VAN BEEST

GREEN PIN®
PRODUCT CATALOGUE

IMPERIAL

GP
Green Pin®

KEY ICONS

Certificates

Depending on the type of product and certificate availability for a certain product, the below mentioned certificates are used in this catalogue. For more information see page 15.

Type 2.1	Works certificate to EN 10204	2.1
Type 2.2	Works certificate to EN 10204	2.2
Type 3.1	Inspection certificate to EN 10204	3.1
Type MTC a	Manufacturer test certificate	MTC [a]
Type MTC b	Manufacturer test certificate	MTC [b]
Type LROS	Proofload Statement	LROS
Type MPI a	Non-destructive testing report	MPI [a]
Type MPI b	Non-destructive testing report	MPI [b]
Type US a	Non-destructive testing report	US [a]
Type US b	Non-destructive testing report	US [b]
Type DNV 2.7-1 a	Type Approval certificate to DNV - ST - E271/E273	DNV 2.7-1 [a]
Type DNV 2.7-1 b	Type Approval certificate to DNV - ST - E271/E273	DNV 2.7-1 [b]
Type DNV CG3	Certificate Proof load witnessed and issued by DNV	DNV CG3
Type DNV 0377	Type Approval certificate to DNV - ST 0377 (former DNV 2.22)	DNV 0377
Type DNV 0378	Type Approval certificate to DNV - ST 0378 (former DNV 2.22)	DNV 0378
Type NYTEK / NS 9415	Type Approval certificate to NYTEK-regulation and NS 9415	DNV NS 9415
Type DGUV	DGUV Type approval certificate to EN 1677	DGUV
Type CE IIA	CE declaration of conformity	CE IIA
Type CE IIB	CE declaration of incorporation	CE IIB
Type BL	Break Load test certificate	BL
Type ABS PDA	Certificate of Product Design Assessment Approval	ABS PDA
Type ABS MA	Certificate of Manufacturing Assessment Approval	ABS MA

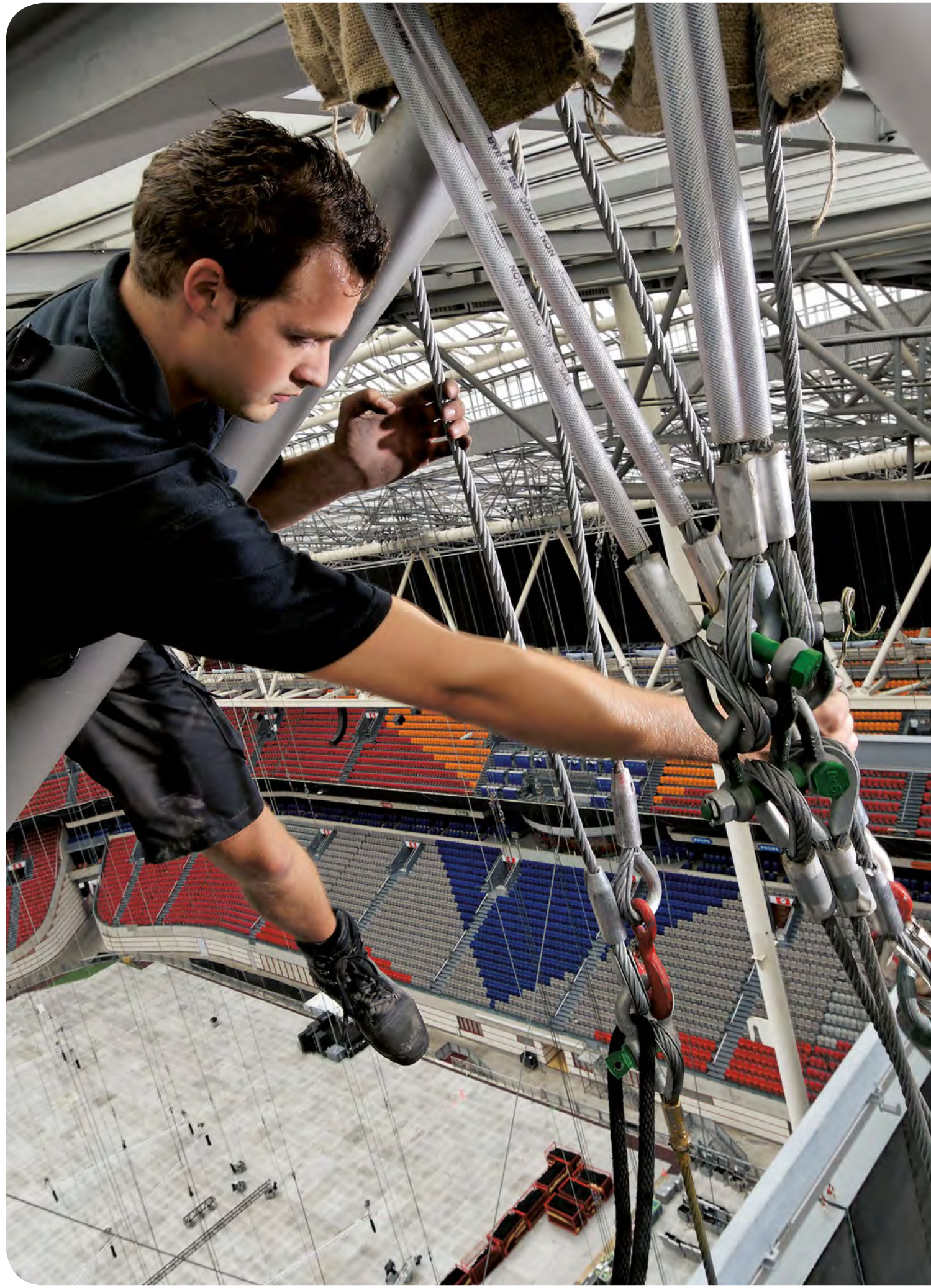
Conditions

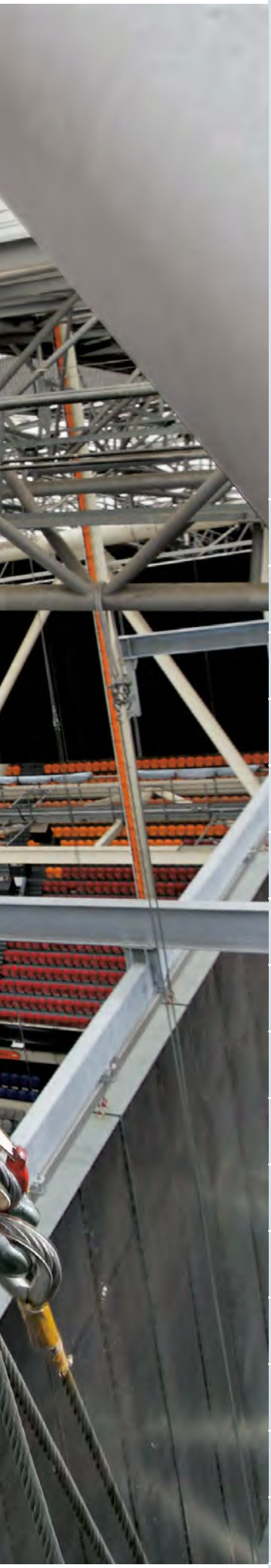
Certificate types 2.1, 2.2, 3.1, MTC a, DNV 2.7-1 a, DNV 2.7-1 b, DNV 0377, DNV 0378, DNV NYTEK / NS 9415, DGUV, ABS PDA, ABS MA and CE can be supplied at no extra charge. For all other certificates, additional costs will be charged.

Other

RFID Tag	RFID
CAD drawings	CAD
More info	INFO

Complementary product	C





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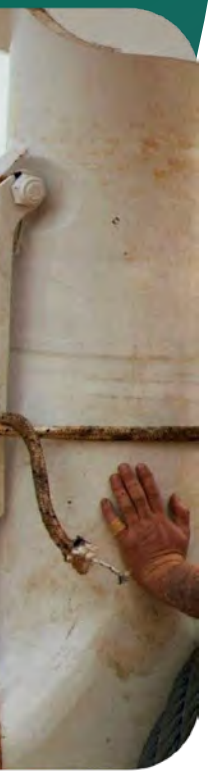
WELCOME TO THE WORLD OF GREEN PIN®



THE CENTREPIECE OF RIGGING

Welcome to the world of Green Pin®, the leading brand for premium quality lifting and lashing equipment. Leading, but modest. We know our role, the place of our Green Pin® products in your bigger picture. And that is right in the centre of your rigging. The centre of safety. The centre of reliability. And the centre of responsibility. Because we know that Green Pin® products are often part of extremely large and complex projects.

Being part of project that come with great risks and great interests to people and products at the same time, great responsibility is required. Taking that responsibility is key to Green Pin®. We want to reassure our customers by always providing products of the highest quality, as we have done for over a hundred years. Our quality is always 100 %, but guaranteeing a 99 % availability of our products is just as essential to us.

ALWAYS IN THE CENTRE OF RIGGING

Green Pin® combines innovative, high-quality products with the quickest delivery and the best customer support. The best lifting and lashing equipment developed with a clear vision of what you need. Produced with raw materials from trustworthy suppliers, at our state-of-the-art production facilities. Facilities that produce products with minimal margins of error compared to other production methods. These Green Pin® products are available all over the world by one of our 1000 distributors. We make sure that we are always ready to meet the demands of the most complex lifting projects in the world.

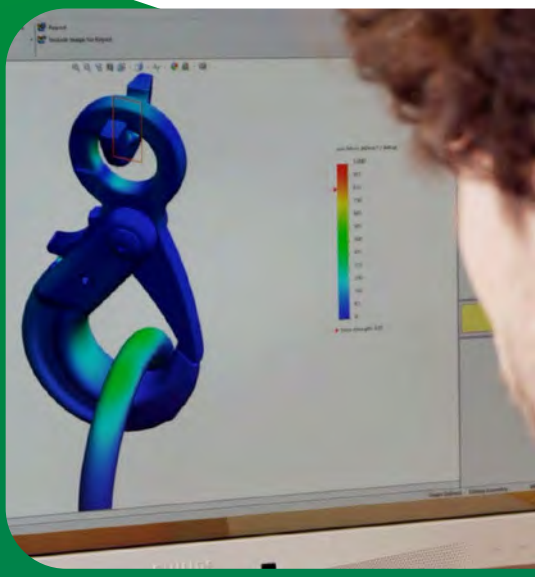
OVER 1000 DISTRIBUTORS IN MORE THAN 100 COUNTRIES STOCK GREEN PIN® PRODUCTS

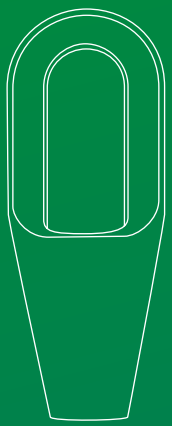
RELY ON THE BEST EQUIPMENT AND SUPPORT. GUARANTEED

The core, of the Green Pin® brand is quality. Green Pin® products are better designed, developed, engineered, produced, packed, delivered, and serviced. When it comes to quality, Green Pin® will not settle for less than best in breed. So, all our raw materials come from highest qualified suppliers who guarantee full traceability. Our steel is sourced from leading, fully certified European mills. Green Pin® is all about quality. That quality is the centrepiece of our brand, and our promise to you is we will never let you down. You can trust us to be the centrepiece of your rigging.

YOU GET THE BEST

- CAD-drawings and technical documentation that are distinguishing by their accuracy;
- A technical helpdesk that provides comprehensive answers swiftly;
- Technical training to provide insights into the benefits of our products and the different ways to apply them.





THE GREEN PIN® HISTORY

Green Pin® can trace its origins back to 1922. In Sliedrecht, which is located right at the heart of the Dutch maritime industry, blacksmith Dirk van Beest started producing components for dredging. He developed the shackles that would later be branded as Green Pin®. Van Beest's company grew quickly, in line with the expansion of the Dutch dredging and maritime industry.

Today, Green Pin® is part of the Royal Van Beest Group and is headquartered in The Netherlands with branches in the United States, France, Germany, Spain and Brazil.

2022

1922

COMPLEMENTARY PRODUCTS

In addition to the Green Pin® product range of chain and rope fittings, Green Pin®'s corporate parent Royal Van Beest offers complementary products (such as wire rope thimbles, sleeves, general hardware, etc.) to make a lifting assembly complete.

These products are all produced to the specifications indicated in this catalogue and are subject to the quality control of Royal Van Beest. Complementary products are highlighted on the product pages of the catalogue with this icon c.

PROUD MEMBER OF

We are a member of several organizations who promote common interests in our industry. Companies with similar interests come together to share ideas and solutions for industry issues. These organizations spread (technical) information through publications, internet, meetings, and represent the interests of their members on a collective basis. Some of them also organize trade missions, seminars, workshops, member meetings and collective participation in exhibitions worldwide.

AVAILABLE WORLDWIDE

We believe Green Pin® products should be available to everyone on earth within 72 hours. That's why Green Pin works with the most and the best distributors on this planet. To find the distributor nearest to you, please contact us at: info@greenpin.com

REFERENCES

Some companies that use our products in projects:

- ADNOC
- Aker Marine Contractors
- Allseas
- BAE Systems
- Bechtel Corporation
- BHP Billiton
- Bluestream Offshore
- Bluewater
- Boskalis
- Bouygues
- BP
- Buckner Heavylift Cranes
- Caterpillar
- Chevron
- Codelco
- ConocoPhillips
- Delmar Systems
- EDF
- Eiffage
- Equinor
- ExxonMobil
- Fluor
- Fugro
- General Electric
- Heerema Marine Contractors
- Hyundai Heavy Industries
- InterMoor
- Jumbo
- Kiewit
- Lamprell
- Liebherr
- Mammoet / ALE
- Manitou
- McDermott
- Nordex
- NOV
- NPCC
- Oceaneering
- Pacific Drilling
- Rio Tinto
- Saipem
- Sapura Energy
- Saudi Aramco
- Schlumberger
- Shell
- Siemens
- SpaceX
- Subsea 7
- Tata
- TechnipFMC
- TotalEnergies
- Transocean
- US Steel
- Van Oord
- Vestas
- Vinci
- Wood Group

INSIGHTFUL AND HANDS-ON GREEN PIN® TRAINING

Green Pin® seminars and webinars give you the chance to improve your knowledge and discover new features about Green Pin® products and instruct you on how to operate them safely and properly. The training also provides you with insights into the engineering and production technology that goes into manufacturing them.

All sessions are interactive: they allow you to ample opportunities to ask any questions you have, or put forward any challenges that you have faced in the past to knowledgeable presenters.

Organized online via webinar, via a hybrid set-up, or face-to-face at a Green Pin® location or an external venue, there's always a seminar to be found or to be created that fits your schedule and location. In case you want to use the training for accreditation points we can supply you with an official Green Pin® certificate of participation.

Available Green Pin® training

Green Pin® seminars and webinars are available in several pre-defined formats as shown in the table below. However, completely customized training can also be made. Such sessions allow us to focus on precisely those challenges that you and your colleagues have questions about.

E-mail info@greenpin.com for any inquiries.

Green Pin® Training	What will you learn?	Industry focus	Duration
Shackles	The complete resource on Green Pin® shackles. Topics include the product range, production method, design, testing, instructions for use, certifications and inspection.	All	Two parts of 1 hour each
ROV Shackles and Hooks	An overview of all the shackles and hooks specially designed for Remotely Operated Vehicles, includes many pointers for the most effective use of the products.	Subsea, Offshore	1 hour
Aquaculture Range	Overview of all products specially designed for fishing and aquaculture. Extremely safe products and designed for long use underwater.	Fishing, Aquaculture	1 hour
Chain Fittings	Overview of complete chain fittings range, production method, design, testing, instructions for use, certifications and inspection.	All	Two parts of 1 hour each
Catch Shackle	Reducing the number of injuries and possible deaths by preventing objects from falling with the Catch shackle when assembly or disassembly during installation at a height.	Onshore and Offshore installations	45 min
Fixed Nut Shackles	The benefits, functionality and applications of this extremely secure way of fastening a shackle bolt for permanent use.	Multiple but mostly Marine, Offshore	1 hour
Heavy Duty Master Links	Overview of the range and features that make this forged master link unique in its class.	Offshore	1 hour
Green Pin Tycan® Chain	The complete resource on Green Pin Tycan® fibre chain for lashing and lifting; topics include the product range, design, testing, instructions for use, certifications, inspections and project examples.	All	1 hour
Power Sling® Shackles	Improving rigging safety and saving wire rope costs with the most innovative heavy-lifting shackle in the industry. The session covers this and other benefits, design features, certifications and application instruction.	Offshore, Wind	1 hour
General introduction	The benefits of Green Pin®, usage in various industries and a general overview of the assortment.	All	1 hour
Royal Van Beest Group	Background on Green Pin®'s corporate parent, the Royal Van Beest Group: its history, current operations, subsidiary companies and their products.	All	1 hour
Tailormade webinars	A tailormade session focused on your specific topic of interest or zooming in on a technical challenge you have faced with our type of products (conditions apply).	-	-

INTRODUCTION

General

In case you do not use the products yourself but are reselling these as part of a manufactured product, please take our general cautions and warnings into account and make these known to your customers as well. In any case, we do not accept any responsibility or liability, nor can we be held responsible for any misuse or damage with, by or at your customers due to negligent use.

Definitions

Material

Various raw materials are used for the production of shackles, hooks and other lifting devices, depending on the use of the finished product. The following raw materials may be used:

- Mild steel, untreated, grade 30;
- High tensile steel, untreated or normalized, grade 40;
- High tensile steel, quenched and tempered, grade 60;
- Alloy steel, quenched and tempered, grade 80;
- Alloy steel, quenched and tempered, grade 100;
- Stainless steel AISI316L, AISI316 or Duplex 1.4462, grade 50.

Load

Following terms are used to define a load:

- Working Load Limit or WLL: the maximum load the product is designed to sustain, in general use and in in-line lifting.
- Proof Load or PL: this is the load applied on proof testing the product. At this load the product may not show visual deformation. For information about the proof load applied, we refer to the separate paragraph on testing.
- Minimum Breaking Load or MBL: the minimum load at which the product may fail or no longer sustain the load. Where applicable the MBL is specified.
- Shock Load: a sudden impact of the load on the lifting product. Shock loads are to be avoided at all times since they increase the stress on the product significantly and may affect its product life.

The unit that is used in this catalogue to indicate WLL, PL and MBL is t, which stands for metric tonne.

Safety factor

This indicates the ratio between the MBL and the WLL. For example, the standard range of Green Pin® shackles has a the safety factor of 6 : 1. This means that the shackle may only fail to retain the load, when the load is in exceedance of at least 6 times its designed WLL. Green Pin® chain fittings generally have a safety factor of 4 : 1 (lifting eyes have a safety factor of 5 : 1).

Product dimensions

All product dimensions mentioned in this catalogue are nominal dimensions. Product design, materials and/or specifications may be changed without prior notification. You can find the most up to date information including CAD-drawings on **greenpin.com/products**.

Finish

Products can have the following finish:

- Self-coloured: the product is delivered in the condition as it has been forged or machined and has undergone no specific finish treatment.
- Electro-galvanized: the finished product is electro-galvanized according to the customary standards. The thickness of the galvanization is at least 5 µm.
- Hot dipped galvanized: the finished product is hot dipped galvanized according to the customary standards. The thickness of the coating is at least 70 µm.
- Painted: the finished product is painted in a specific colour.
- Polished: stainless steel products are polished.

Standard

These refer to the specific standards indicated for the product.

Temperature range

This indicates the temperature range at which the product can be used. Beyond the advised temperature range the WLL of a product may be affected.

Abbreviations

The following abbreviations are used in this catalogue:

Product class abbreviations (for example, G-4161)

C Carbon steel
A Alloy steel
R Stainless steel
S Self-coloured
P Painted
E Electro-galvanized
G Hot dipped galvanized

Product name abbreviations (for example, Green Pin® Bow Shackle BN)

BN	Bolt & Nut or safety bolt	HH	Hook-Hook
CL	Clevis	HK	Hook
CP	Cotter Pin	H-type	Horizontal
D	D-Handle	JJ	Jaw-Jaw
E	Eye	ROV	Remotely Operated Vehicle
EE	Eye-Eye	RT	Recessed Trigger
EJ	Eye-Jaw	S	Shackle
EH	Eye-Hook	S/S	Stainless Steel
F	Fishtail handle	SC	Screw Collar or Screw Pin
FN	Fixed Nut	SCL	Swivel Clevis
FP	Flush Pin	SE	Swivel Eye
GR5	Grade 50	SQ	Square headed Screw Pin
GR8	Grade 80	U-type	Universal (Horizontal and Vertical)
GR10	Grade 100	V-type	Vertical

Certificates

Our company is ISO certified by Lloyd's; currently we are ISO 9001-2015 certified. Depending on the type of product and certificate availability for a certain product, below mentioned certificates can be provided.

Type 2.1	2.1	**Works certificate to EN 10204** Statement of compliance with the order.
Type 2.2	2.2	**Works certificate to EN 10204** Statement of compliance with the order, stating the results of non-specific inspection.
Type 3.1	3.1	**Inspection certificate to EN 10204** Statement of compliance with the order, stating the results of material specific inspection. This includes chemical composition and mechanical properties at component level.
Type MTC a	MTC [a]	**Manufacturer test certificate** Statement of compliance with the order, stating the results of proof load testing samples of a production batch. Products are not individually tested.
Type MTC b	MTC [b]	**Manufacturer test certificate** Statement of compliance with the order, stating the results of individual proof load testing.
Type LROS	LROS	**Proofload Statement** Statement of witness of proof load testing and visual examination by a surveyor from Lloyds Register, stating the results of individual proof load testing.
Type DNV PL	DNV PL	**Proofload Statement** Statement of witness of proof load testing and visual examination by a surveyor from DNV, stating the results of individual proof load testing. For P-6043, these shackles are proof load tested with presence of a DNV surveyor.
Type MPI a	MPI [a]	**Non-destructive testing report** Statement of compliance with the order, stating the results of Magnetic Particle Inspection (M.P.I.) in accordance with EN 10228-1 on samples of a production batch. Products are not individually tested.
Type MPI b	MPI [b]	**Non-destructive testing report** Statement of compliance with the order, stating the results of individual Magnetic Particle Inspection (M.P.I.) in accordance with EN 10228-1.

