & BECKET
38-213	38 Series	3/16"	[4] RPL. DELRIN SHEAVES
39-213	39 Series	1/4"	[1] ALUMINUM SHEAVE
X7000	XTreme	3/8"	SHEAVE ONLY



XTreme Duty



Sheave & Becket



Becket Only

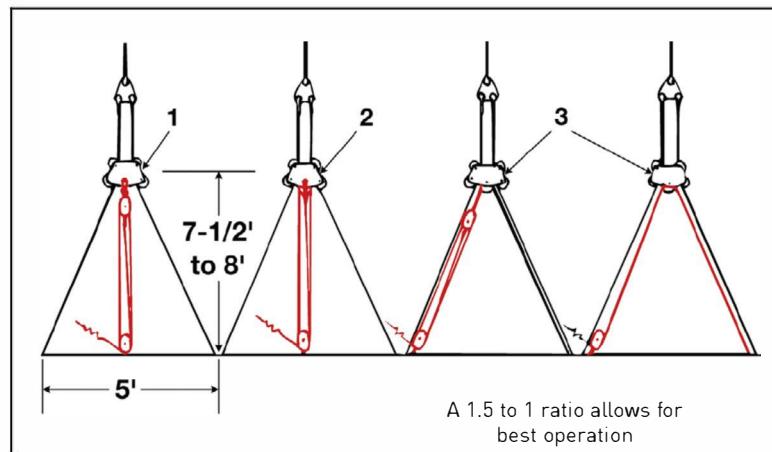


Sheave Only

Replacement Sheaves



EXAMPLE



Patent Number 4224890



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Stay Extenders / Link Plates

These stainless steel plates are designed for extending short stays, or to replace a turnbuckle. Several of these are a must for the ship's kit. All sizes include pins.

CAT. NO.	PIN DIA.	MAX. PIN TO PIN	SAFE WORKING LOAD
16-204	1/4"	3 3/4"	1000 lbs.
16-205	5/16"	4 3/8"	1600 lbs.
16-206	3/8"	5"	2800 lbs.
16-208	1/2"	5-5/8"	4200 lbs.
16-210	5/8"	6-7/8"	5900 lbs.
16-212	3/4"	9"	9000 lbs.

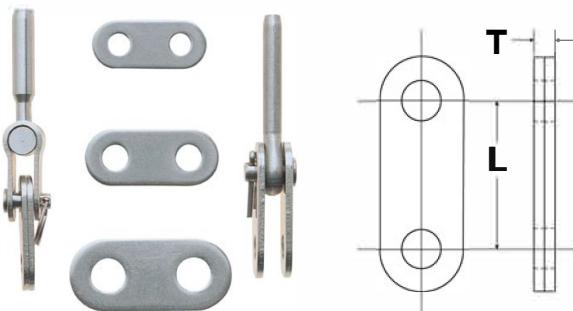


Jaw/Eye Adapter Link Plates

These very useful links come in pairs and will allow you to convert an eye to a jaw or a jaw to an eye.

*Dash numbers have one hole bushed to accommodate dissimilar pin sizes.

Must be used in pairs. Pins not included.



CAT. NO.	PIN DIA.	L	T	SAFE WORKING LOAD
52-124	5/16"	1-5/16"	.185	1600 lbs.
52-125	3/8"	1-1/8"	.250	2800 lbs.
52-126	1/2"	1-5/16"	.280	4200 lbs.
52-127	5/8"	1-5/8"	.370	5900 lbs.
52-128	3/4"	2"	.525	9000 lbs.
52-126-1*	3/8 to 1/2 "	1-5/16"	.280	2800 lbs.
52-127-1*	1/2 to 5/8"	1-5/8"	.370	3500 lbs.

Backstay Diamond Plates - Equilateral

Diamond Plate - Backstay

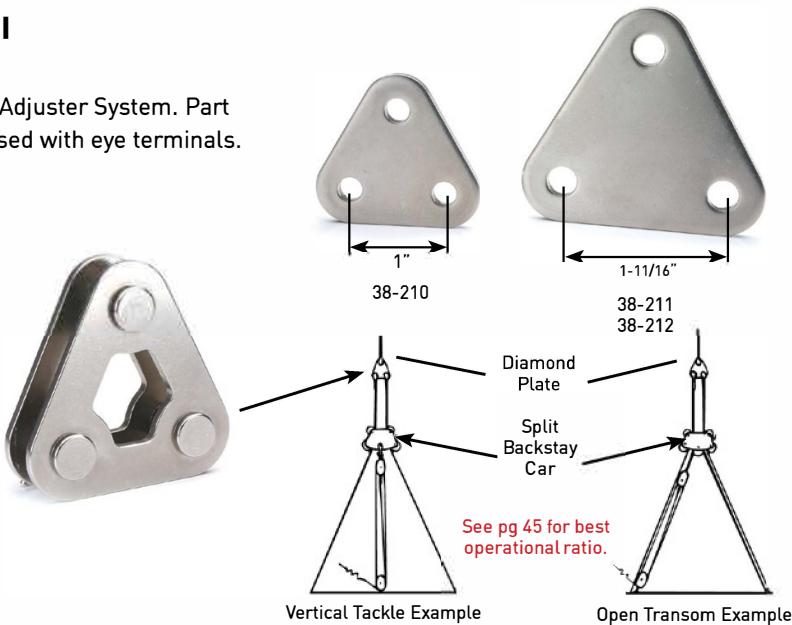
An integral part of the Johnson Marine Split Backstay Adjuster System. Part No. 38-211 & 212 are double plates and may also be used with eye terminals. Pins not included.

CAT. NO.	PIN DIA.	SAFE WORKING LOAD
38-210	1/4"	1000 lbs.
38-211	5/16"	1600 lbs.
38-212	3/8"	2800 lbs.

Large Diamond Plates

This design complements the looks of our new larger backstay car. Comes complete with cotter and clevis pins. T-316 stainless steel.

Must be used in pairs.



CAT. NO.	PIN SIZE TOP HOLE	PIN SIZE BOTTOM HOLE	PLATE THICKNESS	PIN TO PIN L BOTTOM	PIN TO PIN L BOTTOM TO TOP	SAFE WORKING LOAD
X7050	1/2"	1/2"	3/16"	2"	2-1/4"	4200 lbs.
X7051	5/8"	5/8"	3/16"	2-1/4"	2-1/2"	5900 lbs.
X7052	3/4"	5/8"	1/4"	2-1/4"	2-3/4"	9000 lbs.



**Call for OEM
and Bulk
Pricing!**

Marine Eyes & Fork

These marine and MS style eyes and forks are manufactured by Loos and Co. in the USA on the latest CNC machinery. All fittings are T-316 stainless steel.

Marine Eyes - Machine Swage T-316

CAT. NO.	WIRE SIZE	PIN SIZE	THICKNESS	SAFE WORKING LOAD
12-201	3/32"	1/4"	7/32"	400 lbs.
12-202	1/8"	1/4"	7/32"	700 lbs.
12-203	5/32"	5/16"	9/32"	1100 lbs.
12-204	3/16"	3/8"	11/32"	1600 lbs.
12-205	7/32"	7/16"	13/32"	2100 lbs.
12-206	1/4"	1/2"	15/32"	2800 lbs.
12-207	9/32"	1/2"	15/32"	3500 lbs.
12-208	5/16"	5/8"	19/32"	4200 lbs.
12-209	3/8"	5/8"	19/32"	5900 lbs.
12-210	7/16"	3/4"	23/32"	8000 lbs.



Pins Not Included,
see page 51.

MACHINE
MS
SWAGE

MS Style Eyes - Machine Swage T-316

CAT. NO.	WIRE SIZE	PIN SIZE	THICKNESS	SAFE WORKING LOAD
12-211	3/32"	3/16"	1/8"	400 lbs.
12-212	1/8"	3/16"	3/16"	700 lbs.
12-213	5/32"	1/4"	3/16"	1100 lbs.
12-214	3/16"	5/16"	1/4"	1600 lbs.
12-215	7/32"	5/16"	9/32"	2100 lbs.
12-216	1/4"	3/8"	5/16"	2800 lbs.
12-217	9/32"	7/16"	5/16"	3500 lbs.
12-218	5/16"	7/16"	11/32"	4200 lbs.
12-219	3/8"	1/2"	3/8"	5900 lbs.



Pins Not Included ,
see page 51.

MACHINE
MS
SWAGE

MS Style Fork - Machine Swage T-316

CAT. NO.	WIRE SIZE	CLEVIS PIN REQUIRED	OPENING	DEPTH FROM PIN CENTER	SAFE WORKING LOAD
12-221	3/32"	CP-3-9	7/64"	11/16"	400 lbs.
12-222	1/8"	CP-3-13	3/16"	3/4"	700 lbs.
12-223	5/32"	CP-4-13	13/64"	13/16"	1100 lbs.
12-224	3/16"	CP-5-18	17/64"	7/8"	1600 lbs.
12-225	7/32"	CP-5-22	19/64"	1"	2100 lbs.
12-226	1/4"	CP-6-26	5/16"	1-5/64"	2800 lbs.
12-227	9/32"	CP-7-28	21/64"	1-11/64"	3500 lbs.
12-228	5/16"	CP-7-28	23/64"	1-17/64"	4200 lbs.
12-229	3/8"	CP-8-28	3/8"	1-35/64"	5900 lbs.



Pins Not Included,
see page 51.

Toggle Jaws for Machine Swage

This fitting's universal toggle action prevents any adverse bending of wire. Pins included.