Table continues on next page

Type US a	US [a]	**Non-destructive testing report** Statement of compliance with the order, stating the results of Ultrasonic Inspection (U.S.) in accordance with EN 10228-3 on samples of a production batch. Products are not individually tested.
Type US b	US [b]	**Non-destructive testing report** Statement of compliance with the order, stating the results of individual Ultrasonic Inspection (U.S.) in accordance with EN 10228-3.
Type DNV 2.7-1 a	DNV 2.7-1 [a]	**Type Approval certificate to DNV 2.7-1** Green Pin® Standard Shackles, Green Pin Polar® Shackles, DNV Master links and DNV Master link assemblies are DNV Type approved to DNV standards DNV-ST-E271-2.71 Offshore containers and DNV-ST-E273 Portable offshore units. DNV Type approval certificates TAS000033J and TAS00003F7.
Type DNV 2.7-1 b	DNV 2.7-1 [b]	**Type Approval certificate to DNV 2.7-1** Statement of compliance with the order, of Green Pin® Standard Shackles and Green Pin Polar® Shackles, DNV Type approved to DNV standards DNV-ST-E271-2.71 Offshore containers and DNV-ST-E273 Portable offshore units. Stating the results of proof load testing samples of a production batch. Products are not individually tested.
Type DNV 0377	DNV 0377	**Type Approval certificate to DNV 0377** Green Pin Power Sling® shackles are DNV Type approved to DNV Standard DNV-ST-0377 Standard for shipboard lifting appliances. DNV Type approval certificate TAS000018M. Former DNV Certification No 2.22, Lifting Appliances – Application – Loose gear for offshore cranes.
Type DNV 0378	DNV 0378 DNV CG3	**Type Approval certificate to DNV 0378** Green Pin® Standard Shackles, Green Pin Polar® Shackles and Green Pin Power Sling® shackles are DNV Type approved to DNV Standard DNV-ST-0378 – Standard for offshore and platform lifting appliances. DNV Type approval certificates TAS00001H7 and TAS000018M. Former DNV Certification No 2.22, Lifting Appliances – Application – Loose gear for offshore cranes.
Type NYTEK / NS 9415	DNV NS 9415	**Type Approval certificate to NYTEK-regulation and NS 9415** Green Pin® products, (G-4139, G-8310, G-4863, G-4163BG and G-6870), are primarily used for Aquaculture applications. These products and the Royal Van Beest management system are certified by DNV for compliance with NYTEK-regulation and NS 9425 standard. DNV approval certificate PRONO 121.
Type DGUV	DGUV	**DGUV Type test certificate to EN 1677** Many Green Pin® chain sling components have a DGUV type approval certificate. Tests are based on GS-OA-15-05:2012-05: Principles for the testing and certification of chains and chain components. These components are Type approved to EN 818-2 or EN 1677 and are entitled to be marked H94.
Type CE IIA	CE IIA	**CE Declaration of Conformity** CE Declaration of Conformity in accordance with annex IIA of the Machinery Directive 2006/42/EC and the latest amendments.
Type CE IIB	CE IIB	**CE Declaration of Incorporation** CE Declaration of Incorporation in accordance with annex IIB of the Machinery Directive 2006/42/EC and the latest amendments.
Type BL	BL	**Break Load test certificate** A certificate with the actual breaking load results on tested samples.
Type ABS PDA	ABS PDA	**Certificate of Product Design Assessment Approval** The Green Pin® Standard Shackles G-4161, G-4163, G-4151, G-4153; The Green Pin Polar® Shackles G-5163 and the Green Pin Super® Shackles G-5261 and G-5263 are ABS Type Approved. Intended service: Loose Gear Items. Use on Lifting Equipment. ABS PDA certificates 23-2397435-PDA, 23-2397436-PDA and 23-2397437-PDA.
Type ABS MA	ABS MA	**Certificate of Manufacturing Assessment Approval** ABS MA certificate 18-RO 3524956.

Conditions

Certificate types 2.1, 2.2, 3.1, MTC a, DNV 2.7-1 a, DNV 2.7-1 b, DNV 0377, DNV 0378, DNV NYTEK / NS 9415, DGUV, ABS PDA, ABS MA and CE can be supplied at no extra charge. For all other certificates, additional costs will be charged.

Free of charge:

2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | DNV 0377 | DNV 0378 | DNV NS 9415 | DGUV | CE IIA | CE IIB | ABS PDA | ABS MA

With additional charges:

MTC [b] | LROS | MPI [a] | MPI [b] | US [a] | US [b] | DNV CG3 | BL

On request the proof load test certificates can be supplied surveyed by an official classification society, such as LROS, DNV, BV, ABS or any other officially certified inspection body. Specific details of certificate availability can be found in each product chapter. Please verify your certification requirements at the time of order. For more information and specifications, see the table below for an overview of the different test methods.

Test method	Test type	Test description	Document
Visual inspection	Non Destructive	The products are inspected and approved by our QC-department. The products are inspected and approved by our QC-department, stating the results of non-specific inspection.	2.1 2.2
Material specific inspection	Destructive	The material of the products is inspected. This includes chemical composition and mechanical properties at component level.	3.1
Proof Load test	Non Destructive	Samples of a production batch of products are proof load tested. Products are not individually tested. All products of a production batch are individually proof load tested.	MTC[a] MTC[b]
Magnetic Particle inspection	Non Destructive	Samples of a production batch of products are Magnetic Particle Inspection (M.P.I.) tested in accordance with EN 10228-1. Products are not individually tested. All products of a production batch are individually Magnetic Particle Inspection (M.P.I.) tested in accordance with EN 10228-1.	MPI[a] MPI[b]
Ultrasonic inspection	Non Destructive	Samples of a production batch of products are Ultrasonic Inspection (U.S.) tested in accordance with EN 10228-3. Products are not individually tested. All products of a production batch are individually Ultrasonic Inspection (U.S.) tested in accordance with EN 10228-3.	US[a] US[b]
Break Load test	Destructive	Samples of a production batch are break load tested.	BL

CAD drawings

Green Pin® products are used in a wide variety of applications; from a simple lift to move an item from A to B in a workplace, to very complex lifting systems for offshore applications. In the latter case, engineers use Computer Aided Design (CAD) software to develop a 2D or 3D specification of the entire system.

For standard products engineers normally use a CAD drawing library. The use of this kind of libraries saves considerable design time and costs. And of course it prevents mistakes that may occur whilst copying data from a product catalogue into the design program.

To help engineers, Green Pin® has made CAD drawings available in various formats (e.g. STEP, IGS, CATIA, etc.) on the Green Pin® website (**www.greenpin.com**). These drawings can be integrated in almost every design program. Further details can be obtained through our website: **www.greenpin.com/cad**.

CAD In the product chapters the CAD icon indicates that cad drawings are available.

RFID RFID

Green Pin® offers an identification solution with an easily accessible Radio Frequency Identification (RFID) chip in our range of Green Pin® Shackles. The RFID icon in the product chapters indicates that the products can be equipped with a countersunk RFID chip.

For more information see page 24.

INFO More information

For some products we provide detailed technical information on our website. In the product chapters the INFO icon indicates that there is extra information on this product available at **www.greenpin.com/FAQ**.

General cautions and warnings

All WLL's indicated in this catalogue or in other Green Pin® literature or publications are only applicable to recently-supplied, new and unused products used under prescribed operating conditions. Any extreme circumstances or shock loading that occur during use must be taken into account when specifying the products to be used.

The WLL should be applied in in-line lifting. Overloads must be avoided. Side loads should be avoided too, as the products are not designed for this purpose and the application of a side load may significantly decrease product life. The WLL of the product represents the limit in static use. In case of dynamic use (breaking, accelerations, shocks), the effective stress on the product increases significantly which can lead to product failure.

Products must be regularly inspected in accordance with the safety standards valid in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the products are used in severe operating conditions.

Green Pin® is constantly improving products to make sure they meet the latest industry standards. Therefore some dimensions or product markings may differ from those stated in this catalogue. The characteristics mentioned in this catalogue or in other Green Pin® literature or publications are given merely as an indication. Green Pin® reserves the right to make any suitable modification to any product, even after acceptance of the customer order. The essential characteristics and performances of the products shall not be negatively affected by such modifications. Any critical dimensions or characteristics should be verified with our engineering department before ordering the product.

Green Pin® products are typically used to transfer loads during lifting, lashing or towing. These fittings are usually combined with steel wire rope, chain or synthetic rope or chain (Green Pin Tycan® chain) to form a lifting sling. You must therefore conduct the following verifications to safely use the products:

Verification before first use

Before first use of the sling it should be ensured that:

- The sling meets the exact requirements specified in the order;
- The valid manufacturer certificate and CE declaration are at hand;
- The identification and the WLL mentioned on the sling correspond to the information stated on the certificate;
- Full details of the sling (components, diameter, number of legs, angle, grade) are recorded in the register of lifting equipment;
- The users of the sling have received appropriate instruction and training.

Verification before each use

Before each use the sling should be visually inspected for obvious damage or deterioration. If faults are found during this inspection, the sling should be withdrawn from service and referred to a competent person for thorough examination. Some parts can be replaced or the complete sling can be discarded.

A thorough inspection should be carried out by a competent person at intervals not exceeding six months and more frequently when the slings are used in severe operation conditions. Records of such inspections should be maintained. Slings should be thoroughly cleaned to remove any oil, dirt or rust prior to inspection. Any cleaning method which does not damage the material is acceptable. Avoid the use of acids, overheating, removal of metal or movement of metal which may cover cracks or surface defects.

The sling should be inspected throughout its full length to detect any evidence of wear, distortion or external damage.

Any replacement component or part of the sling should be in accordance with the appropriate European Standard or the safety standards given in the country of use for that component or part. If a chain link in one of the legs of a chain sling is damaged, then the entire chain leg should be replaced. The repair of a link in a welded chain sling should exclusively be carried out by the chain manufacturer using the adequate welding process. Components showing any defects should be discarded and replaced. When replacing a mechanically assembled component, always use a replacement component that meets the certification requirements of the sling.

Handling of the load

- It is important to check the sling before lifting. Check if the manufacturer of the load indicates any specific instructions for the lifting of the load. Before starting the lift, make sure that the load is free to move and is not bolted down. Also check if no loose objects could fall down from the load. The path between the current location of the load and the new one must be free.
- The weight of the load must be known in order to select a sling with the correct WLL. If the weight of the load is not marked, the information should be obtained from the consignment notes, manuals or drawings, or assessed by calculation.
- Please observe the centre of gravity of the load. To prevent any tilting or toppling, the following conditions should be met:
  - for single leg slings and endless slings the lifting point should be positioned directly above the centre of gravity.
  - for two leg slings the lifting points should be positioned on both sides of, and higher than, the centre of gravity.
  - for three and four leg slings the lifting points should be distributed in a plane around the centre of gravity. Distribute the weight evenly over the lifting points, which should be placed higher than the centre of gravity.
- When using multi leg slings make sure that the angles between the lifting points and sling legs are within the range marked on the sling. The horizontal angle, which is the angle between the sling leg and the horizontal, should never be smaller than 30°. Details about load reductions for slings at certain angles can be found in the tables corresponding to the relevant chain grade.
- Use the below reduction table if a multi leg sling is not used for the purpose for which it has been designed, for example for a lifting operation with fewer legs than the number of legs of the sling:

Types of chain sling	Number of legs used	Factor to apply to marked WLL
Two-leg	1	1/2
Three- and four-leg	2	2/3
Three- and four-leg	1	1/3

- The sling should at least have a WLL equal to or greater than the weight to be lifted.
- Ensure that the load to be moved is able to resist both the vertical and horizontal force without being damaged.
- A suspended load should not be left unattended.
- Riggers should be aware of the risks and dangers of shock loading which may lead to failure of the sling. The load should always be lifted and lowered slowly.

Method of connection

- A sling is usually attached to the load with endfittings such as hooks and/or links.
- The components should be used for in-line loading only in order to avoid bending.
- The lifting points fixed on the load should be seated well in the load bearing part of the hook (never on the tip of the hook or wedged in the opening of the hook).
- We refer to the detailed warnings of each component in the product chapters.

Symmetry of loading

The WLL values mentioned in our catalogue for each grade have been determined on the basis that the loading of the sling is symmetrical. This means that when the load is lifted the sling legs are symmetrically distributed in the plane and all legs of the sling have the same angles to the vertical.
For chain slings refer to EN 818-6:2000+A1:2008 for more details.

The loading can be assumed to be symmetric if all of the following conditions are met:

- the load is less than 80 % of marked WLL and
- sling leg angles to the horizontal are all less then 75° and
- sling leg angles to the vertical are all within 15° to each other and
- in the case of three- and four- leg slings, the plane angles are within 15° of each other.

If one of the above parameters is not met, the loading should be considered to be asymmetric and the lift should be referred to a competent engineer to establish the safe rating for the sling. Alternatively, in the case of asymmetric loading, the sling should be derated to half the marked WLL. If the load tends to tilt during the lift, it should be lowered and the attachments changed by repositioning the attachment points or by using compatible shortening devices. The safety factor on the individual components is designed for safety only. Never exceed the indicated WLL.

Safety of lift

Hands and other body parts should be kept away from the chain to prevent injuries. The load should be lifted slowly until the sling leg is taut. As soon as the load is slightly raised, check that it is secure and has the desired position. Refer to ISO 12480-1 for planning and management of the lifting operation and for a safe way of executing it. Never move the load over people during the lift.

Lowering the load
The point of destination of the load should be prepared and should be adapted to the weight and shape of the load. The access to this site must be clear of any unnecessary obstacles and people. The load should be lowered carefully. Avoid trapping the sling beneath the load as this may cause damage to the load or sling. Before taking the tension off the sling legs, the load should be checked to ensure that it is properly supported and stable. The sling should be removed by hand and not with the lifting device. The load should not be rolled off the sling as this may damage the sling.

Storage of slings
When not in use slings should be kept on a properly designed rack. They should not be left lying on the ground where they may be damaged. If the slings are left suspended from a crane hook, the sling hooks should be engaged in an upper link to reduce the risk of sling legs swinging freely or snagging. If the slings are out of use for some time they should be cleaned, dried and protected from corrosion, e.g. lightly oiled.

Maintenance
Slings must be regularly inspected in accordance with the safety standards valid in the country of use.

A competent engineer should examine the sling, observing the following:
- the sling markings (ID, WLL) must be legible;
- there may be no distortion of the upper or lower end fittings;
- sling leg stretch and wear may not exceed the tolerances.

If the identification tag of the sling is missing and the necessary information is not marked on the sling itself, the sling should be withdrawn from service. Use original Green Pin® spare kits to replace parts (such as a load pin or the latch of a hook) or if a load pin is misused, damaged or distorted.

Limitations in use
- Never modify components by welding, heat treating, grinding or any other process. It could alter their mechanical and/or chemical characteristics;
- Consult Green Pin® if the sling is to be exposed to highly concentrated chemicals. Green Pin® products may not be used under chemical influences such as acids or alkaline solutions;
- The rating of lifting accessories in European Standards assumes the absence of exceptionally hazardous conditions. This concerns offshore activities, lifting of persons and lifting of potentially dangerous loads. In such cases the degree of hazard should be assessed by a competent engineer and the WLL adjusted accordingly;
- If a product is used under extreme temperature conditions, the WLL must be reduced. We refer to the relevant product chapter in this catalogue for guidance on use at extreme temperatures.

Conversion factors

To convert		
from	to	multiply by
Length		
mm	inch	0.0393701
inch	mm	25.4
Mass		
US tonnes	metric tonnes	0.9071847
metric tonnes	US tonnes	1.1023113
metric tonnes	pounds	2204.6226218
pounds	metric tonnes	0.0004536
metric tonnes	kilogram	1000
kilogram	metric tonnes	0.001
metric tonnes	kilo Newton	9.8066500
kilo Newton	metric tonnes	0.1019716
pounds	kilogram	0.4535924
kilogram	pounds	2.2046226
Temperature		
Celcius	Fahrenheit	1.8 +32
Fahrenheit	Celcius	(-32) * 0.5555556
Torque		
Newton meter	foot pound-force	0.7375621
foot pound-force	Newton meter	1.3558180

SHACKLES

Applications

Shackles are used in lifting operations and static systems as removable links to connect (steel) wire rope, chain and other fittings. Screw pin shackles are used mainly for non-permanent applications. Safety bolt and fixed nut shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin. Chain- or dee shackles are mainly used on one-leg systems whereas anchor- or bow shackles are mainly used on multi-leg systems.

Range

Green Pin® offers a wide range of bow and dee shackles for a variety of applications. The range stretches from WLL 0.33 t to 3000 t. This provides our customers with a very extensive range to choose a shackle that suits their application best. Most of the shackles are directly available from stock. Furthermore, shackles can be supplied to many standards such as the US Federal Specification RR-C-271, EN 13889, ISO 2415, British Standard 3032, DIN 82101 etc. Additionally we offer a wide range of general commercial shackles, which are not suitable for lifting but merely for fixing purposes. Van Beest offers a wide range of other shackles to complement the Green Pin® assortment.

Design

All Green Pin® shackles have a specific design for a specific application. Please find below some examples of highly functional designs, to optimize the use of the Green Pin® shackles in daily use:

- Green Pin Super® Shackles which are made from grade 80 steel. They are designed to be used in confined spaces. The higher material strength is used to reduce the physical dimensions of the product whilst maintaining its WLL and functionality;
- Green Pin Polar® Shackles are for use in extreme climatic conditions with material properties generally guaranteed up to temperatures of -76 °F;
- Green Pin Power Sling® Shackles are designed to provide a better bending efficiency for the sling. A larger radius increases the life span of the sling significantly;
- Another example of a functional design is a shackle pin with a square sunken hole. Because of the flat head there is less risk of the shackle getting caught in a net or a line.

How to recognize a genuine Green Pin® shackle?

- Marking in the shackle body and pin (from dia $^{1}/_{2}$ inch and up)
- Steel grade (for example 6)
- CE conformity code
- Diameter bow (inch)
- Green Pin® logo (GP)
- Holland marking
- Working Load Limit (WLL in metric tonnes)
- Traceability code (2 letters)
- Green powder coated pin

Green Pin® Shackles meet all requirements of the Machinery Directive 2006/42/EC and its latest amendments.

Finish

Shackles supplied by Green Pin® are either hot dipped galvanized, electro-galvanized, painted or self-coloured, depending on the type of shackle and its application. You can find the finish of each type of shackle in the product section further on.

Certification

Upon request at time of order, all load rated shackles can be supplied with any of the following documents or certificates:

Free of charge:

2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | DNV 0377 | DNV 0378 | DNV NS 9415 | CE IIA | CE IIB | ABS PDA | ABS MA

With additional charges:

MTC [b] | MPI [a] | MPI [b] | US [a] | US [b] | DNV CG3 | BL

On request the proof load test certificates can be supplied surveyed by an official classification society, such as LROS, DNV, BV, ABS or any other officially certified inspection body. Please verify your certification requirements with Green Pin® at the time of order.

Green Pin® Bow Shackles, Green Pin® Dee Shackles and Green Pin Polar® Shackles are DNV type approved. These shackles carry two DNV type approval certificates that show compliance with:

- DNV-ST-E271-2.71 Offshore Containers
- EN 12079-2 Offshore containers and associated lifting sets
- EN 13889 Forged steel shackles for general lifting purposes
- IMO/MSC Circular 860
- US Federal Specification RR-C-271
- DNV ST-E273 Portable Offshore Units
- DNV Standard No. 0378 Offshore and Platform Lifting Appliances
- ASME B30.26
- ISO 2415

The Green Pin Power Sling® Shackles are DNV type approved. This DNV type approval certificate is in compliance with:

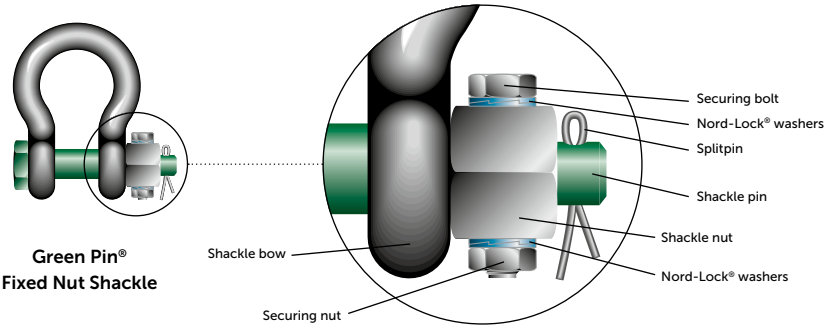
- DNV Standard for Certification No. 0377 Standard for Shipboard Lifting Appliances
- DNV Standard for Certification No. 0378 Offshore and Platform Lifting Appliances

Green Pin® Shackles G-4161, G-4163, G-4151, G-4153, G-5163, G-5261 and G-5263 are ABS Type Approved. The shackles have a Product Design Assessment Approval and a Manufacturer Assessment Approval Certificate. The shackles are type approved to be used as lifting gear or to be used as lifting device.

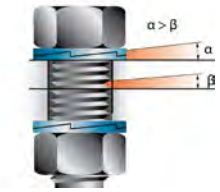
Type approval certificates can be found on **greenpin.com**.

Fixed Nut Shackles

Shackles can also be used in more permanent constructions. These can be subject to dynamic loads and/or extreme vibrations. In such applications there is a risk that, over time, the nut may start to move over the thread. We offer our range of Green Pin® Fixed Nut Shackles to avoid this risk. All Green Pin® shackles with bolt and nut can be equipped with an extra AISI 316 securing bolt that is assembled through the nut and shackle pin. This securing bolt is fastened with two sets of Nord-Lock® washers and a securing nut. This will keep the shackle nut in position. The Nord-Lock® wedge-locking washers lock when subjected to extreme vibration or dynamic loads.



Green Pin®
Fixed Nut Shackle



Nord-Lock®

Green Pin® Shackles with RFID

All lifting equipment requires regular inspection. Tracking and filing reports on paper can be a time consuming task. Green Pin® offers a solution with an easily accessible RFID (Radio Frequency Identification) chip in our range of Green Pin® Shackles. This RFID chip responds to a radio-signal that is transmitted by a reader. Each chip has a unique number and this number links the individual shackle to a record in an inspection management system. The chips are impact resistant and durable and they are countersunk into the end of the shackle pin. The chips are NFC (Near Field Communication) compatible, allowing users to scan, identify and track the shackles with the latest generation of NFC compatible smartphones.

Green Pin® offers the option of RFID implementation in all Green Pin® shackles. For detailed technical information please go to **www.greenpin.com/FAQ**.

- **RF Protocol :** ISO 15693
- **Operating Frequency :** HF – 13.56 MHz

Testing

Generally load rated products are Proofload tested, and certificates can be supplied upon request.
For specific information on certificates we refer to the separate paragraph on certification.

Green Pin® shackles are Proofload tested (bow-pin configuration) at the following loads:

working load limit	Green Pin® Bow or Dee Shackles Polar® Shackles Heavy Duty Shackles BigMouth® Bow Shackle proof load	Green Pin Super® Shackles proof load	Green Pin® Sling Shackles proof load	Green Pin Power Sling® Shackle proof load	Green Pin® Web Sling Shackle proof load	Green Pin BigMouth® Dee Shackle proof load
metric t	metric t	metric t	metric t	metric t	metric t	metric t
0.33	0.66					
0.5	1					
0.75	1.5					
1	2					
1.5	3					
2	4					
3.25	6.5				8.13	
3.3		6.6				
4.6						9.2
4.75	9.5				11.88	
5		10				
6.5	13				16.25	
7		14	14			
8.5	17				21.25	
8.6						17.2
9.5	19	19				
12	24					
12.5		25	25			
13.5	27					
15		30				
15.5						31
16	32					
17	34					
18		36	36			
21		42				
25	50					
30	60	60	60			
35	70					
40		80	80			
42.5	85					
55	110	110	110			
75	150		150			
85	170	170				
120	240	240				
125			250	250		
150	300	300	300	300		
175		350				
200	400		300	400		
250	500		375	500		
300	600		450	600		
400	600		532	800		
500	750		750	1000		
600	900		900	900		
700	1050		931	1050		
800	1200		1064	1200		
900	1350		1350	1350		
1000	1500		1330	1500		
1250	1875		1663	1875		
1500	2250					
1550			2061.5	2325		

Instructions for use

Select the correct type and WLL of the shackle for the particular application. If extreme circumstances or shock loading may occur, this must be taken into account when selecting the correct shackle. Please note that commercial shackles are not to be used for lifting applications.

Shackles should be inspected before use to ensure that:

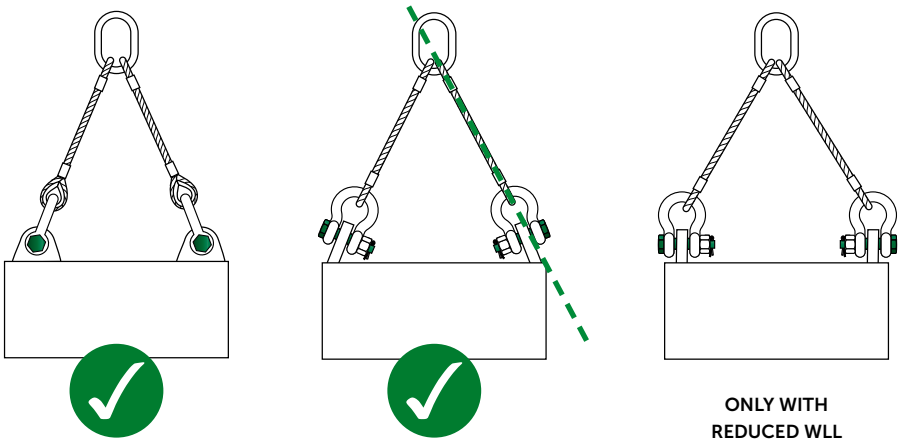
- all markings are legible;
- the body and pin are both of the same brand and type;
- the body and pin are both of the correct size;
- never use a safety bolt type shackle without using a securing pin;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the threads of the pin and the body are undamaged;
- the body and the pin are not distorted or unduly worn;
- the body and pin are free from nicks, gouges, cracks and corrosion;
- shackles may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a shackle by machining, welding, heating or bending as this will affect the WLL.

Assembly

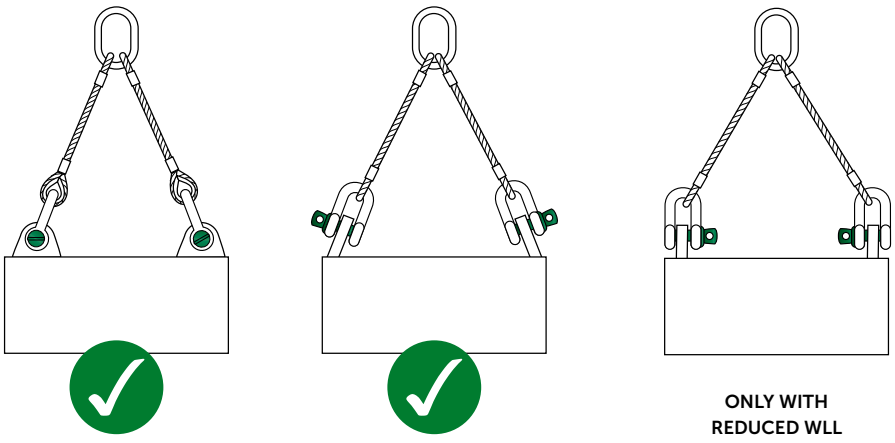
Ensure that the pin is correctly screwed into the shackle eye: tighten it hand-tight, then secure it using a wrench or other suitable tool so that the collar of the pin is fully seated against the shackle eye. Ensure that the pin is of the correct length so that it penetrates the full depth of the threaded eye and the collar of the pin touches the surface of the shackle eye.

Incorrect positioning of the pin may be caused by a bent pin, too tight fitting thread or misalignment of the pin holes. Do not use the shackle under these circumstances. Never replace a shackle pin except with one of the same brand, type, make and size to ensure the shackle maintains its original WLL.

Make sure that the shackle is supporting the load correctly, i.e. along the axis of the shackle body centerline. Avoid bending loads, unstable loads and overloads.



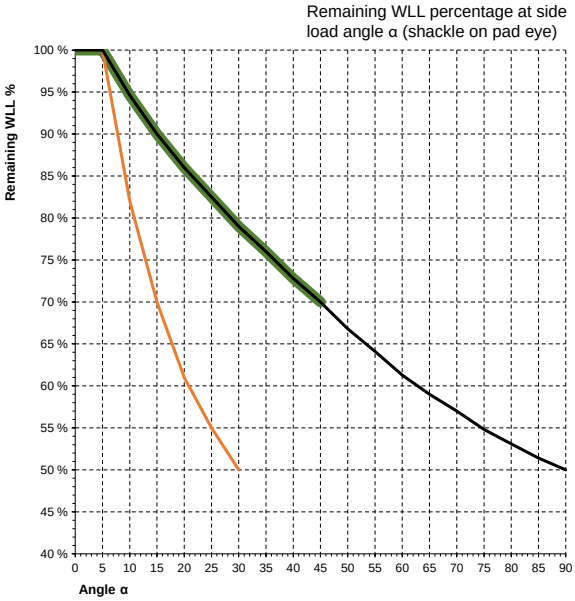
ONLY WITH
REDUCED WLL

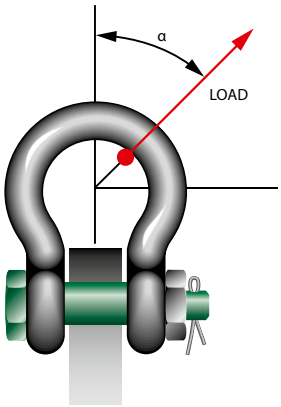


ONLY WITH
REDUCED WLL

Side loads

Side loads should be avoided, as the products are not designed for this purpose. If side loads cannot be avoided, the WLL of the shackle must be reduced:



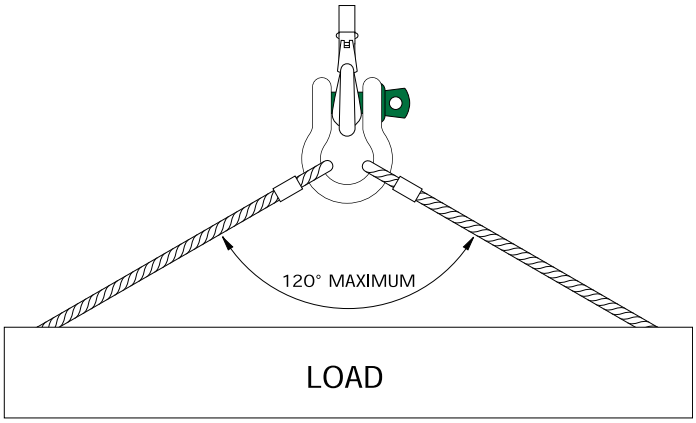


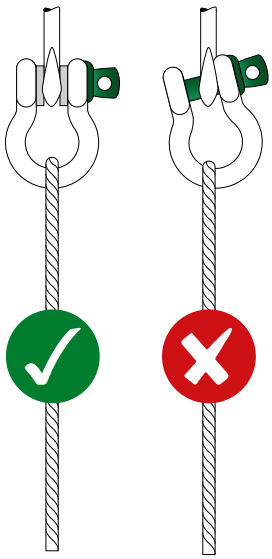
This black curve is valid for almost all Green Pin® shackles, except for ROV Shackles (P-5363 and P-5367) which are for in-line use only. The green curve is valid for Green Pin® Sling Shackles (P-6033, P-6013 and P-6065) and the orange curve is valid for the Green Pin Power Sling® Shackles (P-6043).

In-line lifting is considered to be a load perpendicular to the pin axis and in the plane of the bow. The load angles in the graph represent the deviating angles from in-line loading.

Maximum loading angle

When connecting shackles to multi-leg slings, consider the effect of the angle between the legs of the sling. As the angle increases, so does the load in the sling leg and consequently in any shackle attached to that leg.





When a shackle is used to connect two slings to the hook of a lifting device, a bow type shackle must be used. It's not allowed to configure bow shackles with more than 2 legs. The slings must be connected to the shackle body, and the shackle pin must be placed in the hook. The angle between the slings should not exceed 120°. If symmetrically loaded the shackle may be used to the full WLL.

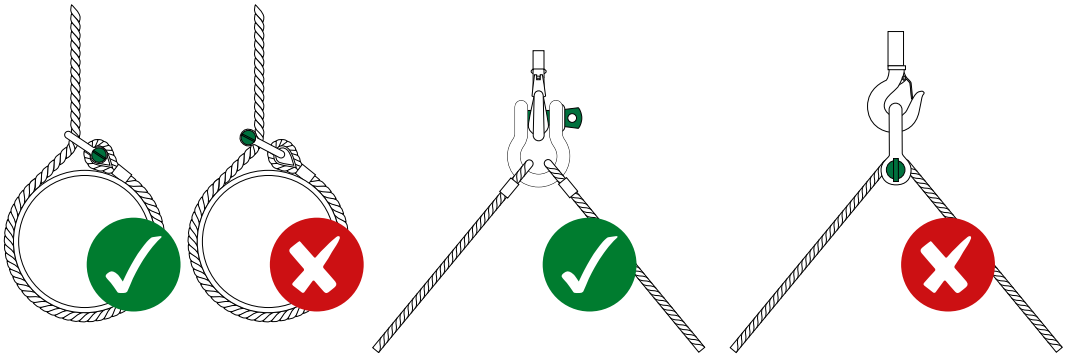
Avoiding eccentric loading

To avoid eccentric loading of the shackle a loose spacer may be used on either end of the shackle pin.
Do not reduce the width between the shackle jaws by welding washers or spacers to the inside of the shackle eyes or by narrowing the jaws, as this will affect the WLL of the shackle.

When a shackle is attached to the top block of a set of wire rope blocks the load on this shackle is increased by the value of the hoisting effect.

Avoiding pin rotation

Avoid applications where the load moves over the shackle pin; the pin may rotate and possibly be unscrewed. If moving of the load cannot be avoided, or when the shackle is to be left in place for a prolonged period or where maximum pin security is required, use a shackle with a safety bolt, nut and cotter pin or a shackle with a fixed nut.



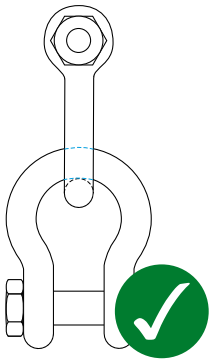
Chemicals

Shackles should not be immersed in acidic solutions or exposed to acidic fumes or other chemicals that are potentially harmful to the shackle.

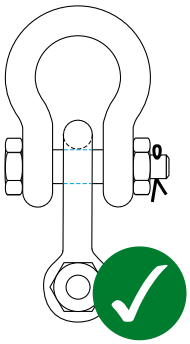
Point loading

Shackles are used in lifting- and static systems as removable links to connect (steel) wire rope, chain and other fittings. Most of the times the load bearing component that connects to a shackle is of a rounded shape. Point loading of shackles during lifting operations is allowed. The maximum load of the configuration is limited by the component with the lowest WLL. Increasing the contact area by using bigger diameters and/or pad eyes can be an advantage. Sharp edges shall be avoided. Green Pin® shackles can also be used in below configurations. The maximum load of the configuration is limited by the component with the lowest WLL.

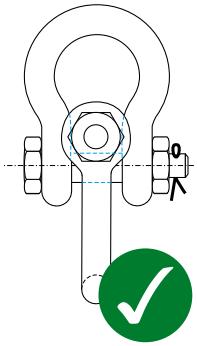
Bow-Bow



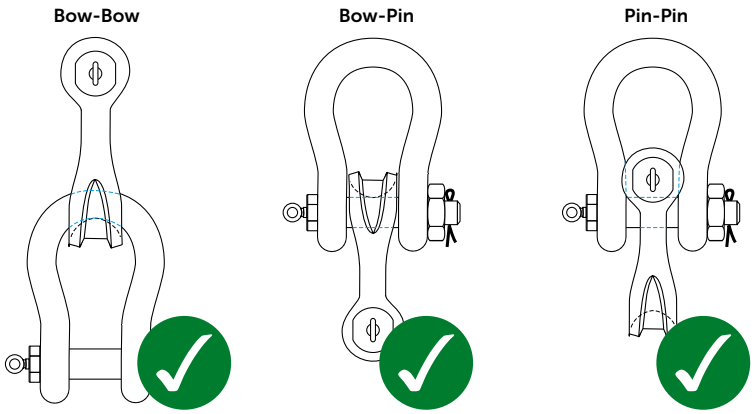
Bow-Pin



Pin-Pin

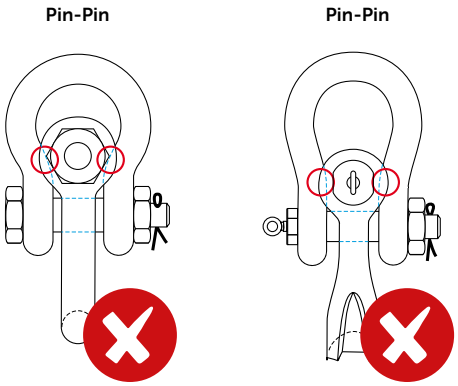


The crown of a Green Pin® Sling Shackle (P-6033) is wider than that of a standard shackle, thus creating a larger bearing surface. This improves the lifetime of the sling. Green Pin® Sling shackles can also be used in below configurations. The maximum load of the configuration is limited by the component with the lowest WLL. For information about point loading of the Green Pin Power Sling® Shackle (P-6043) please contact sales@vanbeest.eu.



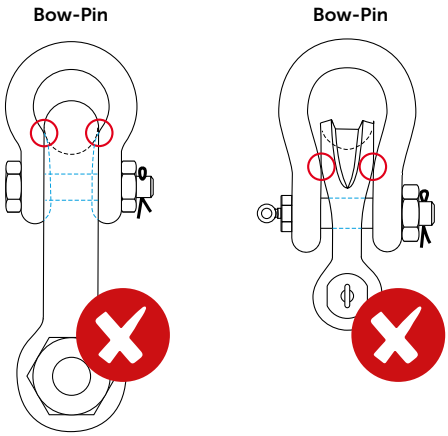
Pin- Pin configuration

When the shackle eyes touch and the pins do not bear properly, the configuration shall not be used.



Bow- Pin configuration

When the shackle body of the inner shackle touches the shackle eyes of the outer shackle and body and pin do not bear properly, the configuration shall not be used.



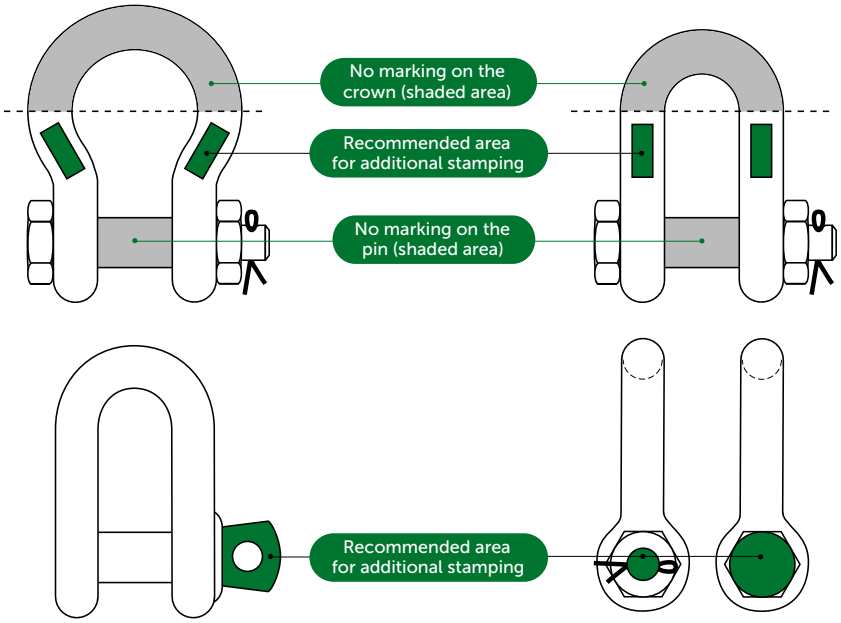
Contact Royal Van Beest, to check if a certain configuration is possible.

Additional markings

It is possible to add additional stamping on Green Pin® shackles, but make sure that you follow the recommendations below. If the recommendations are followed, the performance of the shackles is guaranteed.

- permanent identification marks or symbols are to be made by dot peen marking or with stamps having rounded profiles (low-stress stamps);
- laser markings are allowed as long as the heat of the laser does not influence in a negative way the material structure and properties. The laser marking must be legibly and indelibly marked in a place where the markings will not be removed by use;
- the number of marks on a shackle is to be kept to a minimum;
- the use of fractions and oblique strokes is to be avoided and a dot or hyphen is preferable to a dividing line;
- values of WLL are, generally, to be marked to one place of decimals (except for 0.25 and 0.75) up to 100 t and in integers thereafter. The word "tonnes" may be abbreviated to "t";
- recommended sizes of marks are
  - Diameter of the part to be marked > recommended size of the mark;
  - less than $^1/_2$ inch > $^1/_8$ inch;
  - $^1/_2$ inch to 1 $^1/_{32}$ inch > $^3/_{16}$ inch;
  - over 1 $^1/_{32}$ inch > $^1/_4$ inch.

Typical arrangements of marks can be found in the following illustrations.



Temperature

If extreme temperature situations occur, the following load reductions must be taken into account:

Temperature	Reduction for elevated temperatures New Working Load Limit
up to 392 °F	100 % of original Working Load Limit
392 - 572 °F	90 % of original Working Load Limit
572 - 752 °F	75 % of original Working Load Limit
> 752 °F	not allowed

The rating of shackles to EN 13889 assumes the absence of exceptionally hazardous conditions. Exceptionally hazardous conditions include offshore activities, the lifting of persons and the lifting of potentially dangerous loads such as molten metals, corrosive materials or fissile materials. In such cases a competent person should assess the degree of hazard and the WLL should be reduced accordingly.

Inspection

Shackles must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the shackles are used in severe operating conditions.