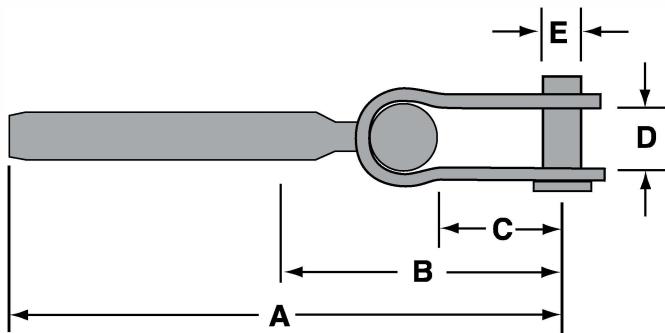
MACHINE
MS
SWAGE



Toggle Nut Style



"T" Toggle Style



CAT. NO.	WIRE SIZE	A	B	C	D	E	F	BEFORE SWAGE DIA. *	AFTER SWAGE DIA. *	SAFE WORKING LOAD
17-203	3/32"	2-3/4"	1-1/2"	11/16"	1/4"	1/4"		.218	.190	1000 lbs
17-204	1/8"	3"	1-1/2"	11/16"	1/4"	1/4"		.250	.219	1000 lbs
17-214**	1/8"	2-7/8"	1-5/16"	3/4"	1/4"	1/4"	5/8"	.250	.219	1000 lbs
17-205	5/32"	3-1/4"	1-1/2"	11/16"	1/4"	1/4"		.297	.250	1000 lbs
17-205-2	5/32"	3-3/4"	2-1/8"	1"	5/16"	5/16"		.297	.250	1600 lbs
17-215-2**	5/32"	4-1/2"	2-5/8"	1"	5/16"	5/16"	3/4"	.297	.250	1600 lbs
17-206	3/16"	4-1/4"	2-1/4"	7/8"	3/8"	3/8"		.359	.313	1600 lbs
17-216**	3/16"	4-3/4"	2-5/8"	1"	5/16"	5/16"		.359	.313	1600 lbs
17-207	7/32"	4-1/2"	2-1/4"	7/8"	3/8"	3/8"	7/8"	.427	.375	2800 lbs
17-208	1/4"	4-3/4"	2-1/4"	7/8"	3/8"	3/8"		.494	.438	2800 lbs
17-209	1/4"	5-1/4"	2-5/8"	1-1/16"	1/2"	1/2"		.494	.438	2800 lbs
17-210	9/32"	5-1/2"	2-7/8"	1-1/16"	1/2"	1/2"	1-1/8"	.563	.500	3500 lbs
17-211	5/16"	5-3/4"	2-7/8"	1-1/16"	1/2"	1/2"		.635	.563	4200 lbs
17-212	5/16"	6-1/2"	3-1/4"	1-3/16"	5/8"	5/8"	1-3/8"	.635	.563	4200 lbs
17-213	3/8"	7"	3-1/4"	1-5/16"	5/8"	5/8"		.703	.625	5900 lbs

** With T-Toggle Jaw

*All tolerances are: +.000 - .005 Dimensions shown are inches.

NOTE: Before and After swage dimensions are mil spec and conform to both our life line and rigging fittings with regard to all aspects except cable depth in fittings. (See chart on page 12 ARCHITECTURAL side of the catalog.) The primary difference between life line and rigging fittings is the cable depth, although other factors exist. Always use rigging fittings when in doubt or wherever high load applications exist. Never exceed the safe working load.



Turnbuckle Bodies T-316/Silicon Bronze

CAT. NO.	THREAD SIZE	OVERALL LENGTH	STYLE
34-601	10-32	3-1/2"	Tubular
34-602	1/4-28	4-1/2"	Tubular
34-602 S	1/4-28	3"	Tubular-Shortie
34-603	5/16-24	5-1/4"	Tubular
34-604	5/16-24	5-1/4"	Tubular-Slotted
34-605	3/8-24	5-1/2"	Tubular
34-606	3/8-24	5-1/2"	Tubular-Slotted
34-607	1/2-20	7"	Tubular-Slotted
34-608	5/8-18	8-1/2"	Tubular-Slotted

CAT. NO.	THREAD SIZE	OVERALL LENGTH	STYLE
34-609	1/4-28	4-1/2"	Tubular-Slotted
34-610	1/4-28	4-7/8"	Open Body
34-611	5/16-24	4-3/4"	Open Body
34-612	3/8-24	5-1/4"	Open Body
34-613	1/2-20	6-1/2"	Open Body
34-614	5/8-18	7-3/4"	Open Body
34-607-2	1/2-20	7"	Tubular
34-608-2	5/8-18	8-1/2"	Tubular



Use for Life Line or Rigging Applications.

Turnbuckle / Deck Toggle Jaws T-316

CAT. NO.	THREAD SIZE	STYLE
33-601*	10-32 R.H.	T TOGGLE
33-602*	10-32 L.H.	T TOGGLE
33-615	1/4-28 R.H.	T TOGGLE
33-616	1/4-28 L.H.	T TOGGLE
33-605	1/4-28 R.H.	TOGGLE NUT
33-606	1/4-28 L.H.	TOGGLE NUT
33-607	5/16-24 R.H.	TOGGLE NUT
33-608	5/16-24 L.H.	TOGGLE NUT
33-609	3/8-24 R.H.	TOGGLE NUT
33-610	3/8-24 L.H.	TOGGLE NUT
33-615-1	1/4-28 R.H.	DECK TOGGLE
33-616-1	1/4-28 L.H.	DECK TOGGLE
33-615*	1/4-28 R.H.	SHORTIE
33-616*	1/4-28 L.H.	SHORTIE
33-615-1S	1/4-28 R.H.	SHORTIE
33-616-1S	1/4-28 L.H.	SHORTIE

CAT. NO.	THREAD SIZE	STYLE
33-617	5/16-24 R.H.	T TOGGLE
33-618	5/16-24 L.H.	T TOGGLE
33-617-1	5/16-24 R.H.	DECK TOGGLE
33-618-1	5/16-24 L.H.	DECK TOGGLE
33-619	3/8-24 R.H.	T TOGGLE
33-620	3/8-24 L.H.	T TOGGLE
33-611	1/2-20 R.H.	TOGGLE NUT
33-612	1/2-20 L.H.	TOGGLE NUT
33-613	5/8-18 R.H.	TOGGLE NUT
33-614	5/8-18 L.H.	TOGGLE NUT
33-603**	1/4-28 R.H.	BCKSTY ADJ.
33-604**	1/4-28 L.H.	BCKSTY ADJ.

* Also available in Deck Toggle Style.

* For 01 Series Backstay Adjuster Only
(Includes Square Nut)



Use for Life Line or Rigging Applications.

Locking Nuts



CAT. NO.	THREAD SIZE	CAT. # USED ON
35-601	10-32 R.H.	03 & 11
35-602	10-32 L.H.	03
35-603	1/4-28 R.H.	04 & 19
35-604	1/4-28 L.H.	04, 19 & 21
35-605	5/16-24 R.H.	05 & 07
35-606	5/16-24 L.H.	05 & 07
35-607	3/8-24 R.H.	06 & 08

CAT. NO.	THREAD SIZE	CAT. # USED ON
35-608	3/8-24 L.H.	06 & 08
35-609	1/2-20 R.H.	General
35-610	1/2-20 L.H.	General
35-611	5/8-18 R.H.	General
35-612	5/8-18 L.H.	General

See full strength nuts on page 33 ARCHITECTURAL side of the catalog.



JOHNSON MARINE

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Wire End Terminals for Machine Swaging

CAT. NO.	THREAD SIZE X LENGTH	WIRE SIZE	CAT # USED ON
32-604	10-32 L.H. x 1-7/8	1/16" †	03
32-605	10-32 L.H. x 1-7/8	3/32"	03 & 19
32-607	1/4-28 L.H. x 2-1/2	3/32"	04 & 19
32-608	1/4-28 L.H. x 2-1/2	1/8"	04 & 19
32-609	1/4-28 L.H. x 2-1/2	5/32"	04 & 19
32-610	1/4-28 R.H. x 2-1/2	3/32"	04(RH) & 42
32-611	1/4-28 R.H. x 2-1/2	1/8"	04(RH) & 42
32-612	1/4-28 R.H. x 2-1/2	5/32"	04(RH) & 42
32-613	10-32 R.H. x 3	1/16" †	11
32-614	10-32 R.H. x 3	3/32"	11
32-616	1/4-28 R.H. x 3 3/4	1/8"	12-104
32-617	1/4-28 R.H. x 3 3/4	5/32"	12-105
32-618	5/16-24 R.H. x 2 3/4	5/32"	05,07 & 43
32-619	5/16-24 R.H. x 2 3/4	3/16"	05,07 & 43
32-620	3/8-24 R.H. x 3	3/16"	06,08 & 44
32-621	3/8-24 R.H. x 3	7/32"	06,08 & 44
32-622	3/8-24 R.H. x 3	1/4"	06,08 & 44
32-626	1/2-20 R.H. x 3 1/2	1/4"	09/45
32-627	1/2-20 R.H. x 3 1/2	9/32"	09/45
32-628	1/2-20 R.H. x 3 1/2	5/16"	09/45
32-629	5/8-18 R.H. x 4 1/4	5/16"	10/47
32-630	5/8-18 R.H. x 4 1/4	3/8"	10/47

† Swage with 3/32" die



MACHINE
MS
SWAGE

Extra Long

02 Series



01 Series

Wire End Terminals for Backstay Adjusters*

CAT. NO.	THREAD SIZE X LENGTH	WIRE SIZE	CAT # USED ON
32-601	1/4-28 L.H. x 2-1/2	3/32"	01
32-602	1/4-28 L.H. x 2-1/2	1/8"	01
32-603	1/4-28 L.H. x 2-1/2	5/32"	01
32-623	3/8-24 R.H. x 4	3/16"	02
32-624	3/8-24 R.H. x 4	7/32"	02
32-625	3/8-24 R.H. x 4	1/4"	02

* For Backstay Adjuster Only (1/4-28 Size Includes Square Nut)

EXTRA LONG Wire End Terminals for Machine Swaging

CAT. NO.	THREAD SIZE	WIRE SIZE	ADDED LENGTH
32-631	5/16-24 R.H.	5/32"	1-1/2"
32-632	5/16-24 R.H.	3/16"	1-3/4"
32-633	3/8-24 R.H.	3/16"	1-3/4"
32-634	3/8-24 R.H.	7/32"	2-1/4"
32-635	3/8-24 R.H.	1/4"	2-1/2"
32-636	1/2-20 R.H.	1/4"	2-1/2"

Techno•TIP

One of the most neglected parts on a sailboat are the Life Line and Rigging Turnbuckles. Turnbuckles need to be kept free of dirt and salt by rinsing with fresh water periodically. A good marine lubricant like Johnson Sealube or equivalent should be applied to the threads. The lubricant will provide corrosion protection and keep the turnbuckles turning freely. Never straighten a bent threaded stud, always replace, as a bent threaded stud has been weakened after bending.

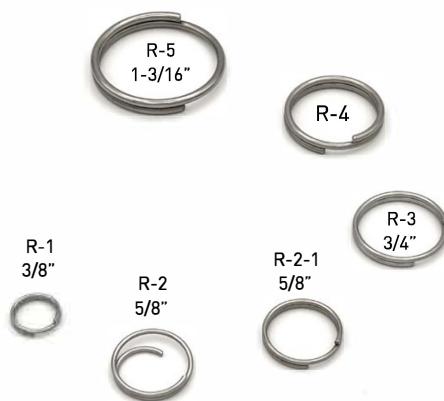
Stainless Steel Clevis Pins

*Available in units of 100 Add -100 to CAT. NO. (Ex. CP-3-9-100)

CAT. NO.	DIA.	GRIP LGTH.	USAGE	CAT. NO. *	PCS/PACK
CP-3-9	3/16"	9/32"	Ser. 11 AN667-2,667-3	CPR-3-9-P	4
CP-3-13	3/16"	13/32"	Ser. 03 AN667-4	CPR-3-13-P	4
CP-3-17	3/16"	17/32"	Ser. 15	CPR-3-17-P	4
CP-3-32	3/16"	1"	Special	CPR-3-32-P	2
CP-4-13	1/4"	13/32"	AN667-5	CPR-4-13-P	4
CP-4-16	1/4"	1/2"	Ser. 01, 04, 19, 42 ETC.	CPR-4-16-P	4
CP-4-20	1/4"	5/8"	Special & 12-320	CPR-4-20-P	2
CP-4-24	1/4"	3/4"	Special	CPR-4-24-P	2
CP-4-40	1/4"	1-1/4"	Special	CPR-4-40-P	2
CP-5-18	5/16"	9/16"	Ser. 05, 07 AN667-6	CPR-5-18-P	2
CP-5-22	5/16"	11/16"	AN667-7	CPR-5-22-P	2
CP-5-24	5/16"	3/4"	Special & 12-321	CPR-5-24-P	2
CP-5-44	5/16"	1-3/8"	Special	CPR-5-44-P	2
CP-6-20	3/8"	5/8"	Ser. 06, 08 & 44	CP-6-20-P	2
CP-6-26	3/8"	13/16"	AN667-8	CP-6-26-P	2
CP-6-32	3/8"	15/16"	Special & 12-322	CP-6-32-P	1
CP-6-52	3/8"	1-5/8"	Special	CP-6-52-P	1
CP-7-28	7/16"	7/8"	AN667-9 & 10	CP-7-28-P	1
CP-7-40	7/16"	1-1/4"	Special & 12-326	CP-7-40-P	1
CP-7-52	7/16"	1-5/8"	Special	CP-7-52-P	1
CP-8-24	1/2"	3/4"	Ser. 09	CP-8-24-P	1
CP-8-32	1/2"	1"	AN667-12	CP-8-32-P	1
CP-8-40	1/2"	1-3/8"	Special & 12-323	---	---
CP-10-34	5/8"	1-1/16"	Ser. 10	CP-10-34-P	1
CP-10-40	5/8"	1-1/4"	Special	CP-10-40-P	1
CP-10-48	5/8"	1-1/2"	Special & 12-324	---	---
CP-12-48	3/4"	1-3/8"	Special & 12-325	---	---
CP-12-48-1	3/4"	1-7/8"	Special & 12-325	---	---

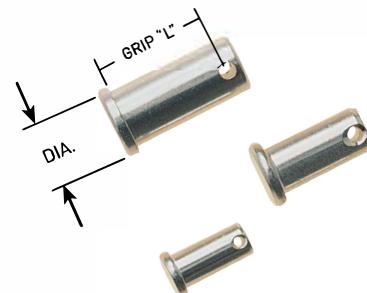
*CP - with Cotter Pins; CPR - with Ring Pins

Circular Pins



Sizes shown are I.D.

BLISTER PACKS (Complete with Pins*)



Bronze Clevis Pins



CAT. NO.	DIA.	GRIP LENGTH
CP-6-26B	3/8"	13/16"
CP-8-32B	1/2"	1"
CP-10-40B	5/8"	1-1/4"
CP-12-48B	3/4"	1-3/8"

Circular Pins - Blister Pack

CAT. NO.	USAGE	QTY
R-1-100	For 3/16"	100
R-2-100*	3/16" & 1/4" Pins	100
R-2-1-100	3/16" & 1/4" Pins	100
R-3-100	1/4" & 3/8" Pins	100
R-5-100	1/2" & 5/8" Pins	100

CAT. NO.	USAGE	QTY
R-1-P	For 3/16"	20
R-2-P*	3/16" & 1/4" Pins	20
R-2-1-P	3/16" & 1/4" Pins	20
R-3-P	1/4" & 3/8" Pins	20
R-4-P	Large Pelican Hook	8
R-5-P	1/2" & 5/8" Pins	8



NOTE: Available Monel Cotter Pins are highlighted in red

Stainless Steel Cotter Pins

*Available in units of 100 Add -100 to CAT. NO. (Ex. C-2-2-100)

BLISTER PACKS

CAT. NO.	DIA. LENGTH	USAGE	CAT. NO.	PCS per PACK
C-2-2	1/16 X 1/2"		C-2-2-P	30
C-2-2M	1/16 X 1/2"		---	---
C-2-3	1/16 X 3/4"		C-2-3-P	22
C-2-4	1/16 X 1"		C-2-4-P	18
C-2-5	1/16 X 1-1/4"		C-2-5-P	14
C-2-6	1/16 X 1-1/2"		---	---
C-2-7	1/16 X 1-3/4"		---	---
C-3-3	3/32 x 3/4"		C-3-3-P	11
C-3-3M	3/32 x 3/4"		---	---
C-3-4	3/32 x 1"		C-3-4-P	9
C-3-5	3/32 x 1-1/4"	5/16" and 3/8" Pins	---	---
C-3-6	3/32 x 1-1/2"		C-3-6-P	7
C-3-8	3/32 x 2"		C-3-8-P	5
C-3-10	3/32 x 2-1/2"		---	---
C-4-4	1/8 x 1"		C-4-4-P	6
C-4-4M	1/8 x 1"		---	---
C-4-5	1/8 x 1-1/4"		---	---
C-4-6	1/8 x 1-1/2"	7/16" and 1/2" Pins	C-4-6-P	4
C-4-7	1/8 x 1-3/4"		---	---
C-4-8	1/8 x 2"		C-4-8-P	3
C-4-10	1/8 x 2-1/2"		---	---
C-5-5	5/32 x 1-1/4"		C-5-5-P	3
C-5-5M	5/32 x 1-1/4"		---	---
C-5-7	5/32 x 1-3/4"		C-5-7-P	2
C-5-8	5/32 x 2"	5/8" and 3/4" Pins	---	---
C-5-9	5/32 x 2-1/4"		C-5-9-P	2
C-5-10	5/32 x 2-1/2"		---	---
C-6-6	3/16 x 1-1/2"		C-6-6-P	2
C-6-10	3/16 x 2-1/4"		C-6-10-P	2
C-6-12	3/16 x 3"	7/8" Pins	---	---
SPECIAL POLYPACK COTTER PIN ASSORTMENT			C-A-P	26

Bronze Clevis Pins



CAT. NO.	DIA.	GRIP LENGTH
CP-6-26B	3/8"	13/16"
CP-8-32B	1/2"	1"
CP-10-40B	5/8"	1-1/4"
CP-12-48B	3/4"	1-3/8"

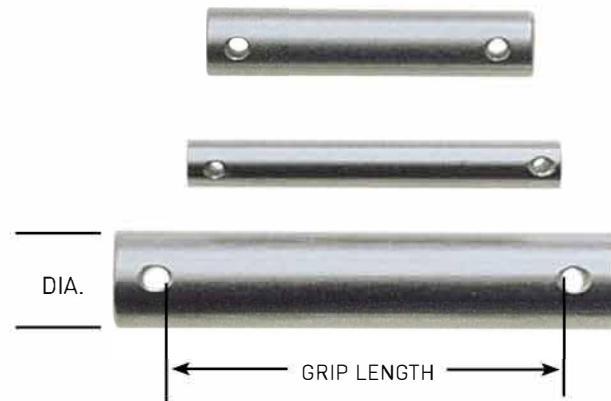
Silicon Bronze Cotter Pins



CAT. NO.	DIA. X LENGTH	USAGE
C-3-3B	3/32 x 3/4"	5/16 and 3/8" Pins
C-4-4B	1/8 x 1"	7/16 and 1/2" Pins
C-5-5B	5/32 x 1-1/4"	5/8" Pins
C-6-6B	3/16 x 1-1/2"	3/4" Pins