2017

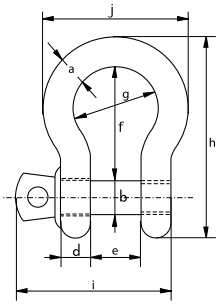
Green Pin® Bow Shackle SC

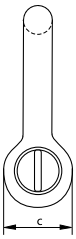
Standard bow shackle with screw collar pin

Scan for additional product details

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 0378 | CE IIA | ABS PDA | ABS MA
- **Article code:** scan QR code to see article codes

G-4161





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
0.33	3/16	1/4	15/32	3/16	3/8	7/8	5/8	1 13/32	1 5/32	1 1/32	0.04
0.5	1/4	5/16	5/8	9/32	15/32	1 5/32	25/32	1 7/8	1 1/2	1 11/32	0.11
0.75	5/16	3/8	25/32	11/32	17/32	1 1/4	7/8	2 7/32	1 27/32	1 9/16	0.22
1	3/8	7/16	29/32	13/32	21/32	1 15/32	1 1/32	2 17/32	2 1/8	1 13/16	0.31
1.5	7/16	1/2	31/32	7/16	3/4	1 11/16	1 5/32	2 7/8	2 11/32	2	0.42
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	2 7/8	2 5/16	0.79
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 1/2	2 15/16	1.39
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/16	3 1/2	2.23
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	4 11/16	4 1/32	3.31
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 13/32	4 21/32	4.87
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 1/32	5 5/32	6.97
12	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	6 11/16	5 25/32	9.5
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 5/16	6 3/8	12.3
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	8	6 7/8	16.38
25	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	27.6
35	2	2 1/4	4 13/32	1 31/32	3 9/32	7 3/4	5 7/16	13 1/16	10 23/32	9 3/8	37.9
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	8 3/4	6 5/16	14 7/8	12 7/32	10 25/32	58
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	13 17/32	12 7/32	83

CAD | RFID | INFO

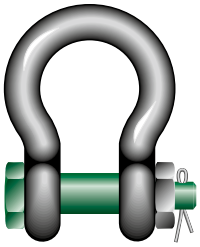
TYPE APPROVED PRODUCT DNV DNV.COM/AF

ABS TYPE APPROVED PRODUCT

Green Pin® Bow Shackle BN

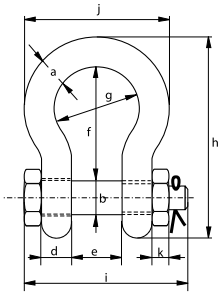
Standard bow shackle with safety bolt

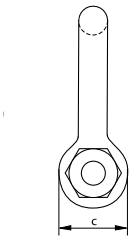
Scan for additional product details



G-4163

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] * | DNV 2.7-1 [b] * | DNV 0378 | CE IIA | ABS PDA | ABS MA
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
0.5	1/4	5/16	5/8	9/32	15/32	1 5/32	25/32	1 7/8	1 21/32	1 11/32	5/32	0.13
0.75	5/16	3/8	25/32	11/32	17/32	1 1/4	7/8	2 7/32	1 31/32	1 9/16	3/16	0.24
1	3/8	7/16	29/32	13/32	21/32	1 15/32	1 1/32	2 17/32	2 3/8	1 13/16	5/16	0.35
1.5	7/16	1/2	31/32	7/16	3/4	1 11/16	1 5/32	2 7/8	2 5/8	2	7/16	0.49
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	3 5/32	2 5/16	1/2	0.93
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	1.63
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 17/32	3 1/2	3/4	2.60
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	3.90
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	5.69
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 17/32	5 5/32	1 1/16	8.07
12	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1 3/16	10.82
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	14.42
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	18.06
25	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	29/32	30.9
35	2	2 1/4	4 13/32	1 31/32	3 9/32	7 3/4	5 7/16	13 1/16	10 19/32	9 3/8	1 1/32	41.4
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	8 3/4	6 5/16	14 7/8	11 27/32	10 25/32	1 5/32	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	12 15/16	12 7/32	1 1/4	87
85	3	3 1/4	6 9/16	2 15/16	5	13	7 15/32	20 7/8	15	13 3/8	1 17/32	137

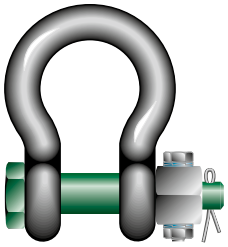
CAD | RFID | INFO

* For shackles ≥ WLL 2 t

Green Pin® Bow Shackle FN

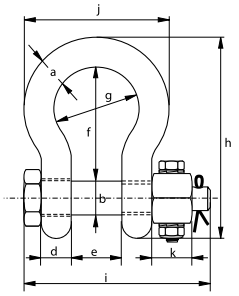
Standard bow shackle with safety bolt and fixed nut

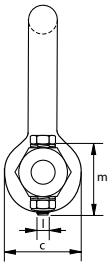
Scan for additional product details



- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | CE IIA
- **Article code:** scan QR code to see article codes

G-4143





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width bow	thickness nut	securing bolt thread	securing bolt length	torque	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l mm	m inch	Ft.Lbs	lbs
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	3 5/32	2 5/16	1/2	M6	1 3/8	6.2	0.93
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	M6	1 9/16	6.2	1.63
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 17/32	3 1/2	3/4	M6	1 25/32	6.2	2.6
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	M8	1 31/32	15	3.9
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	M8	2 5/32	15	5.69
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 17/32	5 5/32	1 1/16	M10	2 3/8	29	8.07
12	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1 3/16	M10	2 9/16	29	10.58
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	M10	2 3/4	29	14.42
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	M8	2 15/16	15	18.06
25	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	29/32	M8	3 17/32	15	30.9
35	2	2 1/4	4 13/32	1 31/32	3 9/32	7 3/4	5 7/16	13 1/16	10 19/32	9 3/8	1 1/32	M10	3 15/16	29	43.9
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	8 3/4	6 5/16	14 7/8	11 27/32	10 25/32	1 5/32	M12	4 11/32	50	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	12 15/16	12 7/32	1 1/4	M12	4 23/32	50	87
85	3	3 1/4	6 9/16	2 15/16	5	13	7 15/32	20 7/8	15	13 3/8	1 17/32	M12	5 1/2	50	137

CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

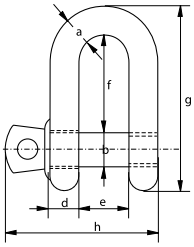
Green Pin® Dee Shackle SC

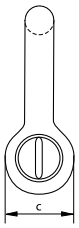
Standard dee shackle with screw collar pin

Scan for additional product details

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 2, grade A, from 2 t upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 0378 | CE IIA | ABS PDA | ABS MA
- **Article code:** scan QR code to see article codes

G-4151





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.33	3/16	1/4	15/32	3/16	3/8	3/4	1 5/16	1 5/32	0.04
0.5	1/4	5/16	5/8	9/32	15/32	7/8	1 5/8	1 1/2	0.11
0.75	5/16	3/8	25/32	11/32	17/32	1 1/16	2	1 27/32	0.2
1	3/8	7/16	29/32	13/32	21/32	1 1/4	2 5/16	2 1/8	0.31
1.5	7/16	1/2	31/32	7/16	3/4	1 15/32	2 5/8	2 11/32	0.42
2	1/2	5/8	1 11/32	1/2	7/8	1 11/16	3 7/32	2 7/8	0.71
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2	3 13/16	3 1/2	1.19
4.75	3/4	7/8	1 13/16	3/4	1 7/32	2 5/16	4 13/32	4 1/16	1.92
6.5	7/8	1	2 1/16	7/8	1 13/32	2 7/8	5 9/32	4 11/16	2.95
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 11/32	6 1/16	5 13/32	4.59
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	3 17/32	6 5/8	6 1/32	6.11
12	1 1/4	1 3/8	2 7/8	1 1/4	2	3 11/16	7 3/32	6 11/16	8.2
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	4 17/32	8 7/32	7 5/16	11.99
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5	9 1/16	8	15.1
25	1 3/4	2	4 3/32	1 25/32	2 29/32	5 7/8	10 21/32	9 9/16	25.4
35	2	2 1/4	4 13/32	1 31/32	3 9/32	6 23/32	12 1/16	10 23/32	37.3
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	7 15/32	13 5/8	12 7/32	54
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	8	14 13/16	13 17/32	72

CAD | RFID | INFO

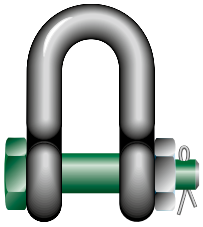
TYPE APPROVED PRODUCT DNV DNV.COM/AF

ABS TYPE APPROVED PRODUCT

Green Pin® Dee Shackle BN

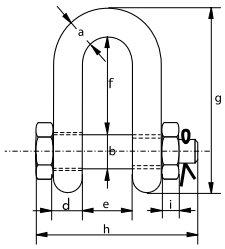
Standard dee shackle with safety bolt

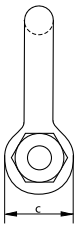
Scan for additional product details



- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, grade A
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] * | DNV 2.7-1 [b] * | DNV 0378 | CE IIA | ABS PDA | ABS MA
- **Article code:** scan QR code to see article codes

G-4153





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	1 11/16	3 7/32	3 5/32	1/2	0.86
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2	3 13/16	3 27/32	21/32	1.48
4.75	3/4	7/8	1 13/16	3/4	1 7/32	2 5/16	4 13/32	4 17/32	3/4	2.38
6.5	7/8	1	2 1/16	7/8	1 13/32	2 7/8	5 9/32	5 1/8	7/8	3.66
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 11/32	6 1/16	5 29/32	31/32	5.42
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	3 17/32	6 5/8	6 17/32	1 1/16	7.5
12	1 1/4	1 3/8	2 7/8	1 1/4	2	3 11/16	7 3/32	7 1/4	1 3/16	9.94
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	4 17/32	8 7/32	7 3/4	1 5/16	13.45
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5	9 1/16	7 15/16	3/4	16.82
25	1 3/4	2	4 3/32	1 25/32	2 29/32	5 7/8	10 21/32	9 9/16	29/32	28.4
35	2	2 1/4	4 13/32	1 31/32	3 9/32	6 23/32	12 1/16	10 19/32	1 1/32	38.4
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	7 15/32	13 5/8	11 27/32	1 5/32	57
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	8	14 13/16	12 15/16	1 1/4	78
85	3	3 1/4	6 9/16	2 15/16	5	9 1/32	16 7/8	15	1 17/32	117

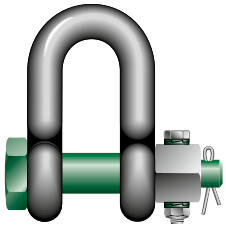
CAD | RFID | INFO

* For shackles ≥ WLL 2 t

Green Pin® Dee Shackle FN

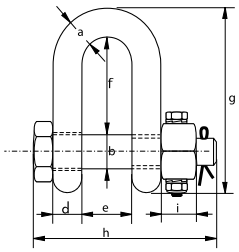
Standard dee shackle with safety bolt and fixed nut

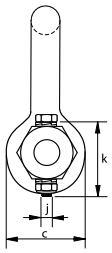
Scan for additional product details »



- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, grade A
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | CE IIA
- **Article code:** scan QR code to see article codes

G-4133





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	securing bolt thread	securing bolt length	torque	weight each
metric	a	b	c	d	e	f	g	h	i	j	k		
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	mm	inch	Ft.Lbs	lbs
2	1/2	5/8	1 11/32	1/2	7/8	1 11/16	3 7/32	3 5/32	1/2	M6	1 3/8	6.2	0.86
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2	3 13/16	3 27/32	21/32	M6	1 9/16	6.2	1.48
4.75	3/4	7/8	1 13/16	3/4	1 7/32	2 5/16	4 13/32	4 17/32	3/4	M6	1 25/32	6.2	2.38
6.5	7/8	1	2 1/16	7/8	1 13/32	2 7/8	5 9/32	5 1/8	7/8	M8	1 31/32	15	3.66
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 11/32	6 1/16	5 29/32	31/32	M8	2 5/32	15	5.42
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	3 17/32	6 5/8	6 17/32	1 1/16	M10	2 3/8	29	7.5
12	1 1/4	1 3/8	2 7/8	1 1/4	2	3 11/16	7 3/32	7 1/4	1 3/16	M10	2 9/16	29	9.94
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	4 17/32	8 7/32	7 3/4	1 5/16	M10	2 3/4	29	13.45
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5	9 1/16	7 15/16	3/4	M8	2 15/16	15	16.82
25	1 3/4	2	4 3/32	1 25/32	2 29/32	5 7/8	10 21/32	9 9/16	29/32	M8	3 17/32	15	29.3
35	2	2 1/4	4 13/32	1 31/32	3 9/32	6 23/32	12 1/16	10 19/32	1 1/32	M10	3 15/16	29	40.8
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	7 15/32	13 5/8	11 27/32	1 5/32	M12	4 11/32	50	57
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	8	14 13/16	12 15/16	1 1/4	M12	4 23/32	50	78
85	3	3 1/4	6 9/16	2 15/16	5	9 1/32	16 7/8	15	1 17/32	M12	5 1/2	50	117

CAD | RFID | INFO

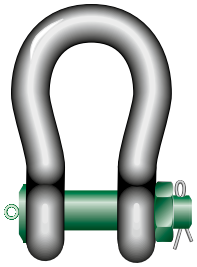
TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin® Heavy Duty Bow Shackle BN

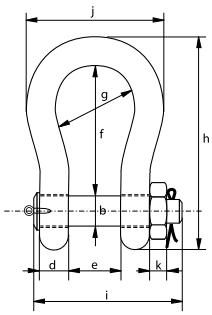
High load capacity bow shackle with safety bolt

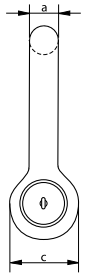
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** shackle bow painted silver, pin painted green
- **Temperature range:** -40 °F up to +392 °F ≤ WLL 600 t
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA **Optional**[***]: MTC [b] * LROS ** MPI [a] US [a]
- **Article code:** scan QR code to see article codes



P-6036





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs	lbs
120	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	15 3/4	9 3/8	25 11/32	17 27/32	16 27/32	1 31/32	62	251
150	4 1/8	4 1/4	9 1/4	4 1/8	6 21/32	16 5/32	10 13/16	27	19 17/32	19 3/32	1 31/32	86	254
200	4 23/32	5 1/8	10 5/8	4 23/32	7 1/16	20 3/16	11 13/32	32 25/32	22 7/32	20 7/8	2 25/32	153	518
250	5 1/8	5 1/2	11 3/16	5 1/8	8 1/16	21 13/16	12	35 9/32	24 3/16	22 1/4	2 25/32	188	650
300	5 1/2	5 29/32	12 1/8	5 1/2	8 1/16	24 11/32	12	38 27/32	25 11/32	23 1/32	3 3/16	225	807
400	6 11/16	6 7/8	14 13/16	6 15/32	9 3/32	26 11/32	12 25/32	43 29/32	27 15/32	26 3/16	2 3/4	333	1367
500	7 3/32	7 9/32	15 21/32	6 15/32	10 3/32	28 5/16	13 25/32	46 7/8	28 21/32	27 15/16	2 3/4	381	1587
600	7 7/8	8 1/16	17 15/32	7 7/16	11 3/32	28 5/16	14 3/4	48 31/32	31 7/8	30 1/2	2 3/4	503	2150
700	8 9/32	8 15/32	17 7/8	8 1/32	12 1/8	28 9/32	15 3/4	49 23/32	34 1/4	32 9/32	2 3/4	584	2370
800	8 9/32	8 21/32	18 9/32	8 1/32	12 1/8	28 9/32	15 3/4	50	34 1/4	32 9/32	2 3/4	608	2425
900	8 21/32	9 1/16	19 3/32	8 15/32	12 29/32	28 9/32	16 17/32	51 1/32	36 7/32	33 27/32	2 3/4	703	2756
1000	9 7/16	9 7/16	20 9/32	8 15/32	13 3/4	28 9/32	16 17/32	52 19/32	37	35 7/16	2 3/4	774	3219
1250	10 1/4	10 5/8	23 1/32	9 1/16	14 17/32	30 1/4	17 23/32	57 5/16	40 11/32	38 3/16	2 3/4	1060	4277
1500	11 1/32	11 13/32	24 19/32	9 1/16	14 17/32	32 7/32	17 23/32	61 1/4	40 11/32	39 3/4	2 3/4	1226	5082

CAD RFID

* Standard certification for shackles ≥ WLL 400 t

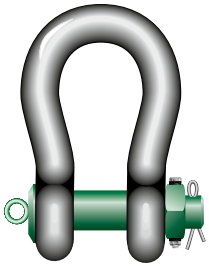
** For shackles ≥ WLL 120 t and ≤ WLL 600 t available with or without LROS.
For shackles ≥ WLL 700 t available with LROS

*** With additional charges

Green Pin® Heavy Duty Bow Shackle FN

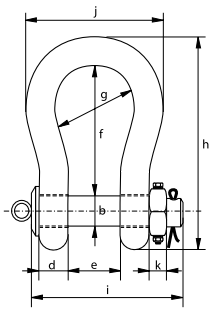
High load capacity bow shackle with safety bolt and fixed nut

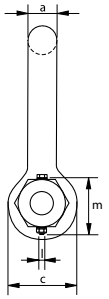
Scan for additional product details



P-6016

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** shackle bow painted silver, pin painted green
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | CE IIA **Optional*:** MTC [b] | LROS | MPI [a] | US [a]
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	securing bolt thread	securing bolt length	torque	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l mm	m inch	Ft.Lbs	lbs	lbs
120	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	15 3/4	9 3/8	25 11/32	17 27/32	16 27/32	1 31/32	M12	5 29/32	68	62	243
150	4 1/8	4 1/4	9 1/4	4 1/8	6 21/32	16 5/32	10 13/16	27	19 17/32	19 3/32	1 31/32	M12	6 5/16	68	86	342

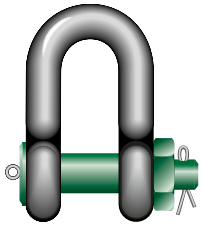
CAD | RFID | INFO

* With additional charges

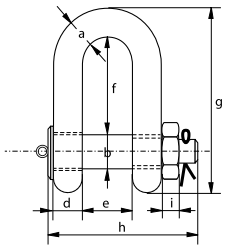
Green Pin® Heavy Duty Dee Shackle BN

High load capacity dee shackle with safety bolt

Scan for additional product details



P-6038



- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** painted
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA **Optional***: MTC [b] LROS MPI [a] US [a]
- **Article code:** scan QR code to see article codes

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs	lbs
120	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	10 25/32	20 15/32	17 5/16	1 31/32	62	243

CAD RFID

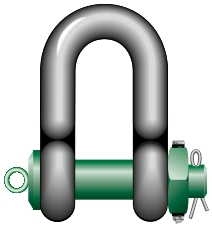
* With additional charges

Green Pin® Heavy Duty Dee Shackle FN

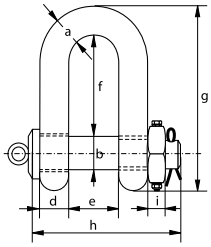
High load capacity dee shackle with safety bolt and fixed nut

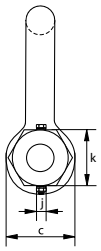
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** painted
- **Temperature range:** -40 °F up to +392 °F ≤ WLL 600 t
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA **Optional*:** MTC [b] LROS MPI [a] US [a]
- **Article code:** scan QR code to see article codes



P-6018





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	securing bolt thread	securing bolt length	torque	weight pin	weight each
metric	a	b	c	d	e	f	g	h	i	j	k			
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	mm	inch	Ft.Lbs	lbs	lbs
120	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	10 25/32	20 15/32	17 5/16	1 31/32	M12	5 29/32	50	62	214

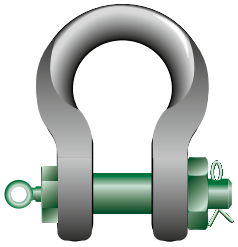
CAD RFID INFO

* With additional charges

Green Pin® Sling Shackle BN

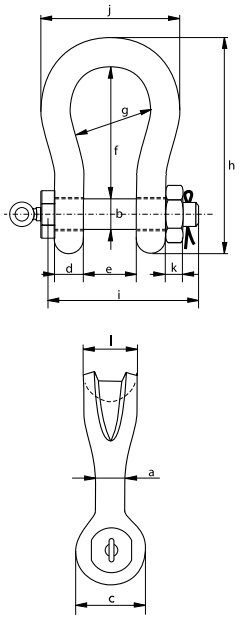
High load capacity bow shackle with safety bolt

Scan for additional product details



- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26 ≤ WLL 600 t
- **Finish:** shackle bow painted silver, pin painted green (WLL 7 t up to 55 t shackles are hot dipped galvanized)
- **Temperature range:** -40 °F up to +392 °F ≤ WLL 600 t; -4 °F up to +392 °F ≥ WLL 700 t
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | CE IIA **Optional**[***]: MTC [b] * | LROS ** | MPI [a] | US [b]
- **Article code:** scan QR code to see article codes

P-6033



working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	bearing surface	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	lbs	lbs
7	7/8	7/8	1 13/16	3/4	1 1/4	3 25/32	2 17/32	6 1/32	4 17/32	4 11/32	3/4	1 5/8	2.18	4.34
12.5	1 1/8	1 1/8	2 13/32	31/32	1 23/32	4 23/32	3 7/32	7 3/4	5 15/16	5 3/4	15/16	2 1/8	4.01	9.41
18	1 3/8	1 3/8	2 23/32	1 3/16	2 1/8	5 13/16	4 1/32	9 13/32	6 23/32	7 3/32	1 5/32	2 17/32	5.18	15.1
30	1 9/16	1 21/32	3 17/32	1 3/8	2 23/32	6 1/2	4 31/32	10 31/32	8 5/32	7 7/8	1 11/32	3 1/8	9.33	27.6
40	2 5/32	2	4 9/32	1 25/32	3 5/16	7 27/32	5 1/2	13 1/32	9 29/32	9 1/4	1 1/2	3 13/16	9.52	44.8
55	2 3/8	2 1/4	4 17/32	2 5/32	3 17/32	9 7/16	6 5/16	15 5/16	11 9/16	10 5/8	1 25/32	3 15/16	10.14	67
75	2 11/16	2 3/4	4 31/32	2 1/8	4 11/32	11 13/32	7 9/32	18 5/8	12 15/32	13 1/32	1 9/16	4 23/32	25.1	99
125	3 11/32	3 5/32	6 5/32	3 11/32	5 13/32	14 13/32	8 21/32	22 15/16	16 1/4	15 11/32	1 9/16	5 29/32	41	203
150	3 11/16	3 3/4	7 1/8	3 1/2	5 25/32	15 13/32	9 31/32	25 1/2	17 17/32	17 11/16	1 31/32	6 11/16	60	309
200	4 11/32	4 1/8	7 29/32	3 15/16	6 7/32	18 15/16	11 1/32	29 7/8	18 29/32	19 11/16	1 31/32	8 1/16	81	452
250	4 31/32	4 23/32	9 1/32	4 11/32	7 1/16	21 11/32	11 13/16	33 27/32	21 1/16	21 23/32	2 3/8	9 7/16	120	582
300	5 11/32	5 9/32	9 11/16	5 9/32	7 11/16	23 21/32	13 25/32	37 1/4	23 7/32	24 13/32	2 3/4	10 7/16	175	794
400	6 5/16	6 5/16	11 5/8	5 23/32	9 3/32	22 11/16	14 9/16	39 3/16	27 1/16	27 15/16	3 5/32	12 19/32	280	1285
500	6 11/16	7 3/32	13	6 5/16	10 11/32	26 13/16	17 23/32	45 23/32	30	33 15/32	3 17/32	13 3/8	388	1900
600	7 15/32	7 7/8	14 3/16	6 11/16	11 3/8	29 3/16	19 9/32	49 3/4	32 9/16	36 5/8	3 15/16	14 9/16	516	2500
700	7 7/8	8 15/32	15 7/16	7 15/32	12 13/32	29 9/16	21 1/4	50 9/16	34 19/32	35 15/32	3 15/16	15 3/4	639	2518
800	8 19/32	9 1/16	16 17/32	7 7/8	13 15/32	33 1/2	21 13/16	56 5/32	37 3/32	37 9/32	4 11/32	16 17/32	772	3126
900	9 17/32	10 1/32	18 11/32	8 21/32	14 1/2	33 1/2	22 27/32	58 19/32	40 9/32	40 9/32	4 23/32	17 5/16	1023	3990
1000	10 1/4	10 5/8	19 9/32	9 7/16	15 23/32	33 1/2	24 3/16	60 5/16	43 7/16	43 19/32	4 23/32	18 1/8	1232	5258
1250	11 7/32	11 13/16	20 3/32	10 1/4	17 25/32	36 21/32	25 19/32	65 19/32	48 5/16	46 17/32	5 29/32	20 7/8	1724	6856
1550	11 7/32	12 19/32	21 21/32	11 1/32	19 1/32	37 13/32	26 25/32	67 5/16	51 3/16	49 11/32	5 29/32	22 1/16	2024	8058