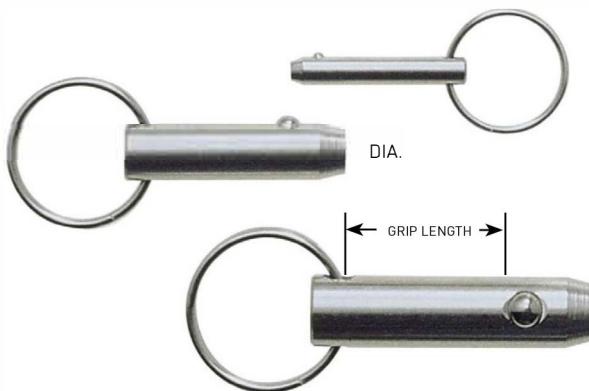
Stainless Steel Rigging Pins



CAT. NO.	DIA.	GRIP LGTH
RP-4-1-1/2	1/4"	1-1/2"
RP-4-2	1/4"	2"
RP-4-2-1/2	1/4"	2-1/2"
RP-5-2	5/16"	2"
RP-5-3-1/2	5/16"	3-1/2"
RP-6-2	3/8"	2"
RP-6-2-5/8	3/8"	2-5/8"
RP-7-1-1/2	7/16"	1-1/2"
RP-7-2	7/16"	2"
RP-7-2-1/2	7/16"	2-1/2"
RP-8-2	1/2"	2"
RP-8-2-1/2	1/2"	2-1/2"
RP-8-3	1/2"	3"
RP-10-1-5/8	5/8"	1-5/8"
RP-10-2-1/2	5/8"	2-1/2"

Stainless Steel Quick Release Pins (Ball Type)

CAT. NO.	DIA.	GRIP LENGTH	USAGE
QR-3-20	3/16"	9/16"	15-212
QR-4-32	1/4"	1"	14-205{6}
QR-4-40	1/4"	1-1/4"	14-210 - 212
QR-6-26	3/8"	13/16"	02 Series
QR-8-32	1/2"	1"	46-501 - 501-2
QR-10-40	5/8"	1-1/4"	46-500 - 200-2



Locking Rings

Designed for use with Johnson Slotted Tubular Bodies. Will not work in Open Body Turnbuckles. Sold in pairs.

CAT. NO.	USAGE	BODY O.D.
36-601	07 Series	1/2"
36-602	08 Series	5/8"
36-603	09 Series	7/8"
36-604	10 Series	1"
36-605	04 Series	7/16"



Safety Pins

CAT. NO.	CAT. USAGE	PCS
SP-1	3/16 & 1/4" Pins	each
SP-1-P	3/16 & 1/4" Pins	10
SP-1-100	3/16 & 1/4" Pins	100

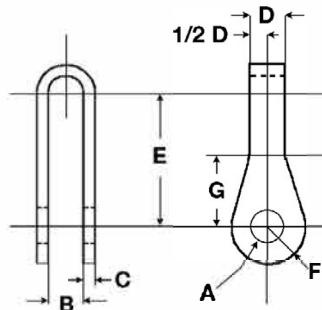


Rigging Toggles

These stainless steel rigging toggles are essential to prevent misalignment of rigid jaw turnbuckles. They are also used as a simple way to save rigging that was made too short. Ultimate strength exceeds the corresponding clevis pin. All sizes include pins.

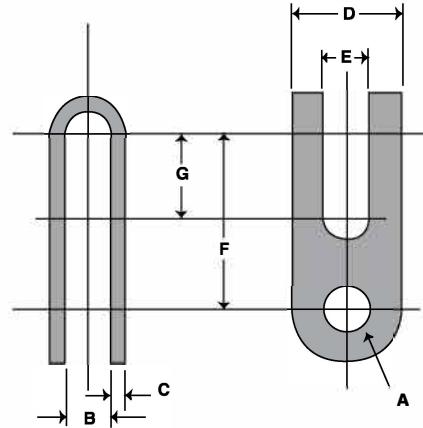


CAT. NO.	A	B	C	D	E	F	G	SAFE WORKING LOAD
12-120	1/4"	1/4"	.094	5/16"	1"	5/16"	5/8"	1000 lbs
12-121	5/16"	5/16"	.094	19/64"	1-1/4"	11/32"	5/8"	1600 lbs
12-122	3/8"	3/8"	.141	23/64"	1-5/8"	13/32"	3/4"	2800 lbs
12-126	7/16"	7/16"	.165	27/64"	1-11/16"	15/32"	7/8"	3500 lbs
12-123	1/2"	1/2"	.187	31/64"	1-7/8"	17/32"	1"	4200 lbs
12-124	5/8"	5/8"	1/4"	39/64"	2-1/4"	11/16"	1-1/4"	5900 lbs
12-125	3/4"	3/4"	1/4"	47/64"	2-3/4"	13/16"	1-1/2"	9000 lbs



Double Jaw Toggles

These double jaw toggles are used to facilitate toggling action when used with marine eyes and mechanical fittings. These toggles are available in 7 sizes from 1/4"- 3/4" pin sizes. All sizes include pins.



CAT. NO.	A	B	C	D	E	F	G	SAFE WORKING LOAD	Upper Replacement Washer	Upper Replacement Clevis Pin w/ Cotter
12-320	1/4"	1/4"	13GA	5/8"	1/4"	1-1/16"	1/2"	1000 lbs	320W	CP-4-20c
12-321	5/16"	5/16"	13GA	3/4"	5/16"	1-1/4"	5/8"	1600 lbs	321W	CP-5-24c
12-322	3/8"	3/8"	10GA	1"	3/8"	1-1/12"	3/4"	2800 lbs	322W	CP-6-34c
12-326	7/16"	7/16"	8GA	1-1/8"	7/16"	1-3/4"	7/8"	3500 lbs	326W	CP-7-40c
12-323	1/2"	1/2"	3/16"	1-1/4"	1/2"	2"	1"	4200 lbs	323W	CP-8-40c
12-324	5/8"	5/8"	1/4"	1-1/2"	5/8"	2-1/2"	1-1/4"	5900 lbs	324W	CP-10-48c
12-325	3/4"	3/4"	1/4"	1-3/4"	3/4"	3"	1-1/2"	9000 lbs	325W	CP-12-48-1c



STA-LOK®

STA-LOK terminals are a simple mechanical method of terminating wire ropes. They offer a range of high quality, high performance fittings for 1 x 19, 7 x 7, 7 x 19 and Dyform wire ropes. The STA-LOK terminal produces 100% of the rated breaking strength of the wire rope and is approved by Lloyds Register of Shipping. All terminals are manufactured from polished T-316 stainless steel and are reusable (with new wedge).

Please note: Price includes the former and wedge. Each order must specify cable construction.



Fork Terminal



Stud Terminal



Eye Terminal

FORK TERMINALS			
CAT. NO.	WIRE SIZE	INSIDE W.	PIN SIZE
SL-F-4	1/8"	39/64"	3/16"
SL-F-5	5/32"	1/4"	1/4"
SL-F-6	3/16"	5/16"	5/16"
SL-F-7	7/32"	3/8"	7/16"
SL-F-8	1/4"	3/8"	7/16"
SL-F-9	9/32"	27/67"	7/16"
SL-F-10	5/16"	55/64"	1/2"
SL-F-12	3/8"	55/64"	5/8"

Larger sizes available - please inquire
1/8" & 7/32" sizes will not work on
7x cables

STUD TERMINALS: RH UNF			
CAT. NO.	WIRE SIZE	THREAD SIZE	THREAD LGTH
SL-S-4	1/8"	1/4"	2-1/32"
SL-S-5	5/32"	5/16"	2-1/32"
SL-S-6	3/16"	5/16"	2-1/8"
SL-S-6B	3/16"	3/8"	2-5/8"
SL-S-7	7/32"	3/8"	2-5/8"
SL-S-8	1/4"	3/8"	2-5/8"
SL-S-8B	1/4"	1/2"	3-1/4"
SL-S-9	9/32"	1/2"	3-1/4"
SL-S-10	5/16"	1/2"	3-1/4"
SL-S-12	3/8"	5/8"	3-3/4"

Larger sizes available - please inquire 1/8" & 7/32"
sizes will not work on 7x cables

EYE TERMINALS		
CAT. NO.	WIRE SIZE	PIN SIZE
SL-E-4	1/8"	1/4"
SL-E-5	5/32"	5/16"
SL-E-6	3/16"	3/8"
SL-E-7	7/32"	3/8"
SL-E-8	1/4"	3/8"
SL-E-8B	1/4"	1/2"
SL-E-9	9/32"	1/2"
SL-E-10	5/16"	1/2"
SL-E-12	3/8"	5/8"

Larger sizes available - please inquire
1/8" & 7/32" sizes will not work on
7x cables



NOW MATE YOUR
STA-LOK STUD
TO A JOHNSON
TURNBUCKLE!
(Open Bodies also
available - Right or
Left Hand Jaws)



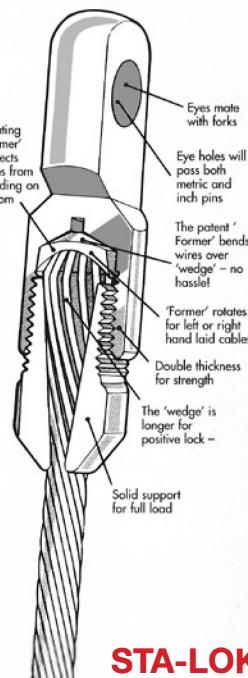
Backstay Insulator

2/3 TURNBUCKLES WITH LEFT HAND JAW			
CAT. NO.	THREAD SIZE	PIN SIZE	STYLE
04-60	1/4"	1/4"	Closed
05-60	5/16"	5/16"	Closed
06-50	3/8"	3/8"	Closed
09-50	1/2"	1/2"	Closed
10-50	5/8"	5/8"	Closed

Additional styles available - please inquire.

BACKSTAY INSULATORS For 1x19 Cable Only			
CAT. NO.	WIRE SIZE	BREAK STRENGTH	LGTH
SL-BI-7	7/v	9000 lbs.	7-1/2"
SL-BI-8	1/4"	9000 lbs.	7-1/2"
SL-BI-9	9/32"	15000 lbs.	8"
SL-BI-10	5/16"	15000 lbs.	8"
SL-BI-12	3/8"	219000 lbs.	9"

Larger sizes available - please inquire.



STA-LOK®

Loos Tension Gauges

Loos Economy Tension Gauges

The Loos "Economy Model" tension gauges take the guesswork out of cable tension adjustment. It's especially designed for accurate, repeatable tuning of a sailboat's standing rigging/cable railings. Manufactured of rugged anodized aluminum, these gauges are corrosion-resistant and will provide years of service.

PART NO.	DESCRIPTION
LTG-91A	Cable Sizes: 3/32", 1/8", 5/32"
LTG-90B	Cable Sizes: 3/16", 7/32", 1/4", 9/32"

LTG-91A



LTG-90B



Loos Professional Tension Gauges

The Loos "Professional Model" tension gauges will provide an increase in accuracy and convenience of use when compared to our popular standard economy gauges. The professional gauge may be hooked on the wire and will remain in position while the tension is adjusted.

PART NO.	DESCRIPTION
LTG-1	Cable Sizes: 3/32", 1/8", 5/32"
LTG-2	Cable Sizes: 3/16", 7/32", 1/4"
LTG-3	Cable Sizes: 1/4", 9/32", 5/16", 3/8"

LTG-1



LTG-2



LTG-3



Note: The intended use of these gauges is to be used on 302/304 1x19 Stainless Steel cable in appropriate sizes.



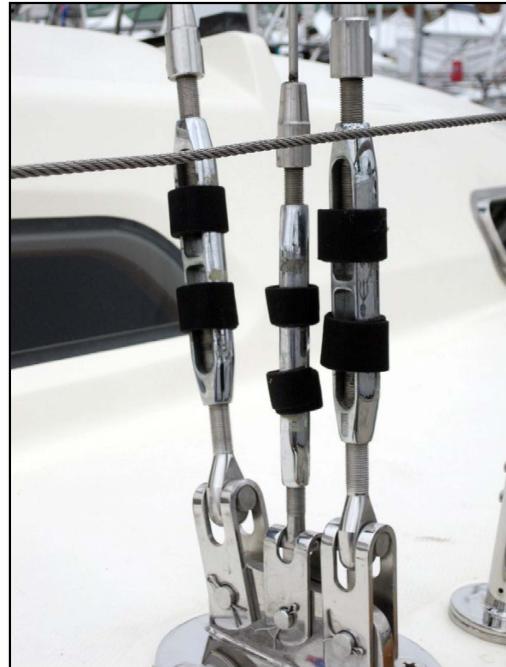
**Johnson has a full line of boating accessories to make
your boating safer and easier...**



Wrap Pins Hook and Loop Pin Locking Devices for Open Body Turnbuckles

Wrap pins are neat hook and loop locking devices used to secure turnbuckles without messing with unruly cotter pins. Just make your adjustment, push the pin attached to the hook and loop through the hole and wrap the hook and loop strip around the turnbuckle body. Works on open body turnbuckles and Johnson's positive locking, slotted tubular turnbuckles. Three sizes work on 1/4"-1/2" threaded turnbuckles. Order by thread diameter.

CAT. NO.	DESCRIPTION
WRAPC2-P	Pair 1/16" dia. for 1/4" threads
WRAPC2-20	20 Pack 1/16" dia. for 1/4" threads
WRAPC3-P	Pair 3/32" dia. for 5/16" & 3/8" threads
WRAPC3-20	20 Pack 3/32" dia. for 5/16" & 3/8" threads
WRAPC4-P	Pair 1/8" dia. for 7/16", 1/2" & 5/8" threads
WRAPC4-20	20 Pack 1/8" dia. for 7/16", 1/2" & 5/8" threads



Johnson Riggers Grade Rigging & Mast Boot Tape - by Rubbaweld®

Johnson has brought back the self-amalgamating rigging tape that started the craze in the 70's. Our tape works well at covering up those exposed cotter pins or any sharp objects that may harm sails, lines or people. When used as directed, the tape actually bonds to itself and makes one solid piece. Can also be used on hot objects for an emergency repair on radiator hoses, etc. Rigging tape is sold in black or white 1" wide by 15' long and in a 4" wide by 10' long white mast boot tape. All sizes are packaged in a reusable, retail clamshell pack with color header and instructions.

CAT. NO.	DESCRIPTION
50-115	1" x 15' rigging tape, WHITE
50-115B	1" x 15' rigging tape, BLACK
50-405	4" X 10' mast boot tape, WHITE

Case sizes available at quantity discount.



“Captain Hook” Chain Snubber

Our “Captain Hook” Chain Snubber can be used a few different ways:

1. Use the claw and attached line to relieve tension from your windlass while anchored by snubbing the chain overboard and tying off the line to a cleat or samson post on deck.
2. Use the snubber on deck for security to hold the chain in your anchor roller and tying off on a cleat while under way for piece of mind.
3. Relieve the tension on the windlass (like in 1) by attaching the snubber to the chain in the anchor roller and pulling back and tying off securely.

All T-316 stainless. Versions with 3-strand nylon line include professional eye splice.

NOTE: Always keep bitter end of anchor chain secure in windlass while using chain snubber.

CAT. NO.	DESCRIPTION
46-465	Small Snubber Hook for 1/4 & 5/16" Chain with 12' of 1/2" 3 Strand Nylon
46-465-5	Small Snubber Hook Only (3/8" T-316 SS stock)
46-475	Large Snubber Hook for 3/8" & 1/2" Chain with 15' of 5/8" 3 Strand Nylon
46-475-5	Large Snubber Hook Only (1/2" T-316 SS stock)

Anchor Chain Tensioners

These fittings will securely tension and hold the anchor in the bow roller channel. They will free up use of the bow cleat and prepare the anchor for sea condition assuring you peace of mind. This fitting is not designed to take the strain of the rode of a boat at anchor. “Single Hook” style has an overall length is 12”, the threaded hook has 1½” of adjustment for ease of installation.

Our new “Claw Hook” design features a shorter overall length than our current design and a “devils claw” type hook. The new claw design will grab 1/4”, 5/16” and 3/8” chain. The toggled claw enables you to grab the chain quickly and easily. Two 1/4” mounting holes are provided in the base of the unit and the claw has 1-1/2” of finite adjustment. The overall length closed is adjustable between 11” and 13” with a 2-1/8” throw or quick release. The handle/lever is secured when closed with a ball type QR pin attached with a lanyard.



Single Hook Style



Claw Hook Style

CAT. NO.	DESCRIPTION
46-250-1	Single-Hook Tensioner for 5/16" Chain
46-250-2	Single-Hook Tensioner for 3/8" Chain
46-450	Claw-Hook Tensioner for 1/4", 5/16" and 3/8" Chain

Toe Rail Folding Cleat

The toe rail folding cleat makes a perfect movable, mid-ship cleat for spring lines, etc. This cleat is mountable on all aluminum toe rails. The rail is protected by a silicon rubber pad for rattle free installation. The cleat folds out of the way when not in use, the husky 3/8" dia. cleat assures strength. The complete unit is T-316 stainless. Fits most symmetric and asymmetric aluminum toe rails.

Safe Working Load = 2000 lbs.

Toe Rail Folding Cleat

Cat. No. 48-510



Shroud Cleat

All stainless steel construction, compatible with your stainless steel rigging. Will not corrode. The JOHNSON SHROUD CLEAT is easily attached to 5/32" thru 3/8" dia. wire or rod. Ideal for flag, radar reflector and steaming shape halyards with an eye for attaching a snap shackle. Low profile, projects only 1/2" from shroud.

Shroud Cleat

Cat. No. 40-518



Hinged Pad Eyes

Johnson Pad Eyes folds flat when not in use. The "d-ring" gives with the load unlike rigid pad eyes; materially reducing the load on the fastenings. A friction drag insures that the eye stays in position and is rattle free. T-316 Stainless Steel construction. Supplied with backing plate.