CAD | RFID

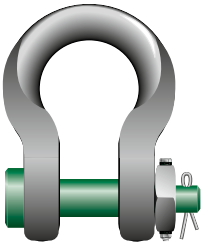
* Standard certification for shackles ≥ WLL 400 t
** For shackles ≥ WLL 75 t and ≤ WLL 600 t available with or without LROS. For shackles ≥ WLL 700 t available with LROS
*** With additional charges

Green Pin® Sling Shackle FN

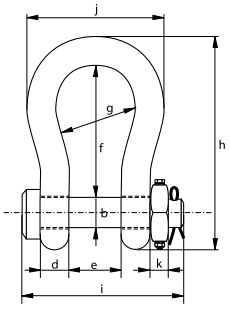
High load capacity bow shackle with safety bolt and fixed nut

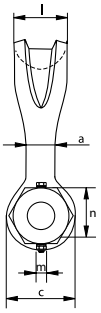
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26 ≤ WLL 600 t
- **Finish:** shackle bow painted silver, pin painted green (WLL 7 t up to 55 t shackles are hot dipped galvanized)
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA **Optional**[**]: MTC [b] LROS [*] MPI [a] US [b]
- **Article code:** scan QR code to see article codes



P-6013





working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	bearing surface	securing bolt thread	securing bolt length	torque	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	m mm	n inch	Ft.Lbs	lbs
7	7/8	7/8	1 13/16	3/4	1 1/4	3 25/32	2 17/32	6 1/32	4 17/32	4 11/32	3/4	1 5/8	M6	1 25/32	6.2	4.34
12.5	1 1/8	1 1/8	2 13/32	31/32	1 23/32	4 23/32	3 7/32	7 3/4	5 15/16	5 3/4	15/16	2 1/8	M8	1 31/32	15	9.41
18	1 3/8	1 3/8	2 23/32	1 3/16	2 1/8	5 13/16	4 1/32	9 13/32	6 23/32	7 3/32	1 5/32	2 17/32	M10	2 9/16	29	15.1
30	1 9/16	1 21/32	3 17/32	1 3/8	2 23/32	6 1/2	4 31/32	10 31/32	8 5/32	7 7/8	1 11/32	3 1/8	M6	2 15/16	6.2	27.6
40	2 5/32	2	4 9/32	1 25/32	3 5/16	7 27/32	5 1/2	13 1/32	9 29/32	9 1/4	1 1/2	3 13/16	M8	3 17/32	15	44.8
55	2 3/8	2 1/4	4 17/32	2 5/32	3 17/32	9 7/16	6 5/16	15 5/16	11 9/16	10 5/8	1 25/32	3 15/16	M10	3 15/16	29	67
75	2 11/16	2 3/4	4 31/32	2 1/8	4 11/32	11 13/32	7 9/32	18 5/8	12 15/32	12 15/32	1 9/16	4 23/32	M12	4 23/32	50	99
125	3 11/32	3 5/32	6 5/32	3 11/32	5 13/32	14 13/32	8 21/32	22 15/16	16 1/4	15 11/32	1 9/16	5 29/32	M12	5 1/8	50	203
150	3 11/16	3 3/4	7 1/8	3 1/2	5 25/32	15 13/32	9 31/32	25 1/2	17 17/32	17 11/16	1 31/32	6 11/16	M12	5 1/2	50	309

CAD RFID INFO

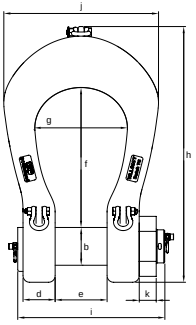
* For shackles ≥ WLL 75 t and ≤ WLL 150 t available with or without LROS
** With additional charges

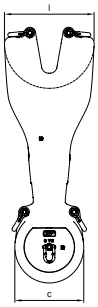
Green Pin Power Sling® Shackle BN

High load capacity, grade 80 shackle with safety bolt

Scan for additional product details

P-6043





- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** shackle bow painted silver, pin painted green
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [b] | DNV PL | MPI [b] | US [b] | DNV 0377 | DNV 0378 | CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	bearing surface	weight pin	weight each
metric t	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	lbs	lbs
125	3 3/16	6 1/2	3 1/2	5 9/32	14 3/8	8 21/32	24 7/8	15 1/32	14 9/16	1 13/32	8 1/16	38.1	214
150	3 3/4	7 5/32	3 17/32	5 21/32	15 11/32	9 27/32	27 11/16	16 1/16	16 17/32	1 21/32	9 3/4	58	295
200	4 1/8	8 1/32	3 15/16	6 1/16	18 29/32	10 7/8	33	17 9/16	18 21/32	1 27/32	11 13/32	78	432
250	4 23/32	9 3/8	4 11/32	6 27/32	21 1/4	11 13/16	36 15/16	19 13/16	20 3/16	2 3/8	12 3/8	121	602
300	5 9/32	10 1/4	4 3/4	7 7/16	23 5/8	13 25/32	40 5/8	21 21/32	23 25/32	2 3/8	13 19/32	159	818
400	6 5/16	12	5 1/2	8 13/16	24 13/32	14 9/16	44 7/32	25	25 23/32	2 3/4	15 7/16	251	1239
500	7 3/32	13 3/8	5 31/32	10 1/32	26 25/32	17 23/32	48 25/32	27 17/32	30 1/32	2 3/4	17 5/16	346	1726
600	7 7/8	14 3/8	6 11/16	11 1/32	29 3/16	19 9/32	53 5/16	30 1/4	32 7/32	2 3/4	18 11/16	467	2211
700	8 15/32	15 15/16	7 15/32	12 19/32	29 9/16	21 1/4	55 23/32	33 7/16	35 5/32	2 3/4	20 5/32	597	2813
800	9 1/16	16 15/16	7 7/8	13 21/32	33 1/2	21 13/16	60 29/32	35 19/32	36 3/32	2 3/4	21 3/32	723	3272
900	10 1/32	18 3/4	8 15/32	14 11/16	33 1/2	22 27/32	62 15/16	37 29/32	38 9/32	2 3/4	22 1/16	939	3986
1000	10 5/8	19 11/16	9 1/8	15 15/16	33 1/2	24 3/16	64 11/16	40 9/16	40 1/4	2 3/4	23 7/32	1120	4700
1250	11 13/16	22 7/16	9 21/32	17 5/32	36 5/8	25 19/32	71 3/8	43 27/32	45 1/32	2 3/4	26 3/8	1484	6374
1550	12 19/32	23 7/32	10 5/8	18 15/32	37 13/32	26 25/32	74 13/32	48 1/32	47 5/8	2 3/4	27 23/32	1823	7754

CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

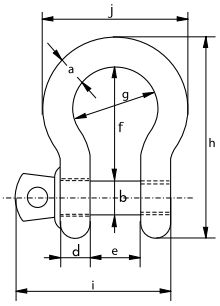
Green Pin Super® Bow Shackle SC

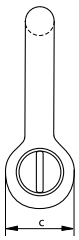
Grade 80 bow shackle with screw pin

Scan for additional product details

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, grade B
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA ABS PDA * ABS MA *
- **Article code:** scan QR code to see article codes

G-5261





working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3.3	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	2 7/8	2 5/16	0.79
5	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 1/2	2 15/16	1.39
7	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/16	3 1/2	2.23
9.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	4 11/16	4 1/32	3.31
12.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 13/32	4 21/32	4.87
15	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 1/32	5 5/32	6.97
18	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	6 11/16	5 25/32	9.5
21	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 5/16	6 3/8	12.3
30	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	8	6 7/8	16.38
40	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	27.6
55	2	2 1/4	4 11/16	2 1/4	3 9/32	7 3/4	5 7/16	13 7/16	11 1/4	9 29/32	37.9
85*	2 1/2	2 3/4	5 23/32	2 3/4	4 1/8	10 1/4	7 3/32	17 7/32	13 15/16	12 19/32	83

CAD RFID INFO

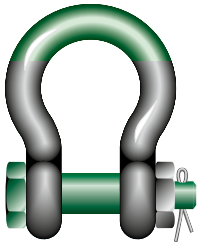
* Excluded from ABS Type Approval

Green Pin Super® Bow Shackle BN

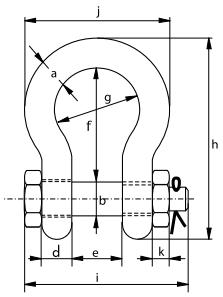
Grade 80 bow shackle with safety bolt

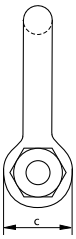
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade B
- **Finish:** hot dipped galvanized (150 t and upward are painted)
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | LROS * | CE IIA | ABS PDA * | ABS MA *
- **Article code:** scan QR code to see article codes



G-5263





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
3.3	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	3 5/32	2 5/16	1/2	0.88
5	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	1.61
7	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 17/32	3 1/2	3/4	2.62
9.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	3.81
12.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	5.64
15	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 17/32	5 5/32	1 1/16	7.94
18	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1 3/16	10.91
21	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	14.59
30	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	17.88
40	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	29/32	32.6
55	2	2 1/4	4 11/16	2 1/4	3 9/32	7 3/4	5 7/16	13 15/32	11 5/32	9 29/32	1 1/32	53
85	2 1/2	2 3/4	5 23/32	2 3/4	4 1/8	10 1/4	7 3/32	17 1/4	13 11/32	12 19/32	1 1/4	99
120	3	3 1/4	6 15/32	3 9/32	5	12 15/16	7 15/32	21 5/32	15 5/8	14 1/32	1 17/32	159
150*	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	15 3/4	9 3/8	25 11/32	17 27/32	16 27/32	1 31/32	247
175*	4 1/8	4 1/4	9 1/4	4 1/8	6 21/32	16 5/32	10 13/16	27	19 17/32	19 3/32	1 31/32	353

CAD | RFID | INFO

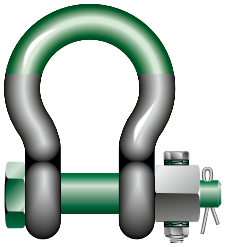
* For shackles WLL 150 t and WLL 175 t available with and without LROS
* With round headed bolt
* Excluded from ABS Type Approval

Green Pin Super® Bow Shackle FN

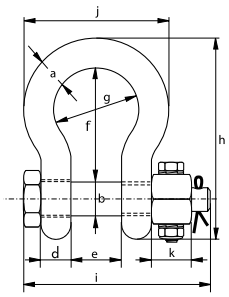
Grade 80 bow shackle with safety bolt and fixed nut

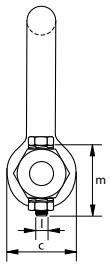
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade B
- **Finish:** hot dipped galvanized (150 t and upward are painted)
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] LROS * CE IIA
- **Article code:** scan QR code to see article codes



G-5243





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	securing bolt thread	securing bolt length	torque	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l mm	m inch	Ft.Lbs	lbs
3.3	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	3 5/32	2 5/16	1/2	M6	1 3/8	6.2	0.97
5	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	M6	1 9/16	6.2	1.74
7	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 17/32	3 1/2	3/4	M6	1 25/32	6.2	2.78
9.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	M8	1 31/32	15	4.14
12.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	M8	2 5/32	15	6.13
15	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 17/32	5 5/32	1 1/16	M10	2 3/8	29	8.53
18	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1 3/16	M10	2 9/16	29	11.6
21	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	M10	2 3/4	29	15.3
30	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	M8	2 15/16	15	19.38
40	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	29/32	M8	3 17/32	15	33.1
55	2	2 1/4	4 11/16	2 1/4	3 9/32	7 3/4	5 7/16	13 15/32	11 5/32	9 29/32	1 1/32	M10	3 15/16	29	48.5
85	2 1/2	2 3/4	5 23/32	2 3/4	4 1/8	10 1/4	7 3/32	17 1/4	13 11/32	12 19/32	1 1/4	M12	4 23/32	50	93
120	3	3 1/4	6 15/32	3 9/32	5	13	7 15/32	21 5/32	15 5/8	14 1/32	1 17/32	M12	5 1/2	50	154
150*	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	15 3/4	9 3/8	25 11/32	17 27/32	16 27/32	1 31/32	M12	5 29/32	50	247
175*	4 1/8	4 1/4	9 1/4	4 1/8	6 21/32	16 5/32	10 13/16	27	19 17/32	19 3/32	1 31/32	M12	6 5/16	50	353

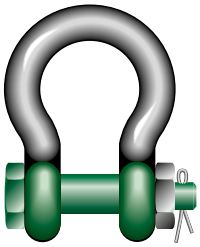
CAD RFID INFO

* For shackles WLL 150 t and WLL 175 t available with and without LROS
* With round headed bolt

Green Pin Polar® Bow Shackle BN

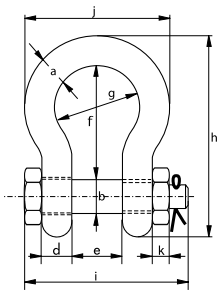
Grade 80 bow shackle with safety bolt for use under low temperatures

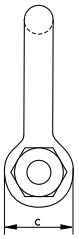
Scan for additional product details



G-5163

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 7 x WLL
  for shackles with WLL 55 t and 85 t the MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A
- **Finish:** hot dipped galvanized
- **Temperature range:** -76 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | DNV 0378 | CE IIA | ABS PDA | ABS MA
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
metric	a	b	c	d	e	f	g	h	i	j	k	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	3 5/32	2 5/16	1/2	0.93
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	1.63
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 17/32	3 1/2	3/4	2.6
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	3.9
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	5.69
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 17/32	5 5/32	1 1/16	8.07
12	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1 3/16	10.82
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	14.42
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	18.06
25	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	29/32	31.3
35	2	2 1/4	4 13/32	1 31/32	3 9/32	7 3/4	5 7/16	13 1/16	10 19/32	9 3/8	1 1/32	43.9
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	8 3/4	6 5/16	14 7/8	11 27/32	10 25/32	1 5/32	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	12 15/16	12 7/32	1 1/4	87
85	3	3 1/4	6 9/16	2 15/16	5	13	7 15/32	20 7/8	15	13 3/8	1 17/32	137

CAD | RFID | INFO

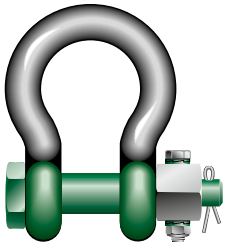
TYPE APPROVED PRODUCT DNV DNV.COM/AF

ABS TYPE APPROVED PRODUCT

Green Pin Polar® Bow Shackle FN

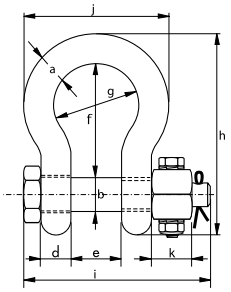
Grade 80 bow shackle with safety bolt and fixed nut for use under low temperatures

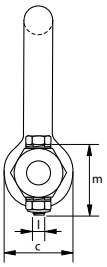
Scan for additional product details



G-5143

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 7 x WLL
  for shackles with WLL 55 t and 85 t the MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A
- **Finish:** hot dipped galvanized
- **Temperature range:** -76 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | CE IIA
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	securing bolt thread	securing bolt length	torque	weight each
metric	a	b	c	d	e	f	g	h	i	j	k	l	m		
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	mm	inch	Ft.Lbs	lbs
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	3 5/32	2 5/16	1/2	M6	1 3/8	6.2	0.93
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	M6	1 9/16	6.2	1.63
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 17/32	3 1/2	3/4	M6	1 25/32	6.2	2.6
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	M8	1 31/32	15	3.9
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	M8	2 5/32	15	5.69
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 17/32	5 5/32	1 1/16	M10	2 3/8	29	8.07
12	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1 3/16	M10	2 9/16	29	10.82
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	M10	2 3/4	29	14.42
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	M8	2 15/16	15	18.06
25	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	29/32	M8	3 17/32	15	31.3
35	2	2 1/4	4 13/32	1 31/32	3 9/32	7 3/4	5 7/16	13 1/16	10 19/32	9 3/8	1 1/32	M10	3 15/16	29	43.9
42.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	8 3/4	6 5/16	14 7/8	11 27/32	10 25/32	1 5/32	M12	4 11/32	50	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	12 15/16	12 7/32	1 1/4	M12	4 23/32	50	87
85	3	3 1/4	6 9/16	2 15/16	5	13	7 15/32	20 7/8	15	13 3/8	1 17/32	M12	5 1/2	50	137

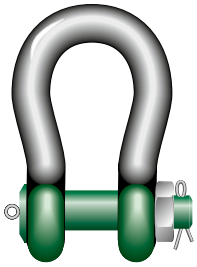
CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin Polar® Heavy Duty Bow Shackle BN

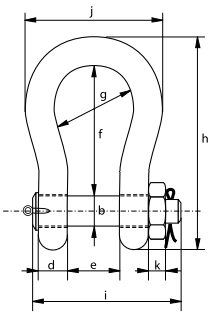
High load capacity, grade 80 bow shackle with safety bolt for use under low temperatures

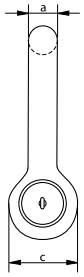
Scan for additional product details



P-6031

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** shackle bow painted silver, pin painted green
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA **Optional*****: MTC [b] * LROS ** MPI [a] US [a]
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs	lbs
120	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	15 3/4	9 3/8	25 11/32	17 27/32	16 27/32	1 31/32	62	243
150	4 1/8	4 1/4	9 1/4	4 1/8	6 21/32	16 5/32	10 13/16	27	19 17/32	19 3/32	1 31/32	86	353
200	4 23/32	5 1/8	10 5/8	4 23/32	7 1/16	20 3/16	11 13/32	32 25/32	22 7/32	20 7/8	2 25/32	153	518
250	5 1/8	5 1/2	11 3/16	5 1/8	8 1/16	21 13/16	12	35 9/32	24 3/16	22 1/4	2 25/32	188	628
300	5 1/2	5 29/32	12 1/8	5 1/2	8 1/16	24 11/32	12	38 27/32	25 11/32	23 1/32	3 3/16	225	811
400	6 11/16	6 7/8	14 13/16	6 15/32	9 3/32	26 5/16	12 25/32	43 27/32	27 5/32	26 3/16	2 3/4	333	1235
500	7 3/32	7 9/32	15 21/32	6 15/32	10 3/32	28 9/32	13 25/32	46 27/32	28 11/32	27 15/16	2 3/4	381	1579
600	7 7/8	8 1/16	17 15/32	7 7/16	11 3/32	28 9/32	14 3/4	48 15/16	31 7/8	30 1/2	2 3/4	503	2150
700	8 9/32	8 15/32	17 7/8	8 1/32	12 1/8	28 9/32	15 3/4	49 23/32	34 1/4	32 9/32	2 3/4	584	2370
800	8 9/32	8 21/32	18 9/32	8 1/32	12 1/8	28 9/32	15 3/4	50	34 1/4	32 9/32	2 3/4	608	2425
900	8 21/32	9 1/16	19 3/32	8 15/32	12 29/32	28 9/32	16 17/32	51 1/32	36 7/32	33 27/32	2 3/4	703	2756
1000	9 7/16	9 7/16	20 9/32	8 15/32	13 3/4	28 9/32	16 17/32	52 19/32	37	35 7/16	2 3/4	774	3219
1250	10 1/4	10 5/8	23 1/32	9 1/16	14 17/32	30 1/4	17 23/32	57 5/16	40 11/32	38 3/16	2 3/4	1060	4277
1500	11 1/32	11 13/32	24 19/32	9 1/16	14 17/32	32 7/32	17 23/32	61 1/4	40 11/32	39 3/4	2 3/4	1226	5082

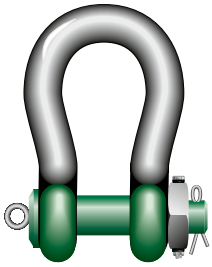
CAD RFID

* Standard certification for shackles ≥ WLL 400 t
** For shackles between WLL 120 t and WLL 600 t available with and without LROS. For shackles WLL 700 t and up available with LROS
*** With additional charges

Green Pin Polar® Heavy Duty Bow Shackle FN

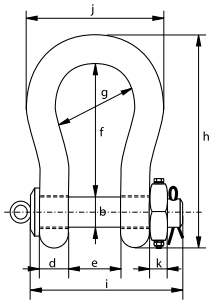
High load capacity, grade 80 bow shackle with safety bolt and fixed nut for use under low temperatures