1/4" Hinged Pad Eye	Cat. No. 48-580
5/16" Hinged Pad Eye	Cat. No. 48-585
3/8" Hinged Pad Eye	Cat. No. 48-590
1/2" Hinged Pad Eye	Cat. No. 48-595

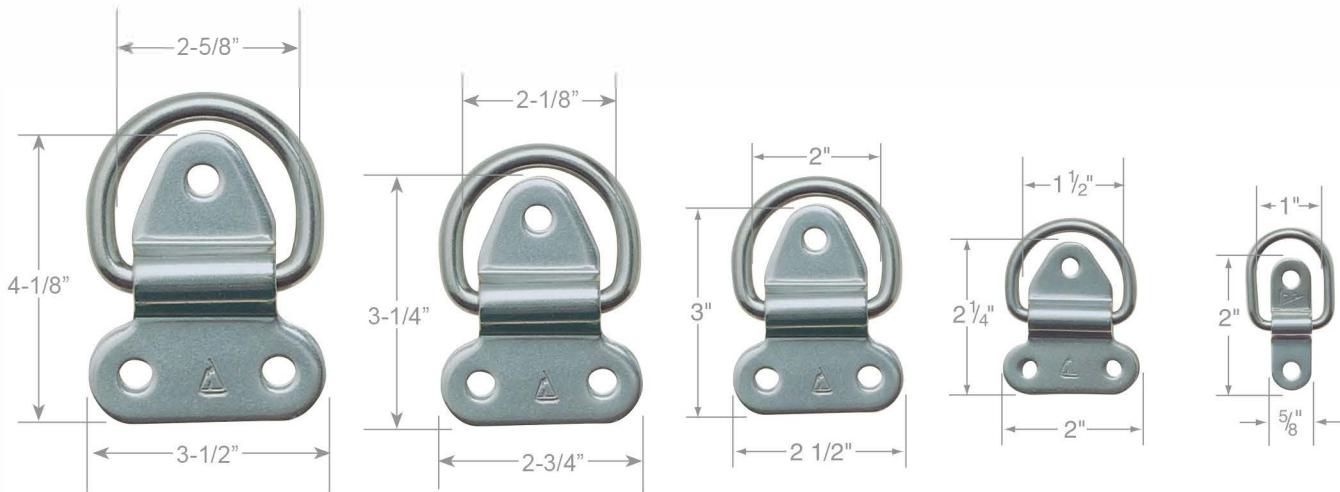


Mini 3/16" Hinged Pad Eye

This pad eye is a smaller version of our popular #48-580 hinged pad eye. This unit is suitable for awnings and many other tie down applications. Working load should not exceed 400 lbs. Material is all T-316 stainless. Fastens with (2) 1/4" bolts (not supplied).

3/16" Hinged Pad Eye	Cat. No. 48-570
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Pad Eye Dimensions



1/2" Hinged Pad Eye
Safe Working Load: 3500 lbs

3/8" Hinged Pad Eye
Safe Working Load: 2500 lbs

5/16" Hinged Pad Eye
Safe Working Load: 1500 lbs

1/4" Hinged Pad Eye
Safe Working Load: 1000 lbs

3/16" Hinged Pad Eye
Safe Working Load: 400 lbs

40 Series Mounting Bracket

Our 40 series base bracket will fit round rails 7/8" – 1" with the supplied clamp and fit up to 1-1/2" rails with a larger clamp. This extremely versatile fitting can be mounted vertically or horizontally. Use it to mount: Solar panels, drink holders and other accessories on your boat. The two outer holes are tapped for 10-32 fasteners on 1" center and the middle hole has a clearance for 1/4" fasteners.

404 Series Mounting Bracket

Cat. No. 40-5-2



Rail Mount Roller Furling Fairlead with a Twist

We have added a 360 degree swivel feature to our popular furling fairlead in s/s bushed version. This fitting can be used in areas where articulation is required, reducing friction in the system.

Rail Mount Furling Fairlead

Cat. No. 40-503



Roller Furling Fairlead

This versatile fitting may be mounted on stanchion or base from * 7/8" to 1" diameter and allows control line to be located either inside or outside of stanchions. The fitting is easily installed and eliminates the need of drilling holes. Fairleads are available with either a phenolic bull's-eye or bushed for wire.

*Will accommodate larger sizes with longer clamp.

Phenolic Bull's-eye

Cat. No. 40-501

S.S. Bushed Bull's-eye

Cat. No. 40-502

Roller Furling Bail

This fitting complements our 40-501/502 fairlead. It easily mounts to stanchion or base from * 7/8" to 1" diameter and will receive your favorite block, swivel or fixed eye. Use for final lead at cockpit and at bow if lead is severe.

*Will accommodate larger sizes with longer clamp.

Roller Furling Bail

Cat. No. 40-505



Roller Furling Bail with
Block attached

Rotation Plate

This plate allows 45° of rotation in either vertical or horizontal plane. The plate mounts between the bracket and accessory unit on any of our "40" series mounts.

Rotation Plate

Cat. No. 40-513-4



Add-A-Cleat

A versatile cleat easily mounts to a stanchion or rail *7/8" and 1" diameter. Construction consists of a husky stainless steel bracket and clamp with a 4 1/2" nylon coated aluminum cleat. Use them for fenders and flag halyards. Installation is easily made with a screwdriver.

*Will accommodate larger sizes with longer clamp.

Add-A-Cleat

Cat. No. 40-506





Flag Halyard Kit

Spreader Halyard Kit

Everything you need to rig a spreader flag halyard. 40 ft. of 3/16" polyester line, block with wire rope clamp, cleat with wire rope clamp and (2) bronze snaps. Easily attaches to 5/32" thru 3/8" Dia. wire or rod. Includes 40 ft. of polyester line, block with bail and shroud cleat.

Spreader Halyard Kit

Cat. No. 40-530

Sealube - Turnbuckle Lubricant

Space age synthetic lubricant especially formulated for turnbuckles or any high bearing load, low speed application. Will carry higher bearing loads than any other lubricant. Provides powerful resistance to corrosion of the host metal. Water resistant and long lasting.

1 oz. bottle Cat. No. 48-540

Case/24 bottles Cat. No. 48-541



Sole Mate - Ladder Treads

Comfortable foot pads easily installed on your stern swim ladder. No cutting, drilling or fitting. Made of no maintenance ABS plastic in a wood tone with stainless steel mounting hardware.

Install in pairs on each step or alternately. For welded ladders made of 1" diameter tubing only. 5" long.



Ladder Tread Cat. No. 48-560

Ladder Tread Pair Cat. No. 48-561

Pin and Parts Kits

Cotter, Ring and Clevis Pin Parts Kit

Cat. No. 37-503



Kit Contents

CATALOG #	DESCRIPTION	QUANTITY
CP-3-9	Clevis Pin, Dia. 3/16", Grip 9/32"	30 Pack
CP-3-13	Clevis Pin, Dia. 3/16", Grip 13/32"	30 Pack
CP-3-17	Clevis Pin, Dia. 3/16", Grip 17/32"	10 Pack
CP-4-13	Clevis Pin, Dia. 1/4", Grip 13/32"	6 Pack
CP-4-16	Clevis Pin, Dia. 1/4", Grip 1/2"	30 Pack
CP-5-18	Clevis Pin, Dia. 5/16", Grip 9/16"	6 Pack
CP-5-22	Clevis Pin, Dia. 5/16", Grip 11/16"	6 Pack
CP-6-20	Clevis Pin, Dia. 3/8", Grip 5/8"	2 Pack
CP-6-26	Clevis Pin, Dia. 3/8", Grip 13/16"	6 Pack
CP-7-28	Clevis Pin, Dia. 7/16", Grip 7/8"	2 Pack
CP-8-24	Clevis Pin, Dia. 1/2", Grip 3/4"	1 Pack
CP-8-32	Clevis Pin, Dia. 1/2", Grip 1"	2 Pack
R-2	Circular Pins, 3/16" & 1/4"	50 Pack
SP-1	Safety Pins, 3/16" & 1/4"	10 Pack
C-2-2	Cotter Pin, 1/16"x1/2"	100 Pack
C-3-3	Cotter Pin, 3/32"x3/4"	50 Pack
C-4-4	Cotter Pin, 1/8"x1"	25 Pack
C-5-5	Cotter Pin, 5/32"x1 1/4"	10 Pack

Small Boat Kit

Cat. No. 37-504



Kit Contents

CATALOG #	DESCRIPTION	QUANTITY
CP-3-17	Clevis Pin Dia. 3/16" GL 17/32"	6
CP-4-16	Clevis Pin Dia. 1/4" GL 1/2"	6
CP-5-22	Clevis Pin Dia. 5/16" GL 11/16"	4
R-2	Circular Pin 3/16" & 1/4" w/ Starter	10
C-3-3	Cotter Pins 3/32" x 3/4" Type 316SS	10
SP-1	Safety Pin 3/16" & 1/4"	6

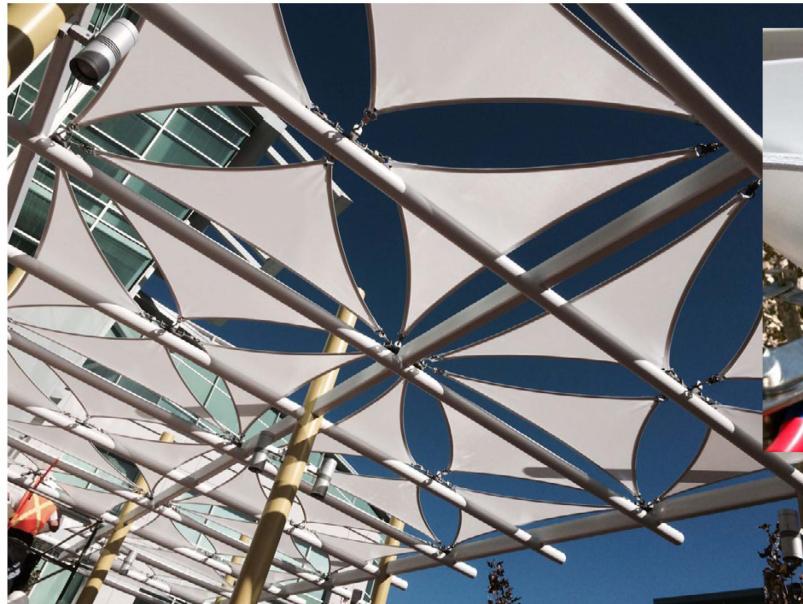
Custom Kits

Cat. No. 37-Cus

Planning an owners rendezvous, special club event or anytime you may require a personalized pin kit? Any quantities ok, just let us know what the kit will contain, and what the top label is to say and JOHNSON can make it happen. Call for further information and pricing.



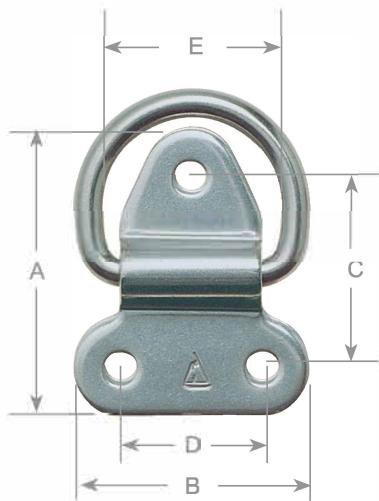
Industrial Fittings and Turnbuckles



Google Campus - Mountain View, CA
Fabricator: Duvall Design Inc., West Rockport, ME

Hinged Pad Eyes

Johnson Pad Eyes folds flat when not in use. The eyes gives with the load unlike rigid pad eyes; materially reducing the load on the fastenings. A friction drag insures that the eye stays in position and is rattle free. T-316 Stainless Steel construction. Supplied with backing plate.



Hinged Mini Pad Eye

Catalog No. 48-570



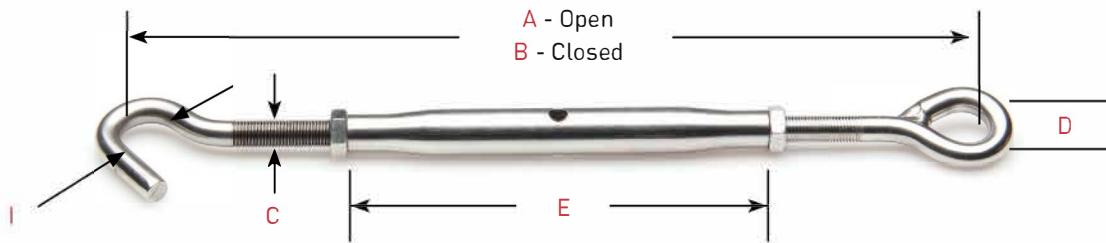
3/16" Hinged Pad Eye
Safe Working Load: 400 lbs

CAT. NO.	SAFE WORKING LOAD	A	B	C	D	E	F
48-580	1,000 LBS	2-1/4"	2"	1-1/2"	1-1/4"	1-1/2"	1/4"
48-585	1,500 LBS	3"	2-1/2"	2"	1-1/2"	2"	5/16"
48-590	2,500 LBS	3-1/4"	2-3/4"	2-1/8"	1-5/8"	2-1/8"	3/8"
48-595	3,500 LBS	4-1/8"	3-1/2"	2-5/8"	2"	2-5/8"	1/2"



Eye-to-Hook Stainless T-316 Tubular Turnbuckles

Check Nut Locking with welded, wire formed eye.

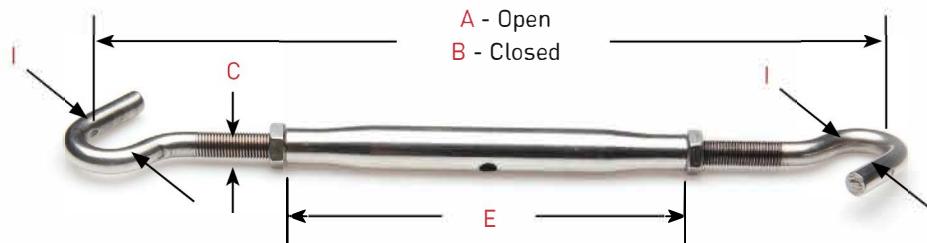


CAT. NO.	TYPE	*SAFE WORKING LOAD	A LENGTH OPEN	B LENGTH CLOSED	C THREAD SIZE	D EYE I.D.	E BODY LENGTH	F HOOK OPENING	WT lb	WT oz
03-610	Eye/Hook	85 lbs.	8-3/4"	6-1/4"	10-32	5/16"	3-1/2"	1/4"	3	
04-610	Eye/Hook	195 lbs	10-1/4"	7-1/4"	1/4-28	3/8"	4-1/2"	3/8"	5	
05-610	Eye/Hook	290 lbs.	11-1/2"	8-3/4"	5/16-24	1/2"	5-1/8"	1/2"	8	
06-610	Eye/Hook	405 lbs.	13"	9"	3/8-24	5/8"	5-3/8"	5/8"	14	
09-610	Eye/Hook	770 lbs.	15-1/2"	10-3/4"	1/2-20	3/4"	7"	3/4"	2	0
10-610	Eye/Hook	1,235 lbs.	18"	13"	5/8-18	7/8"	8-5/8"	7/8"	4	0

*These values are based on an open hook design which are not heat-treated or forged.

Hook-to-Hook Stainless T-316 Tubular Turnbuckles

Check Nut Locking

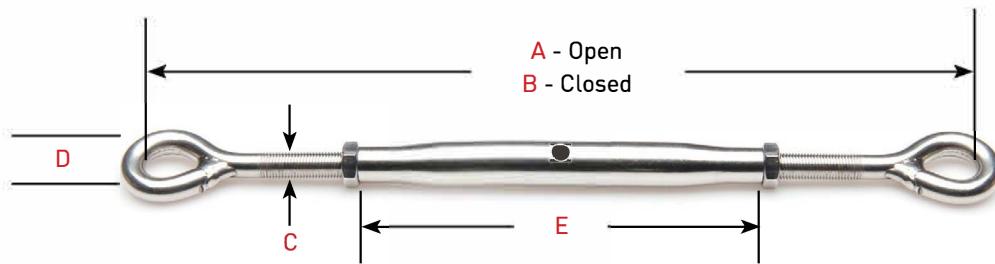


CAT. NO.	TYPE	*SAFE WORKING LOAD	A LENGTH OPEN	B LENGTH CLOSED	C THREAD SIZE	E BODY LENGTH	F HOOK OPENING	WT lb	WT oz
03-655	Hook/Hook	85 lbs.	9"	6-1/2"	10-32	3-1/2"	1/4"	3	
04-655	Hook/Hook	195 lbs	10-1/2"	7-1/2"	1/4-28	4-1/2"	3/8"	5	
05-655	Hook/Hook	290 lbs.	11-3/4"	9"	5/16-24	5-1/8"	1/2"	8	
06-655	Hook/Hook	405 lbs.	13-1/2"	9-3/4"	3/8-24	5-3/8"	5/8"	14	
09-655	Hook/Hook	770 lbs.	15-3/4"	11"	1/2-20	7"	3/4"	2	0
10-655	Hook/Hook	1,235 lbs.	18-1/2"	13-1/2"	5/8-18	8-5/8"	7/8"	4	0

*These values are based on an open hook design which are not heat-treated or forged.

Eye-to-Eye T-316 Stainless Tubular Turnbuckles

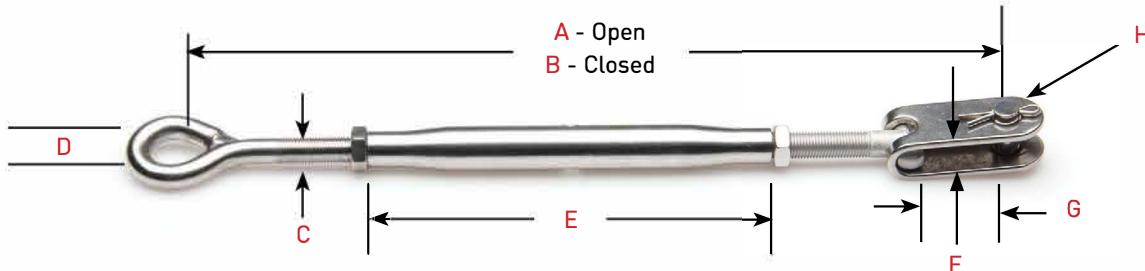
Check Nut Locking with welded, wire formed eyes.



CAT. NO.	TYPE	APPROX BREAKING STRENGTH	SAFE WORKING LOAD	LENGTH OPEN	LENGTH CLOSED	THREAD SIZE	EYE I.D.	BODY LENGTH	WT lb	WT oz
03-155	Eye/Eye	1,000 lbs	400 lbs.	8-1/2"	6"	10-32	5/16"	3-1/2"		3
04-155	Eye/Eye	2,500 lbs.	1000 lbs	10"	7"	1/4-28	3/8"	4-1/2"		5
05-155	Eye/Eye	4,000 lbs.	1600 lbs.	11-1/4"	8-1/2"	5/16-24	1/2"	5-1/8"		8
06-155	Eye/Eye	7,000 lbs.	2800 lbs.	12-3/4"	8-3/4"	3/8-24	5/8"	5-3/8"	0	14
09-155	Eye/Eye	10,500 lbs.	4200 lbs.	15-1/4"	10-1/2"	1/2-20	3/4"	7"	2	0
10-155	Eye/Eye	14,800 lbs.	5900 lbs.	17-3/4"	12-3/4"	5/8-18	7/8"	8-5/8"	4	0

Eye-to-Jaw T-316 Stainless Tubular Turnbuckles

Check Nut Locking with welded, wire formed eye.