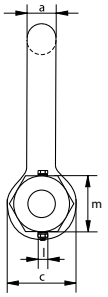
Scan for additional product details



P-6011

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** shackle bow painted silver, pin painted green
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] LROS * CE IIA
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	securing bolt thread	securing bolt length	torque	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l mm	m inch	Ft.Lbs	lbs	lbs
120	3 3/4	3 3/4	8 1/32	3 3/4	5 25/32	15 3/4	9 3/8	25 11/32	17 27/32	16 27/32	1 31/32	M12	5 29/32	50	62	243
150	4 1/8	4 1/4	9 1/4	4 1/8	6 21/32	16 5/32	10 13/16	27	19 17/32	19 3/32	1 31/32	M12	6 5/16	50	86	353

CAD RFID INFO

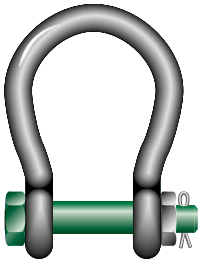
* For shackles ≥ WLL 120 t available with or without LROS

Green Pin BigMouth® Bow Shackle BN

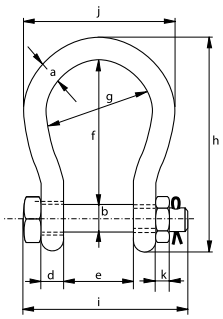
Grade 80 bow shackle with safety bolt and wider shackle mouth

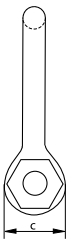
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



G-4263





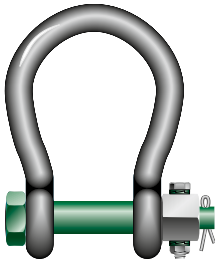
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
4.75	7/8	1	2 1/16	7/8	2 15/32	4 13/32	3 15/32	6 13/16	6 3/16	5 3/16	7/8	4.59
6.5	1	1 1/8	2 5/16	31/32	2 15/16	5 5/16	4 1/8	8 1/32	7 7/32	6 3/32	31/32	6.92
8.5	1 1/8	1 1/4	2 19/32	1 3/32	3 7/32	5 13/16	4 17/32	8 27/32	8 1/16	6 23/32	1 1/16	9.61
9.5	1 1/4	1 3/8	2 27/32	1 1/4	3 17/32	6 3/8	4 31/32	9 3/4	8 13/16	7 15/32	1 3/16	13.12
12	1 3/8	1 1/2	3 1/8	1 3/8	3 15/16	7 3/32	5 1/2	10 25/32	9 21/32	8 9/32	1 5/16	17.35
16	1 1/2	1 5/8	3 15/32	1 1/2	4 3/16	8 1/2	6 1/4	12 9/16	9 3/4	9 1/4	3/4	22.5
25	1 3/4	2	4 1/16	1 25/32	5	9 3/4	6 7/8	14 9/16	11 21/32	10 7/16	29/32	36.8
30	2	2 1/4	4 21/32	1 31/32	5 3/4	10 3/4	8 5/32	16 3/16	13 1/16	12 3/32	1 1/32	55
55	2 1/2	2 3/4	5 23/32	2 9/16	6 1/2	12 3/8	8 3/8	19 3/16	15 5/16	13 1/2	1 1/4	99
75	3 1/4	3 1/4	6 15/32	3 9/32	7 1/4	13	10	21 5/32	17 29/32	16 17/32	1 17/32	154

CAD RFID

Green Pin BigMouth® Bow Shackle FN

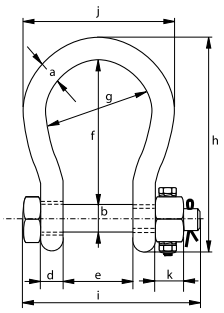
Grade 80 bow shackle with safety bolt, fixed nut and wider shackle mouth

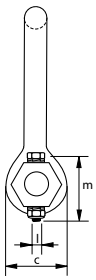
Scan for additional product details »



G-4243

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes





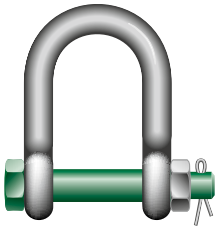
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	securing bolt thread	securing bolt length	torque	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l mm	m inch	Ft.Lbs	lbs
4.75	7/8	1	2 1/16	7/8	2 15/32	4 13/32	3 15/32	6 13/16	6 3/16	5 3/16	7/8	M8	1 31/32	15	4.59
6.5	1	1 1/8	2 5/16	31/32	2 15/16	5 5/16	4 1/8	8 1/32	7 7/32	6 3/32	31/32	M8	2 5/32	15	6.92
8.5	1 1/8	1 1/4	2 19/32	1 3/32	3 7/32	5 13/16	4 17/32	8 27/32	8 1/16	6 23/32	1 1/16	M10	2 3/8	29	9.61
9.5	1 1/4	1 3/8	2 27/32	1 1/4	3 17/32	6 3/8	4 31/32	9 3/4	8 13/16	7 15/32	1 3/16	M10	2 9/16	29	13.12
12	1 3/8	1 1/2	3 1/8	1 3/8	3 15/16	7 3/32	5 1/2	10 25/32	9 21/32	8 9/32	1 5/16	M10	2 3/4	29	17.35
16	1 1/2	1 5/8	3 15/32	1 1/2	4 3/16	8 1/2	6 1/4	12 9/16	9 3/4	9 1/4	3/4	M8	2 15/16	15	22.5
25	1 3/4	2	4 1/16	1 25/32	5	9 3/4	6 7/8	14 9/16	11 21/32	10 7/16	29/32	M8	3 17/32	15	36.8
30	2	2 1/4	4 21/32	1 31/32	5 3/4	10 3/4	8 5/32	16 3/16	13 1/16	12 3/32	1 1/32	M10	3 15/16	29	55
55	2 1/2	2 3/4	5 23/32	2 9/16	6 1/2	12 3/8	8 3/8	19 3/16	15 5/16	13 1/2	1 1/4	M12	4 23/32	50	99
75	3 1/4	3 1/4	6 15/32	3 9/32	7 1/4	13	10	21 5/32	17 29/32	16 17/32	1 17/32	M12	5 1/2	50	154

CAD RFID INFO

Green Pin BigMouth® Dee Shackle BN

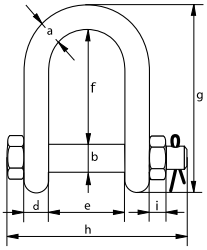
Dee shackle with a longer inside length, wider mouth and safety bolt

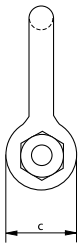
Scan for additional product details



- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

G-4553





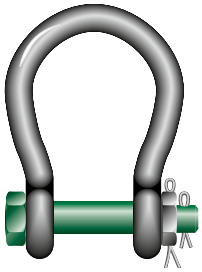
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
4.6	3/4	7/8	1 13/16	3/4	2 3/4	4 9/16	6 21/32	6 1/16	3/4	3.31
8.6	1	1 1/8	2 5/16	31/32	3 9/32	5 1/2	8 3/16	7 15/32	31/32	6.9
15.5	1 1/2	1 5/8	3 15/32	1 1/2	4 17/32	7	11 1/16	10 1/8	3/4	20.8

CAD

Green Pin BigMouth® Towing Shackle BN

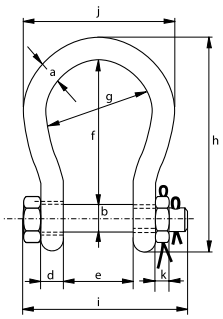
Grade 80 towing bow shackle with safety bolt and wider shackle mouth

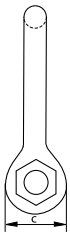
Scan for additional product details



G-4463

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for towing only, not for lifting applications





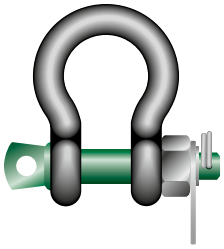
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
22	1 1/2	1 5/8	3 15/32	1 1/2	4 3/16	8 1/2	6 1/4	12 9/16	9 3/4	9 1/4	3/4	22.5
30	1 3/4	2	4 1/16	1 25/32	5	9 3/4	6 7/8	14 9/16	11 21/32	10 7/16	15/16	36.8
40	2	2 1/4	4 21/32	1 31/32	5 3/4	10 3/4	8 5/32	16 3/16	13 5/16	12 3/32	1 1/16	55
55	2 1/2	2 3/4	5 23/32	2 9/16	6 1/2	12 3/8	8 3/8	19 3/16	15 5/16	13 1/2	1 5/16	99
100	3 1/4	3 1/4	6 15/32	3 9/32	7 1/4	13	10	21 1/4	17 29/32	16 17/32	1 9/16	154

CAD

Green Pin® Catch Shackle BN

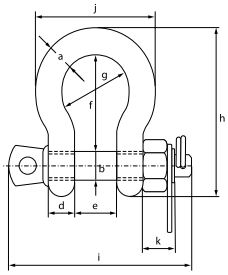
Standard bow shackle with safety bolt which enables all components to be tethered

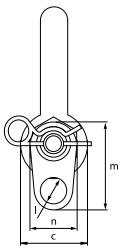
Scan for additional product details



G-4163H

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271, Type IVA, Class 3, Grade A and comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | CE IIA | ABS PDA | ABS MA
- **Article code:** scan QR code to see article codes
- **Note:** supplied without wires





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	diameter hole	height	width	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	m inch	n inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 1/2	4 1/32	2 9/32	3/4	19/32	1 29/32	1 1/16	1.04
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	4 13/16	2 15/16	29/32	19/32	2 1/8	1 1/4	1.79
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	5 5/8	3 1/2	1 1/32	19/32	2 3/8	1 7/16	2.91
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	6 5/16	4 1/32	1 5/32	19/32	2 19/32	1 5/8	4.23
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	7 7/32	4 21/32	1 1/4	19/32	2 25/32	1 13/16	6.11
9.5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	7 29/32	5 5/32	1 11/32	19/32	2 29/32	2	8.62

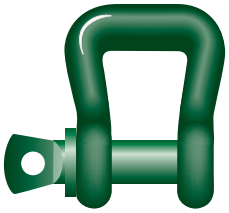
CAD | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Scan for additional product details »

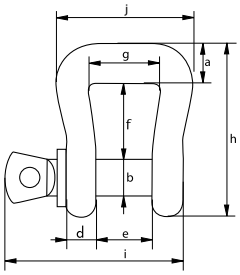
Green Pin® Web Sling Shackle SC

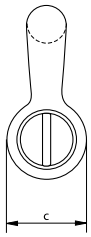
Shackle for synthetic web slings with screw collar pin



- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** EN1677-1 and ASME B30.26
- **Finish:** painted green
- **Temperature range:** -40 °C up to 200 °C
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

P-5461





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width inside	length	length bolt	width	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3.25	25/32	3/4	1 9/16	5/8	1 1/16	1 1/2	1 3/8	3 7/16	3 1/2	2 11/16	1.46
4.75	15/16	7/8	1 13/16	3/4	1 7/32	1 7/8	1 13/16	4 3/16	4 1/16	3 11/32	2.43
6.5	1 1/16	1	2 1/16	7/8	1 13/32	2 27/32	2 7/16	5 13/32	4 11/16	4 9/32	3.95
8.5	1 1/4	1 1/8	2 5/16	31/32	1 11/16	3 9/32	3 1/8	6 7/32	5 13/32	5 1/4	6.04

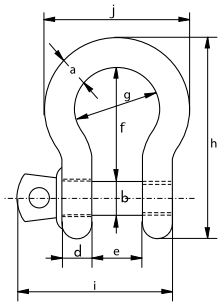
CAD

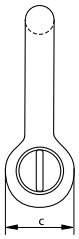
Green Pin® Theatre Shackle SC

Matte black bow shackle with screw collar pin

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:** black
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

G-4161T





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
0.33	3/16	1/4	15/32	3/16	3/8	7/8	5/8	1 13/32	1 5/32	1 1/32	0.04
0.5	1/4	5/16	5/8	9/32	15/32	1 5/32	25/32	1 7/8	1 1/2	1 11/32	0.11
0.75	5/16	3/8	25/32	11/32	17/32	1 1/4	7/8	2 7/32	1 27/32	1 9/16	0.22
1	3/8	7/16	29/32	13/32	21/32	1 15/32	1 1/32	2 17/32	2 1/8	1 13/16	0.31
1.5	7/16	1/2	31/32	7/16	3/4	1 11/16	1 5/32	2 7/8	2 11/32	2	0.42
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	2 7/8	2 5/16	0.79
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 1/2	2 15/16	1.39
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/16	3 1/2	2.23
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	4 11/16	4 1/32	3.31
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 13/32	4 21/32	4.87

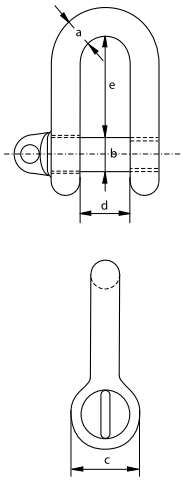
C

Shackles generally to DIN 82101 type A

Dee shackle with screw collar pin

- **Material:** bow and pin high tensile steel, grade 40
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to DIN 82101 type A
- **Finish:** hot dipped galvanized or self-coloured
- **Certification:** 2.1 2.2 CE IIA
- **Note:** shackle no. 0.1 is electro-galvanized and will not have any markings as it is too small

S-3351
G-3351



no.	working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	lbs
0.1	0.1	3/16	3/16	13/32	9/32	5/8	0.04
0.16	0.16	1/4	1/4	15/32	5/16	23/32	0.04
0.25	0.25	5/16	5/16	5/8	7/16	15/16	0.11
0.4	0.4	13/32	13/32	25/32	9/16	1 3/16	0.22
0.6	0.63	15/32	15/32	15/16	21/32	1 13/32	0.4
1	1	1/2	5/8	1 1/4	13/16	1 15/16	0.66
1.6	1.6	5/8	25/32	1 9/16	1 1/16	2 13/32	1.26
2	2	25/32	7/8	1 23/32	1 3/16	2 5/8	2.16
2.5	2.5	7/8	15/16	1 7/8	1 5/16	2 7/8	2.87
3	3.15	31/32	1 1/16	2 1/8	1 1/2	3 9/32	4.08
4	4	1 3/32	1 3/16	2 3/8	1 21/32	3 19/32	5.58
5	5	1 1/4	1 13/32	2 27/32	1 27/32	4 3/8	8.82
6	6.3	1 13/32	1 17/32	3 1/16	2 3/32	4 23/32	11.68
8	8	1 5/8	1 25/32	3 17/32	2 3/8	5 15/32	17.42
10	10	1 23/32	1 7/8	3 25/32	2 19/32	5 25/32	22
12	12	1 15/16	2 1/16	4 3/32	2 7/8	6 7/32	29.8
16	16	2 5/32	2 3/8	4 23/32	3 3/16	7 9/32	42.3
20	20	2 13/32	2 11/16	5 11/32	3 17/32	8 5/16	62
25	25	2 5/8	2 27/32	5 21/32	3 15/16	8 11/16	75

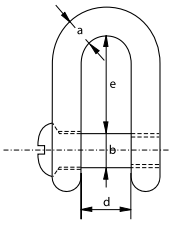
C

Shackles generally to DIN 82101 type B

Dee shackle with counter sunk screw pin

- **Material:** bow and pin high tensile steel, grade 40
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to DIN 82101 type B
- **Finish:** hot dipped galvanized or self-coloured
- **Certification:** 2.1 2.2 CE IIA
- **Note:** shackle no. 0.1 is electro-galvanized and will not have any markings as it is too small

S-3352
G-3352

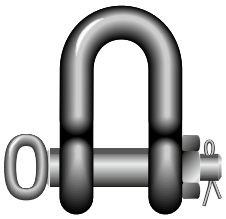


no.	working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	lbs
0.4	0.4	13/32	13/32	25/32	9/16	1 3/16	0.2
0.6	0.63	15/32	15/32	15/16	21/32	1 13/32	0.37
1	1	1/2	5/8	1 1/4	13/16	1 15/16	0.64
1.6	1.6	5/8	25/32	1 9/16	1 1/16	2 13/32	1.19
2	2	25/32	7/8	1 23/32	1 3/16	2 5/8	2.16
2.5	2.5	7/8	15/16	1 7/8	1 5/16	2 7/8	2.71
3	3.15	31/32	1 1/16	2 1/8	1 1/2	3 9/32	3.97
4	4	1 3/32	1 3/16	2 3/8	1 21/32	3 19/32	5.73
5	5	1 1/4	1 13/32	2 27/32	1 27/32	4 3/8	8.38
6	6.3	1 13/32	1 17/32	3 1/16	2 3/32	4 23/32	11.46
8	8	1 5/8	1 25/32	3 17/32	2 3/8	5 15/32	16.76
10	10	1 23/32	1 7/8	3 25/32	2 19/32	5 25/32	21.4

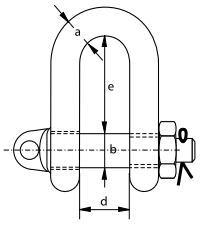
C

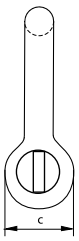
Shackles generally to DIN 82101 type C

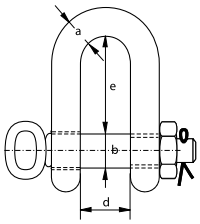
Dee shackle with safety bolt

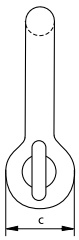


S-3356
G-3356









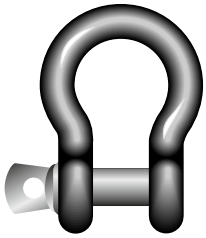
- **Material:** bow and pin high tensile steel, grade 40
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to DIN 82101 type C
- **Finish:** hot dipped galvanized or self-coloured
- **Certification:** 2.1 2.2 CE IIA
- **Note:** with screw collar pin : up to size no. 25
  with hand-grip : from size no. 32

no.	working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	lbs
0.4	0.4	13/32	13/32	25/32	9/16	1 3/16	0.24
0.6	0.63	15/32	15/32	15/16	21/32	1 13/32	0.44
1	1	1/2	5/8	1 1/4	13/16	1 15/16	0.82
1.6	1.6	5/8	25/32	1 9/16	1 1/16	2 13/32	1.52
2	2	25/32	7/8	1 23/32	1 3/16	2 5/8	2.49
2.5	2.5	7/8	15/16	1 7/8	1 5/16	2 7/8	3.31
3	3.15	31/32	1 1/16	2 1/8	1 1/2	3 9/32	4.74
4	4	1 3/32	1 3/16	2 3/8	1 21/32	3 19/32	6.46
5	5	1 1/4	1 13/32	2 27/32	1 27/32	4 3/8	10.36
6	6.3	1 13/32	1 17/32	3 1/16	2 3/32	4 23/32	13.96
8	8	1 5/8	1 25/32	3 17/32	2 3/8	5 15/32	18.96
10	10	1 23/32	1 7/8	3 25/32	2 19/32	5 25/32	23.8
12	12	1 15/16	2 1/16	4 3/32	2 7/8	6 7/32	31.7
16	16	2 5/32	2 3/8	4 23/32	3 3/16	7 9/32	45.2
20	20	2 13/32	2 11/16	5 11/32	3 17/32	8 5/16	62
25	25	2 5/8	2 27/32	5 21/32	3 15/16	8 11/16	79
32	32	2 29/32	3 5/32	6 5/16	4 11/32	9 11/16	108
40	40	2 15/16	3 17/32	7 3/32	4 29/32	10 7/8	154
50	50	3 15/32	3 15/16	7 7/8	5 1/2	12 3/32	220
63	63	3 25/32	4 11/32	8 21/32	6 3/32	13 11/32	309
80	80	4 11/32	4 29/32	9 27/32	6 7/8	15 5/32	441
100	100	4 29/32	5 1/2	11 1/32	7 7/8	16 15/16	617

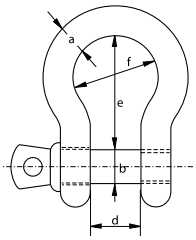
C

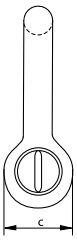
Yellow Pin Shackles

Bow shackle with screw collar pin



G-3161





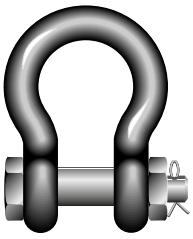
- **Material:** bow and pin high tensile steel, grade 60
- **Standard:** generally to US Fed. Spec. RR-C-271
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** import quality

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
0.33	3/16	1/4	9/16	3/8	7/8	19/32	0.07
0.5	1/4	5/16	5/8	15/32	1 5/32	25/32	0.11
0.75	5/16	13/32	3/4	17/32	1 7/32	13/16	0.18
1	13/32	7/16	29/32	21/32	1 15/32	1 1/32	0.31
1.5	7/16	1/2	1 1/16	3/4	1 11/16	1 5/32	0.44
2	1/2	5/8	1 3/16	25/32	1 7/8	1 5/16	0.73
3.25	5/8	3/4	1 1/2	1 1/16	2 3/8	1 11/16	1.37
4.75	3/4	7/8	1 13/16	1 1/4	2 25/32	1 31/32	2.36
6.5	7/8	31/32	2 3/32	1 13/32	3 5/16	2 9/32	3.57
8.5	31/32	1 3/32	2 13/32	1 11/16	3 3/4	2 11/16	5.03
9.5	1 3/32	1 1/4	2 11/16	1 13/16	4 1/4	2 29/32	7.41
12	1 1/4	1 3/8	3	2	4 11/16	3 7/32	9.5
13.5	1 3/8	1 1/2	3 5/16	2 1/4	5 1/4	3 5/8	13.54
17	1 1/2	1 21/32	3 5/8	2 3/8	5 3/4	3 27/32	17.22
25	1 25/32	1 31/32	4 3/16	2 7/8	6 31/32	5	27.8

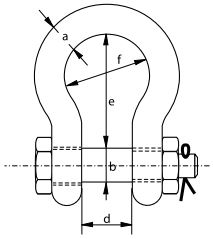
C

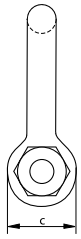
Yellow Pin Shackles

Bow shackle with safety bolt



G-3163





- **Material:** bow and pin high tensile steel, grade 60
- **Standard:** generally to US Fed. Spec. RR-C-271
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** import quality