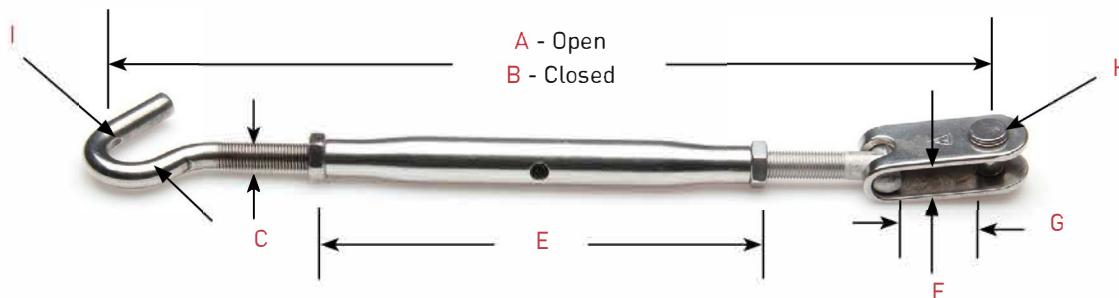


CAT. NO.	TYPE	APPROX BREAKING STRENGTH	SAFE WORKING LOAD	LENGTH OPEN	LENGTH CLOSED	THREAD SIZE	EYE I.D.	BODY LENGTH	JAW OPENING	JAW THROAT	PIN DIA	WT lb	WT oz
03-150	Eye to Jaw	1,000 lbs	400 lbs.	9"	6-1/2"	10-32	5/16"	3-1/2"	3/16"	3/4"	3/16"		3
04-150	Eye to Jaw	2,500 lbs.	1000 lbs	10-1/2"	7-1/2"	1/4-28	3/8"	4-1/2"	1/4"	4/4"	1/4"		5
05-150	Eye to Jaw	4,000 lbs.	1600 lbs.	11-3/4"	9"	5/16-24	1/2"	5-1/8"	5/16"	1"	5/16"		8
06-150	Eye to Jaw	7,000 lbs.	2800 lbs.	13-1/2"	9-3/4"	3/8-24	5/8"	5-3/8"	3/8"	1-1/8"	3/8"		14
09-150	Eye to Jaw	10,500 lbs.	4200 lbs.	15-3/4"	11"	1/2-20	3/4"	7"	1/2"	1-1/16"	1/2"	2	0
10-150	Eye to Jaw	14,800 lbs.	5900 lbs.	18-1/2"	13-1/2"	5/8-18	7/8"	8-5/8"	5/8"	1-3/8"	5/8"	4	0



Hook-to-Jaw Stainless T-316 Tubular Turnbuckles

Check Nut Locking

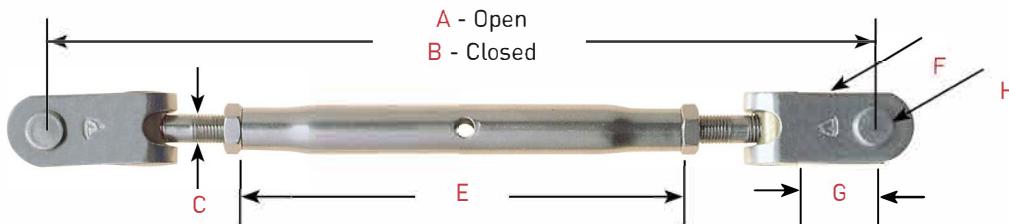


CAT. NO.	TYPE	*SAFE WORKING LOAD	A LENGTH OPEN	B LENGTH CLOSED	C THREAD SIZE	E BODY LENGTH	F JAW OPENING	G JAW THROAT	H PIN DIA	I HOOK OPENING	WT lb	WT oz
03-650	Hook/Jaw	85 lbs.	9-1/4"	6-3/4"	10-32	3-1/2"	3/16"	3/4"	3/16"	1/4"	3	
04-650	Hook/Jaw	195 lbs	10-3/4"	7-3/4"	1/4-28	4-1/2"	1/4"	3/4"	1/4"	3/8"	5	
05-650	Hook/Jaw	290 lbs.	12"	9-1/4"	5/16-24	5-1/8"	5/16"	1"	5/16"	1/2"	8	
06-650	Hook/Jaw	405 lbs.	13-3/4"	10"	3/8-24	5-3/8"	3/8"	1-1/8"	3/8"	5/8"	14	
09-650	Hook/Jaw	770 lbs.	16"	11-1/4"	1/2-20	7"	1/2"	1-1/16"	1/2"	3/4"	2	0
10-650	Hook/Jaw	1,235 lbs.	18-3/4"	13-3/4"	5/8-18	8-5/8"	5/8"	1-3/8"	5/8"	7/8"	4	0

*These values are based on an open hook design which are not heat-treated or forged.

Jaw-to-Jaw Stainless T-316 Tubular Turnbuckles

Check Nut Locking



CAT. NO.	TYPE	APPROX BREAKING STRENGTH	SAFE WORKING LOAD	PIN TO PIN LENGTH OPEN	PIN TO PIN LENGTH CLOSED	C THREAD SIZE	E BODY LENGTH	F JAW OPENING	G JAW THROAT	H PIN DIA	WT lb	WT oz
03-110**	Jaw/Jaw	1,000 lbs	400 lbs.	8-3/4"	6"	10-32	3-1/2"	3/16"	3/4"	3/16"	2.5	
04-100	Jaw/Jaw	2,500 lbs.	1000 lbs	11"	7-1/2"	1/4-28	4-1/2"	1/4"	3/4"	1/4"	5	
04-110**	Jaw/Jaw	2,500 lbs.	1000 lbs	11"	7-1/2"	1/4-28	4-1/2"	1/4"	1"	1/4"	5	
04-110S**	Jaw/Jaw	2,500 lbs.	1000 lbs	8-1/4"	6"	1/4-28	3"	1/4"	1-1/8"	1/4"	5	
05-110**	Jaw/Jaw	4,000 lbs.	1600 lbs.	12-1/4"	8-5/8"	5/16-24	5-1/8"	5/16"	1-1/16"	5/16"	1	8
06-110**	Jaw/Jaw	7,000 lbs.	2800 lbs.	13-3/4"	9-3/4"	3/8-24	5-5/8"	5/8"	1-3/8"	3/8"	3	14
09-100-2	Jaw/Jaw	10,500 lbs.	4200 lbs.	16-3/4"	12"	1/2-20	7"	3/8"		1/2"	1	12
10-100-2	Jaw/Jaw	14,800 lbs.	5900 lbs.	19"	14"	5/8-18	8-5/8"	7/8"		5/8"	3	10

**Jaw with "T" Toggle Construction. All others have bronze toggle nuts to prevent galling under high load conditions.



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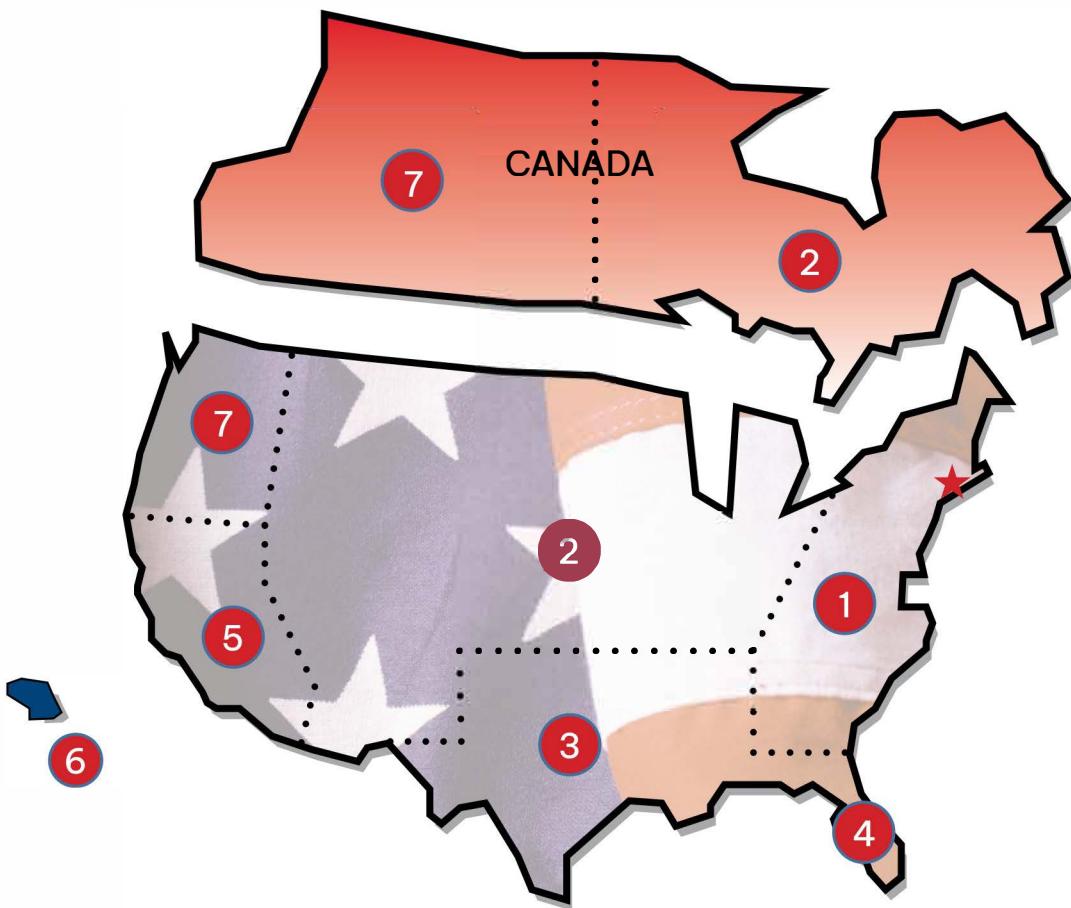
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