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
2	1/2	5/8	1 3/16	25/32	1 7/8	1 5/16	0.79
3.25	5/8	3/4	1 1/2	1 1/16	2 3/8	1 11/16	1.54
4.75	3/4	7/8	1 13/16	1 1/4	2 25/32	1 31/32	2.43
6.5	7/8	31/32	2 3/32	1 13/32	3 5/16	2 9/32	3.55
8.5	31/32	1 3/32	2 13/32	1 11/16	3 3/4	2 11/16	5.34
9.5	1 3/32	1 1/4	2 11/16	1 13/16	4 1/4	2 29/32	7.39
12	1 1/4	1 3/8	3	2	4 11/16	3 7/32	11.73
13.5	1 3/8	1 1/2	3 5/16	2 1/4	5 1/4	3 5/8	15.85
17	1 1/2	1 21/32	3 5/8	2 3/8	5 3/4	3 27/32	20.8
25	1 25/32	1 31/32	4 3/16	2 7/8	6 31/32	5	30.4

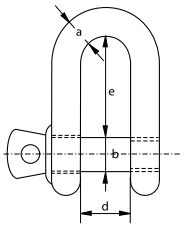
C

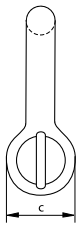
Yellow Pin Shackles

Dee shackle with screw collar pin

- **Material:** bow and pin high tensile steel, grade 60
- **Standard:** generally to US Fed. Spec. RR-C-271
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** import quality

G-3151



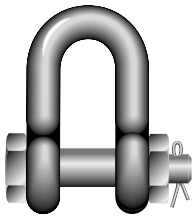


working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	lbs
0.33	3/16	1/4	15/32	3/8	3/4	0.07
0.5	1/4	5/16	5/8	15/32	7/8	0.09
0.75	5/16	13/32	3/4	17/32	1 1/32	0.18
1	13/32	7/16	29/32	21/32	1 1/4	0.29
1.5	7/16	1/2	1 1/16	3/4	1 15/32	0.44
2	1/2	5/8	1 3/16	25/32	1 5/8	0.62
3.25	5/8	3/4	1 1/2	1 1/16	2	1.26
4.75	3/4	7/8	1 13/16	1 1/4	2 3/8	2.62
6.5	7/8	31/32	2 3/32	1 13/32	2 25/32	3.15
8.5	31/32	1 3/32	2 13/32	1 11/16	3 3/16	4.76
9.5	1 3/32	1 1/4	2 11/16	1 13/16	3 17/32	6.75
12	1 1/4	1 3/8	3	2	3 15/16	9.06
13.5	1 3/8	1 1/2	3 5/16	2 1/4	4 3/8	11.64
17	1 1/2	1 21/32	3 5/8	2 3/8	4 13/16	14.75
25	1 25/32	1 31/32	4 3/16	2 7/8	5 3/4	26.7

C

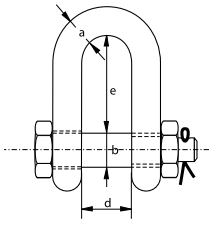
Yellow Pin Shackles

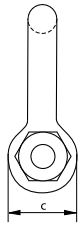
Dee shackle with safety bolt



- **Material:** bow and pin high tensile steel, grade 60
- **Standard:** generally to US Fed. Spec. RR-C-271
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** import quality

G-3153

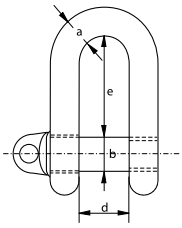


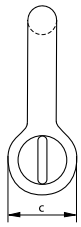


working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	lbs
2	1/2	5/8	1 3/16	25/32	1 5/8	0.73
3.25	5/8	3/4	1 1/2	1 1/16	2	1.37
4.75	3/4	7/8	1 13/16	1 1/4	2 3/8	2.25
6.5	7/8	31/32	2 3/32	1 13/32	2 25/32	3.28
8.5	31/32	1 3/32	2 13/32	1 11/16	3 3/16	4.98
9.5	1 3/32	1 1/4	2 11/16	1 13/16	3 17/32	7.05
12	1 1/4	1 3/8	3	2	3 15/16	10.82
13.5	1 3/8	1 1/2	3 5/16	2 1/4	4 3/8	12.87
17	1 1/2	1 21/32	3 5/8	2 3/8	4 13/16	18.52
25	1 25/32	1 31/32	4 3/16	2 7/8	5 3/4	26.2

C

S-2751
G-2751





Shackles generally to B.S. 3032 table 2

Large dee shackle with screw collar pin

- **Material:** bow and pin alloy steel, EN 14a
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** generally to B.S. 3032 table 2
- **Finish:** hot dipped galvanized or self-coloured
- **Certification:** 2.1 2.2 CE IIA

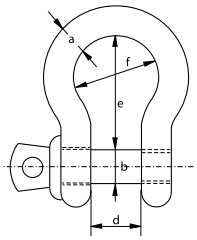
working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	lbs
0.25	1/4	13/32	3/4	1/2	31/32	0.24
0.5	13/32	1/2	31/32	3/4	1 1/2	0.37
0.75	1/2	5/8	1 1/4	1 3/32	2 1/8	0.77
1.5	5/8	3/4	1 1/2	1 1/4	2 17/32	1.46
2	3/4	7/8	1 23/32	1 1/2	2 7/8	2.25
3	7/8	31/32	2	1 23/32	3 9/32	3.46
3.75	31/32	1 3/32	2 1/4	2	3 3/4	5.07
5	1 3/32	1 1/4	2 17/32	2 1/8	4 1/8	7.05
6	1 1/4	1 3/8	2 3/4	2 3/8	4 1/2	9.48
7	1 3/8	1 1/2	3	2 5/8	5	11.9
9.5	1 1/2	1 25/32	3 1/2	2 3/4	5 13/32	14.99
11.25	1 21/32	1 7/8	3 3/4	3	5 3/4	19.18
13	1 23/32	2	4 1/32	3 9/32	6 5/32	24.3
14.25	1 7/8	2 1/8	4 1/4	3 5/8	7	31.5
16.25	2	2 1/4	4 1/2	3 27/32	7 3/8	44.1
18	2 1/8	2 3/8	4 3/4	4 1/8	7 3/4	58
20	2 1/4	2 17/32	5	4 1/4	8 9/32	62
25	2 17/32	2 7/8	5 3/4	4 3/4	9 1/4	77
30	2 3/4	3 1/8	6 1/4	5 1/4	10 1/4	108
35	3	3 3/8	6 23/32	5 3/4	10 31/32	140
40	3 1/8	3 1/2	7	5 7/8	11 1/2	158
50	3 1/2	4 1/32	8	6 23/32	13	223
65	4 1/32	4 1/2	9 1/32	7 17/32	14 3/4	333
80	4 1/2	5	10	8 5/8	16 1/2	474

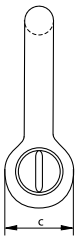
C

Commercial Shackles

Bow shackle with screw collar pin

E-1161





- **Material:** mild steel, untreated, grade 30
- **Finish:** electro-galvanized
- **Certification:** 2.1
- **Note:** not to be used for lifting applications

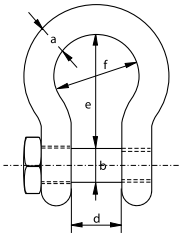
diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	f inch	lbs
3/16	3/16	13/32	13/32	25/32	19/32	3.09
1/4	1/4	15/32	15/32	15/16	23/32	5.29
5/16	5/16	5/8	5/8	1 1/4	15/16	11.9
13/32	13/32	25/32	25/32	1 9/16	1 3/16	23.4
7/16	7/16	7/8	7/8	1 23/32	1 5/16	36.2
15/32	15/32	15/16	15/16	1 7/8	1 13/32	42.8
9/16	9/16	1 3/32	1 3/32	2 7/32	1 21/32	97
5/8	5/8	1 1/4	1 1/4	2 17/32	1 7/8	97
3/4	3/4	1 1/2	1 1/2	3	2 1/4	183
7/8	7/8	1 23/32	1 23/32	3 15/32	2 19/32	256
31/32	31/32	1 31/32	1 31/32	3 15/16	2 15/16	370
1 3/32	1 3/32	2 7/32	2 7/32	4 13/32	3 5/16	511
1 1/4	1 1/4	2 17/32	2 17/32	5 1/32	3 25/32	842
1 1/2	1 1/2	3	3	5 31/32	4 1/2	1373

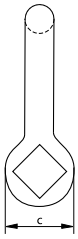
C

Commercial Shackles

Bow shackle with square head screw pin

S-1164



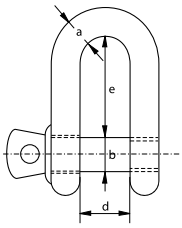


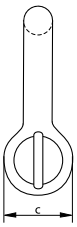
- **Material:** mild steel, untreated, grade 30
- **Finish:** self-coloured
- **Certification:** 2.1
- **Note:** not to be used for lifting applications

diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	f inch	lbs
1/4	1/4	15/32	15/32	15/16	23/32	5.95
5/16	5/16	5/8	5/8	1 1/4	15/16	14.11
13/32	13/32	25/32	25/32	1 9/16	1 3/16	27.6
7/16	7/16	7/8	7/8	1 23/32	1 5/16	36.6
15/32	15/32	15/16	15/16	1 7/8	1 13/32	47.6
9/16	9/16	1 3/32	1 3/32	2 7/32	1 21/32	76
5/8	5/8	1 1/4	1 1/4	2 17/32	1 7/8	113
3/4	3/4	1 1/2	1 1/2	3	2 1/4	220
7/8	7/8	1 23/32	1 23/32	3 15/32	2 19/32	293
31/32	31/32	1 31/32	1 31/32	3 15/16	2 15/16	430
1 3/32	1 3/32	2 7/32	2 7/32	4 13/32	3 5/16	606
1 1/4	1 1/4	2 17/32	2 17/32	5 1/32	3 25/32	904
1 1/2	1 1/2	3	3	5 31/32	4 1/2	1512

C

E-1151





Commercial Shackles

Dee shackle with screw collar pin

- **Material:** mild steel, untreated, grade 30
- **Finish:** electro-galvanized
- **Certification:** 2.1
- **Note:** not to be used for lifting applications

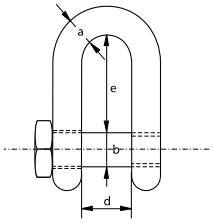
diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	lbs
3/16	3/16	13/32	13/32	25/32	3.09
1/4	1/4	15/32	15/32	15/16	4.85
5/16	5/16	5/8	5/8	1 1/4	11.46
13/32	13/32	25/32	25/32	1 9/16	26
7/16	7/16	7/8	7/8	1 23/32	30.9
15/32	15/32	15/16	15/16	1 7/8	45.2
9/16	9/16	1 3/32	1 3/32	2 7/32	65
5/8	5/8	1 1/4	1 1/4	2 17/32	94
3/4	3/4	1 1/2	1 1/2	3	160
7/8	7/8	1 23/32	1 23/32	3 15/32	238
31/32	31/32	1 31/32	1 31/32	3 15/16	408
1 3/32	1 3/32	2 7/32	2 7/32	4 13/32	498
1 1/4	1 1/4	2 17/32	2 17/32	5 1/32	789
1 1/2	1 1/2	3	3	5 31/32	1327

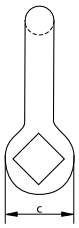
C

Commercial Shackles

Dee shackle with square head screw pin

S-1154





- **Material:** mild steel, untreated, grade 30
- **Finish:** self-coloured
- **Certification:** 2.1
- **Note:** not to be used for lifting applications

diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	lbs
1/4	1/4	15/32	15/32	15/16	5.73
5/16	5/16	5/8	5/8	1 1/4	13.6
13/32	13/32	25/32	25/32	1 9/16	26.5
7/16	7/16	7/8	7/8	1 23/32	35.3
15/32	15/32	15/16	15/16	1 7/8	45.9
9/16	9/16	1 3/32	1 3/32	2 7/32	73
5/8	5/8	1 1/4	1 1/4	2 17/32	109
3/4	3/4	1 1/2	1 1/2	3	213
7/8	7/8	1 23/32	1 23/32	3 15/32	282
31/32	31/32	1 31/32	1 31/32	3 15/16	414
1 3/32	1 3/32	2 7/32	2 7/32	4 13/32	584
1 1/4	1 1/4	2 17/32	2 17/32	5 1/32	871
1 1/2	1 1/2	3	3	5 31/32	1457

ROV SHACKLES & HOOKS

Applications

Green Pin® ROV shackles and hooks are used in sub-sea lifting operations. These products are more specialized than others. More fit to the extreme conditions under water. Like our subsea shackles and hooks for ROV operations. Green Pin® offers an ocean of possibilities with our range of specialized components. Designed and produced with the right subsea mindset. For more control. For more precision. And for more possibilities.

Range

Green Pin® offers a wide range of ROV shackles and hooks for a variety of applications. The range stretches from WLL 6.5 t to 300 t. This provides our customers with a very extensive range to choose a shackle or hook that suits their application best.

Design

Green Pin® offers four types of ROV release shackles and two types of combined release & retrieve shackles. Showpieces in this range are the Green Pin® Guided Pin ROV Shackle (for release and retrieve operations) and the Green Pin® Locking Clamp ROV (Sling) Shackle (for release operations only). ROV release shackles are available with spring pins, locking clamps or spring loaded.

Next to the shackles Green Pin® also offers two types of ROV hooks: the Green Pin® ROV Eye Hook and Green Pin® ROV Shank Hook. Both hooks can be used for release operations while the shank hook can be used for retrieve operations as well. Each hook has a wire rope attached to the latch to make operation with an ROV arm easier.

These shackles and hooks are generally marked with:

- Working Load Limit - e.g. WLL 25 T
- manufacturer's symbol - e.g. GP
- traceability code - e.g. HA indication a particular batch
- steel grade - e.g. 8
- CE conformity code (Conformité Européenne) - e.g. CE
- Origin - e.g. Holland or France

Finish

All shackle bodies and hooks are finished with a white coating for optimized visibility in poor light conditions. The pins are finished in the instantly recognizable and characteristic 'Green Pin®' colour.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

For instructions for use, assembly, etc. we refer to chapter 1 shackles for the ROV shackles, and chapter 3 for the ROV hooks. For shackles P-5363 and P-5367 the side load table is not applicable as these shackles are not allowed to be side loaded.

To keep stored ROV products in a good condition it is best to lightly oil the shackles and hooks after rinsing them with fresh water and drying.

ROV shackles and hooks must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the shackles and hooks are used in severe operating conditions.

For most ROV products is a specific user manual available, please find the digital user manuals on **greenpin.com/faq**.

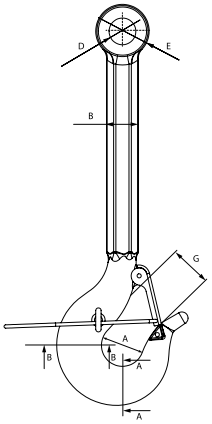
Green Pin® ROV Shank Hook E GR8

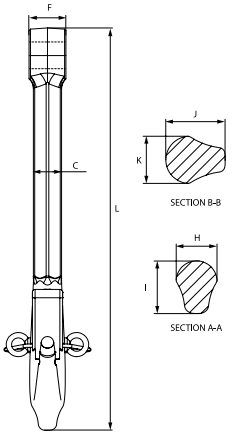
Release & retrieve ROV eye shank hook (grade 80)

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] US [b] CE IIA
- **Article code:** scan QR code to see article codes

P-6740





working load limit	diameter	thickness shank	thickness shank	diameter eye inside	diameter eye outside	width eye	opening hook	thickness	width	thickness	width	length	weight each
metric	a	b	c	d	e	f	g	h	i	j	k	l	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
12	2 15/32	1 27/32	1 21/32	1 9/16	3 5/32	1 1/2	2 1/16	1 25/32	2 9/32	2 5/8	2 3/32	23 5/8	24
16	2 25/32	2 7/32	1 31/32	1 25/32	3 17/32	1 25/32	2 13/32	2 3/32	2 5/8	3 5/32	2 15/32	25 19/32	26
22	3 5/32	2 1/2	2 7/32	2 5/32	4 11/32	2	2 23/32	2 3/8	2 15/16	3 17/32	2 29/32	26 27/32	27
32	3 17/32	2 7/8	2 17/32	2 3/8	4 23/32	2 1/8	3 1/32	2 5/8	3 17/32	4 11/32	3 7/32	31 31/32	32
55	4 29/32	4 1/32	3 17/32	2 15/16	5 29/32	2 29/32	4 1/8	3 3/4	4 21/32	5 1/2	4 13/32	36 3/16	36
80	5 1/2	4 17/32	3 31/32	3 17/32	7 3/32	3 11/16	4 21/32	4 3/16	5 13/32	6 7/8	4 29/32	41 5/16	41

CAD RFID

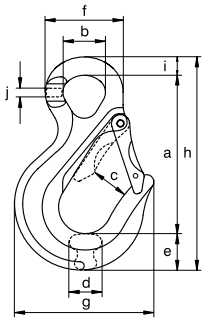
Green Pin® ROV Hook E GR8

Release ROV eye hook (grade 80)

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MPI [b]
- **Article code:** scan QR code to see article codes

CSOROV



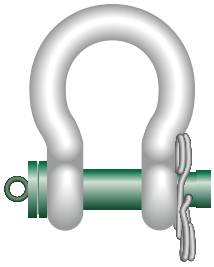
working load limit	length	diameter eye inside	opening hook	thickness	width	diameter eye outside	width outside	length outside	width	thickness	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
8.2	7 17/32	2 1/16	1 11/16	1 9/16	1 11/16	3 11/16	6 1/2	10 1/32	13/16	21/32	7.65
12.8	9 11/32	2 13/32	2 13/32	1 15/16	2 13/32	4 17/32	8 3/16	12 27/32	1 3/32	13/16	15.74
15.5	11 1/32	2 27/32	2 15/16	2 1/8	2 17/32	5 3/16	9 17/32	14 3/4	1 3/16	29/32	22.5

CAD RFID

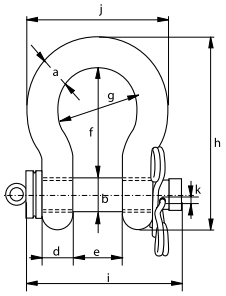
Green Pin® Spring Pin ROV Shackle

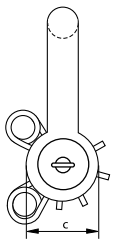
Release ROV shackle (grade 80) with spring pins

Scan for additional product details



P-5363





- **Material:** bow and pin alloy steel, grade 80, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature range:** -76 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for in-line use only.
  supplied without wires; design your own wiring plan

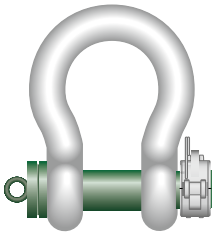
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/32	3.75
9.5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	6 17/32	5 5/32	1/4	7.5
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1/4	10.36
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	1/4	17.64
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	11/32	30
35	2	2 1/4	4 9/16	1 31/32	3 9/32	7 3/4	5 7/16	13 5/32	10 19/32	9 3/8	11/32	42.1
42.5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	11 27/32	10 25/32	11/32	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	12 15/16	12 7/32	11/32	84
85	3	3 1/4	6 3/8	2 15/16	5	12 15/16	7 15/32	20 3/4	14 3/4	13 3/8	11/32	132

CAD RFID INFO

Green Pin® Locking Clamp ROV Shackle

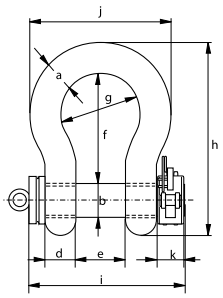
Release ROV shackle (grade 80) with locking clamp

Scan for additional product details



- **Material:** bow and pin alloy steel, grade 80, polar quality, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
  for shackles with WLL 120 t and up the MBL equals 5x WLL
- **Finish:** body painted white, pin painted green
- **Temperature range:** -76 °F up to +392 °F (-40 °F up to +392 °F for WLL 120 t and up)
- **Certification:** 2.1 2.2 3.1 MTC [a] MTC [b] * LROS * CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** supplied without wires; design your own wiring plan

P-5365



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	width locking clamp	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs	lbs
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	6 15/32	5 1/2	4 1/32	1 25/32	1.98	4.78
9.5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 7/8	6 25/32	5 5/32	1 7/8	3.53	9.37
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	8 3/8	7 1/4	5 25/32	1 7/8	4.19	11.82
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	10 15/32	8 7/32	6 7/8	1 7/8	7.5	20.4
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	12 5/32	9 9/16	8 1/2	1 7/8	11.02	32.2
35	2	2 1/4	4 9/16	1 31/32	3 9/32	7 3/4	5 7/16	13 25/32	10 19/32	9 3/8	1 7/8	14.33	45.6
42.5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	11 27/32	10 25/32	1 7/8	22.5	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 5/16	12 15/16	12 7/32	1 7/8	26.5	90
85	3	3 1/4	6 3/8	2 15/16	5	12 15/16	7 15/32	20 3/4	14 3/4	13 3/8	1 7/8	38.6	134
120	3 3/4	3 3/4	8 3/16	3 19/32	5 25/32	15 3/4	9 3/8	25 15/32	17 5/16	16 27/32	2 3/8	65	243
150	4 1/8	4 1/4	9 3/8	4 1/32	6 21/32	16 5/32	10 13/16	27 3/32	19 9/32	19 3/32	2 3/8	85	353
200	4 23/32	5 1/8	10 31/32	4 7/16	7 1/16	20 3/16	11 13/32	33	20 15/32	20 7/8	2 3/8	134	518
250	5 1/8	5 1/2	11 25/32	4 21/32	8 1/16	21 13/16	12	35 19/32	22 1/16	22 1/4	2 3/8	165	628

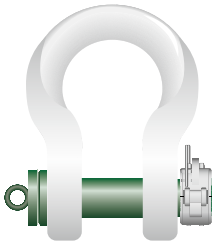
CAD RFID INFO

* For shackles ≥ WLL 150 t

Green Pin® Locking Clamp ROV Sling Shackle

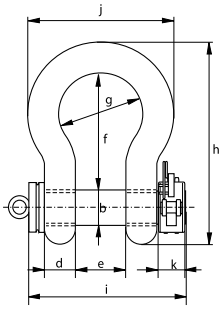
Release ROV Sling shackle (grade 80) with locking clamp

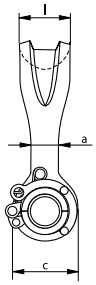
Scan for additional product details



P-6065

- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** shackle bow painted white, pin painted green
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] CE IIA **Optional*:** LROS MPI [b] US [b]
- **Article code:** scan QR code to see article codes





working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	width locking clamp	bearing surface	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	lbs	lbs
12.5	1 1/8	1 1/8	2 13/32	31/32	1 23/32	4 3/4	3 7/32	7 3/4	5 5/8	5 3/4	1 7/32	2 1/8	2.65	9.41
18	1 3/8	1 3/8	2 23/32	1 3/16	2 1/8	5 13/16	4 1/32	9 13/32	7 1/4	7 3/32	1 7/32	2 17/32	4.19	15.1
30	1 9/16	1 21/32	3 17/32	1 3/8	2 23/32	6 1/2	4 31/32	10 31/32	8 9/32	7 7/8	1 9/16	3 1/8	7.72	27.6
40	2 5/32	2	4 9/32	1 25/32	3 5/16	7 27/32	5 1/2	13 1/32	10 3/32	9 1/4	1 9/16	3 13/16	11.9	44.8
55	2 3/8	2 1/4	4 17/32	2 5/32	3 17/32	9 7/16	6 5/16	15 5/16	11 3/8	10 5/8	1 9/16	3 15/16	15.43	67
75	2 11/16	2 3/4	4 29/32	2 1/8	4 11/32	11 13/32	7 9/32	18 5/8	12 15/32	12 15/32	1 9/16	4 23/32	25.6	99
125	3 11/32	3 5/32	6 1/16	3 11/32	5 13/32	14 13/32	8 21/32	22 15/16	16 1/4	15 11/32	1 9/16	5 29/32	39.9	203
150	3 11/16	3 3/4	7 1/16	3 1/2	5 25/32	15 13/32	9 31/32	25 13/32	17 17/32	17 3/32	2 5/32	6 11/16	64	309
200	4 11/32	4 1/8	7 27/32	3 15/16	6 7/32	18 15/16	11 1/32	29 7/8	18 29/32	18 31/32	2 5/32	8 1/16	82	452
250	4 31/32	4 23/32	8 15/16	4 11/32	7 1/16	21 11/32	11 13/16	33 13/16	20 19/32	20 7/8	2 5/32	9 7/16	109	582
300	5 5/16	5 9/32	9 21/32	4 13/16	7 11/16	23 21/32	13 25/32	37 9/32	22 5/32	24 13/32	2 5/32	10 7/16	147	794

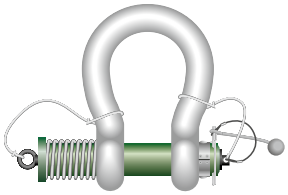
CAD RFID INFO

* With additional charges

Scan for additional product details

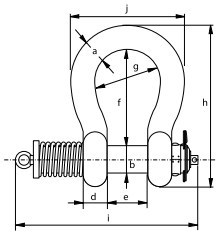
Green Pin® Spring Release ROV Shackle

Release ROV shackle (grade 80) with spring



P-5367

- **Material:** bow and pin alloy steel, grade 80, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MTC [b] * LROS * CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for in-line use only.
this shackle is assembled with wire rope slings and monkey's fist. For size starting from WLL 42.5 t up to and including 150 t a special compression tool (sold separately) is required to assemble the shackle.



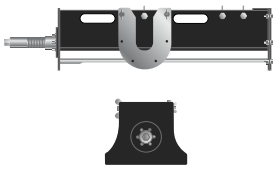
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs	lbs
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	11 15/32	5 25/32	4.41	11.55
13.5	1 3/8	1 1/2	3 5/32	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	11 27/32	6 3/8	5.29	15.43
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	14 3/16	6 7/8	7.72	20.4
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	14 9/16	8 1/2	11.46	34.2
35	2	2 1/4	4 9/16	1 31/32	3 9/32	7 3/4	5 7/16	13 5/32	15 3/4	9 3/8	15.65	45
42.5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	18 1/8	10 25/32	24.9	86
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	19 9/32	12 7/32	30.4	93
85	3	3 1/4	6 3/8	2 15/16	5	12 15/16	7 15/32	20 3/4	23 1/8	13 3/8	51	148
120	3 3/4	3 3/4	8 3/16	3 19/32	5 25/32	15 23/32	9 3/8	25 7/16	27 1/16	16 27/32	82	271
150	4 1/8	4 1/4	9 3/8	4 1/32	6 21/32	16 5/32	10 13/16	27 3/32	28 5/8	19 3/32	108	370

* For shackles ≥ WLL 150 t

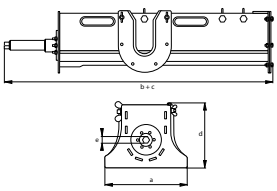
CAD RFID INFO

Green Pin® Compression Tool

Tool to wind up spring release shackle (sizes WLL 42.5 t and up)



P-5368



- **Material:** mild steel
- **Finish:** black painted
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes
- **Note:** required for ROV spring release shackle (type P-5367), for sizes WLL 42.5 t and up

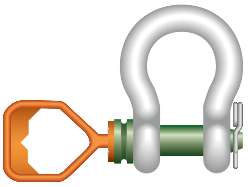
for shackle WLL	diameter bow	diameter pin	width	length closed position	length opened position	height	width	weight each
metric t	inch	inch	a inch	b inch	c inch	d inch	e inch	lbs
42.5	2 1/4	2 9/16	11 13/16	39 3/8	59 1/16	8 27/32	15/16	75
55	2 1/2	2 3/4						
85	3	3 1/4						
120	3 3/4	3 3/4	13 3/8	43 5/16	68 29/32	11 7/32	15/16	93
150	4 1/8	4 1/4						

CAD INFO

Scan for additional product details

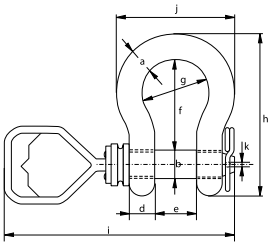
Green Pin® Tapered Pin ROV Shackle D

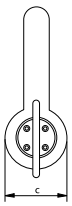
Release & retrieve ROV shackle (grade 80) with tapered pin and D-handle



P-5361D

- **Material:** bow and pin alloy steel, grade 80, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature range:** -76 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** supplied without wires; design your own wiring plan



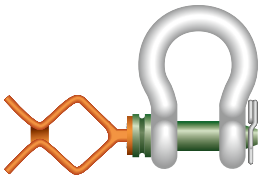


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	13 19/32	4 1/32	1/8	8.36
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	15	5 5/32	7/32	11.86
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	15 15/32	5 25/32	1/4	14.33
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	16 13/32	6 7/8	11/32	18.06
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	18 9/32	8 1/2	11/32	31.3
35	2	2 1/4	4 3/8	1 31/32	3 9/32	7 3/4	5 7/16	13 1/32	19 1/16	9 3/8	11/32	43.9
42.5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	20 5/16	10 25/32	9/32	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	21 15/32	12 7/32	9/32	87

CAD INFO

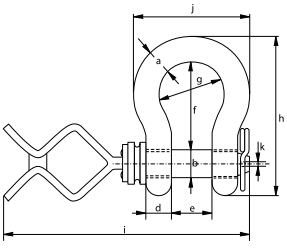
Green Pin® Tapered Pin ROV Shackle F

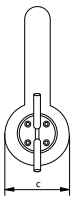
Release & retrieve ROV shackle (grade 80) with tapered screw pin and Fishtail handle



P-5361F

- **Material:** bow and pin alloy steel, grade 80, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature range:** -76 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** supplied without wires; design your own wiring plan





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	16 1/2	4 1/32	1/8	8.95
9.5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	17 29/32	5 5/32	7/32	8.07
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	18 3/8	5 25/32	1/4	10.82
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	19 11/32	6 7/8	11/32	18.06
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	21 3/16	8 1/2	11/32	31.3
35	2	2 1/4	4 3/8	1 31/32	3 9/32	7 3/4	5 7/16	13 1/32	21 21/32	9 3/8	11/32	43.9
42.5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	23 7/32	10 25/32	9/32	62
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	24 3/8	12 7/32	9/32	87

CAD INFO

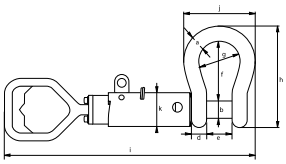
Scan for additional product details

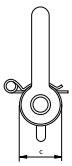
Green Pin® Guided Pin ROV Shackle D

Release & retrieve ROV shackle (grade 80) with guiding tube and D-handle

P-5362D

- **Material:** shackle body and pin alloy steel, grade 80, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature range:** -76 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



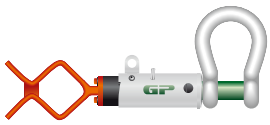


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt		width	guide diameter	weight each
									close	open			
metric	a	b	c	d	e	f	g	h	i		j	k	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch		inch	inch	lbs
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	22 13/32	25 21/32	5 25/32	3 9/32	22
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	24 3/32	27 15/16	6 7/8	3 9/32	28.7
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	26 7/8	31 9/16	8 1/2	3 9/32	41.9
35	2	2 1/4	4 3/8	1 31/32	3 9/32	7 3/4	5 7/16	13 1/32	28	33 7/32	9 3/8	3 9/32	53
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	32 7/16	39 1/8	12 7/32	4 1/32	99

CAD INFO

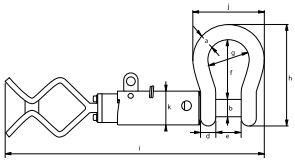
Green Pin® Guided Pin ROV Shackle F

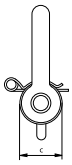
Release & retrieve ROV shackle (grade 80) with guiding tube and Fishtail handle



P-5362F

- **Material:** shackle body and pin alloy steel, grade 80, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature range:** -76 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt		width	guide diameter	weight each
									close	open			
metric	a	b	c	d	e	f	g	h	i		j	k	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch		inch	inch	lbs
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	25 5/16	28 19/32	5 25/32	3 9/32	22
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	27	30 7/8	6 7/8	3 9/32	28.7
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	29 13/16	34 1/2	8 1/2	3 9/32	41.9
35	2	2 1/4	4 3/8	1 31/32	3 9/32	7 3/4	5 7/16	13 1/32	30 29/32	36 5/32	9 3/8	3 9/32	53
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	35 11/32	42 1/16	12 7/32	4 1/32	99

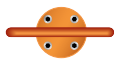
CAD INFO

Scan for additional product details

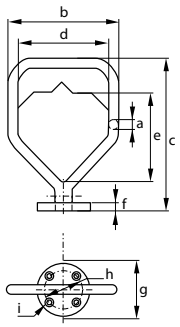
Green Pin® D-handle

Accessory for Green Pin® ROV Shackle

- **Material:** cast steel
- **Finish:** painted orange
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes



P-5396D



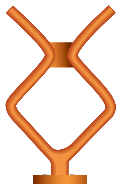
diameter	width	length	width	length inside	thickness	diameter	diameter	diameter	weight each
a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
3/4	6 1/32	8 15/32	4 17/32	4 11/32	13/32	2 3/4	1 7/8	11/32	3.79

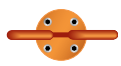
CAD

Green Pin® Fishtail handle

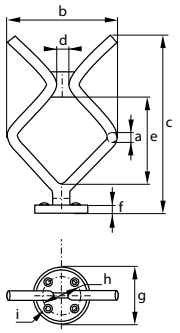
Accessory for Green Pin® ROV Shackle

- **Material:** cast steel
- **Finish:** painted orange
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes





P-5396F



diameter	width	length	width	length inside	thickness	diameter	diameter	diameter	weight each
a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
3/4	7	11 3/8	13/16	5 1/4	13/32	2 3/4	1 7/8	11/32	4.25

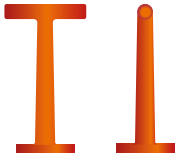
CAD

Scan for additional product details

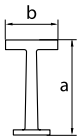
Green Pin® T-handle

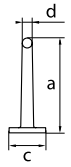
Accessory for Green Pin® ROV Shackle

- **Material:** cast steel
- **Finish:** painted orange
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes



P-5396T





diameter	width	length	length inside	thickness	diameter	diameter	diameter	weight each
a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
3/4	3 15/16	7 1/8	5 31/32	13/32	2 3/4	1 7/8	11/32	2.18

CAD

Green Pin® Monkey fist

Accessory for Green Pin® ROV Shackle

- **Material:** polymer
- **Finish:** painted orange
- **Article code:** scan QR code to see article codes

F-5396M

LIFTING SLING FITTINGS

Applications

Lifting sling fittings are used for the manufacturing of steel chain, Green Pin Tycan® chain, synthetic or steel wire rope slings. With the lifting sling fittings, you can manufacture different configurations; for example, 1 and 2 leg slings or 3 and 4 leg slings. Depending on the type of sling, chain or steel wire rope the fittings have a safety factor of 4 or 5.

Range

Green Pin® offers a wide range of lifting sling fittings such as chain fittings, thimbles, wire rope clips, sleeves, sockets etc. With the wide range of lifting sling fittings, a complete sling from the top master link to the hooks can be assembled.

To complement the Green Pin® assortment, Royal Van Beest also offers a wide range of other (commercial) lifting components.

Finish

The finish of the lifting components is either self-coloured, painted, electro-galvanized or hot dipped galvanized. You can find the finish per product on the product page itself.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

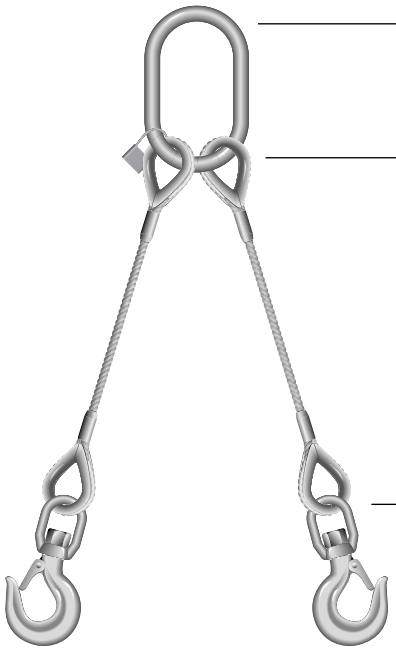
Index

To create an easy overview that shows directly which products can be used per type of chain, this chapter has been split up in five subchapters.

Please find below which type of products can be found per subchapter.

3.1 For Wire Rope

In the wire rope subchapter, you will find the components which can be used to make a wire rope sling.



Top Links (page 88)
Master Links and Master Link Assemblies

Sling accessories (page 98)
Thimbles
Wire rope clips
Sleeves

End-fittings (page 120)
Sockets
Swivels
Hooks

Accessories (page 142)
Tags
Chip

3.2 For Grade 80 chain

In the grade 80 subchapter, you will find the components which can be used to make a grade 80 steel chain sling.

Top Links (page 150)
Master Links and Master Link Assemblies

Connectors (page 152)
Links

Chain (page 153)
Grade 80 steel chain

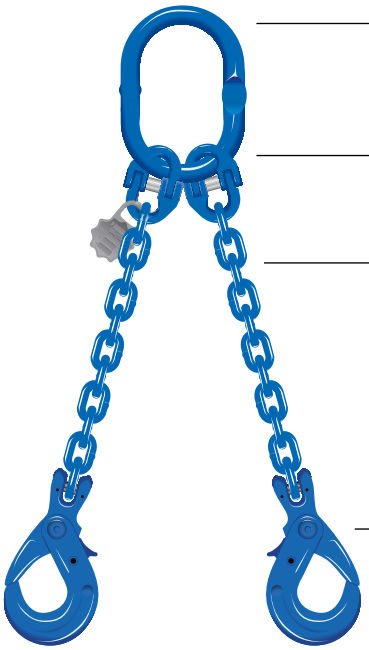
Shorteners (page 154)
Shortening hooks
Shortening clutches

End-fittings (page 156)
Hooks

Accessories (page 167)
Tags
Chip
Spareparts

3.3 For Grade 100 chain

In the grade 100 subchapter, you will find the components which can be used to make a grade 100 steel chain sling.



Top Links (page 180)
Master Links and Master Link Assemblies

Connectors (page 184)
Links

Chain (page 185)
Grade 100 steel chain

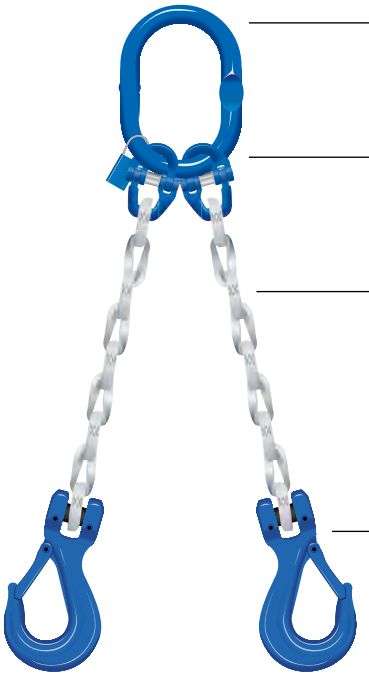
Shorteners (page 186)
Shortening hooks
Shortening clutches

End-fittings (page 189)
Hooks

Accessories (page 195)
Tags
Chip
Spareparts

3.4 For Green Pin Tycan® chain

In the Green Pin Tycan® subchapter, you will find the components which can be used to make a Green Pin Tycan® lifting fibre chain sling.



Top Links (page 208)
Master Links and Master Link Assemblies

Connectors (page 212)
Links

Chain (page 214)
Green Pin Tycan® fibre lifting chain

Shorteners (page 215)
Shortening hooks

End-fittings (page 216)
Hooks

Accessories (page 219)
Tags
Chip
Spareparts

3.5 For synthetic slings

In the synthetic sling subchapter, you will find the components which can be used to make a synthetic sling chain.

Top Links (page 228)
Master Links and Master Link Assemblies

Connectors (page 230)
Links

End-fittings (page 231)
Hooks

Slings accesories (page 232)
Thimbles

Accessories (page 241)
Tags
Chip
Spareparts

LIFTING SLING FITTINGS FOR WIRE ROPE

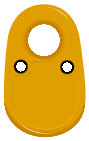
Applications

Green Pin® fittings for wire rope slings enable the assembly of a complete wire rope sling from the top master link to the hooks. Wire rope slings are often used for rigging and lifting applications that require heavy-duty slings that are abrasion-resistant but still flexible.

Specific product information can be found on the page mentioned in the following product groups overview.

Top links					
MS page 88	**MTS** page 89	**UMS** page 90	**UMTS** page 91	**UMSW** page 92	**UMTSW** page 93
P-6810 page 94	**P-6820** page 95	**P-6815** page 96			
Sling accessories					
E-6110 page 98	**G-6120** page 98	**G-6128** page 99	**E-6131/G-6131** page 100	**S-6134** page 101	**E-6135/G-6135** page 102
G-6170 page 103	**G-6142** page 104	**G-6151** page 104	**P-6190** page 105	**P-6195** page 105	

Table continues on next page

G-6240 page 109	**E-6260** page 110	**E-6220** page 111			
S-6500 page 113	**A-6550** page 114				
End-fittings					
G-6411 page 120	**G-6412** page 121	**G-6422** page 122	**G-6413** page 123	**G-6423** page 124	**G-6419** page 125
G-6429 page 126	**G-6416** page 127	**S-6414** page 128	**S-6415** page 129		
G-7713 page 131	**G-7723** page 131	**G-7733** page 132	**P-7740** page 132		
CSO page 135	**CSE** page 135	**P-6714A** page 136	**P-6703A** page 137	**XLO** page 138	**GKO** page 138
XLE page 139	**GKE** page 139	**P-6706A** page 140	**P-6714C** page 141		
Accessories					
TAG page 142	 **TAGRFID** page 143	**CHIPRFID** page 143			

Instructions for use

When chain fittings with a safety factor of 4 : 1 are used in combination with steel wire rope the WLL must be reduced by 20 %. This is the difference between a design factor of 4 : 1 (for chain slings) and 5 : 1 (for steel wire rope slings).

See table below:

Working Load Limit (metric t)		Minimum Breaking Load (metric t)
4 : 1 Safety factor	5 : 1 Safety factor	
1.12	0.896	4.48
1.25	1	5
1.6	1.28	6.4
2	1.6	8
2.5	2	10
3.2	2.56	12.8
3.5	2.8	14
3.65	2.92	14.6
4.5	3.6	18
5.4	4.32	21.6
6.2	4.96	24.8
6.5	5.2	26
6.8	5.44	27.2
8.2	6.56	32.8
8.5	6.8	34
10	8	40
10.6	8.48	42.4
11	8.8	44
11.2	8.96	44.8
11.5	9.2	46
12.8	10.24	51.2
13	10.4	52
15.5	12.4	62
16	12.8	64
17	13.6	68
17.7	14.16	70.8
20	16	80
20.8	16.64	83.2
21.2	16.96	84.8
21.6	17.28	86.4
22	17.6	88
25	20	100
27.6	22.08	110.4
30	24	120
31.5	25.2	126
32.8	26.24	131.2
37	29.6	148
40	32	160
41.6	33.28	166.4
50	40	200
60	48	240
63	50.4	252
80	64	320
100	80	400
125	100	500

LIFTING SLING FITTINGS FOR WIRE ROPE

MASTER LINKS & MASTER LINK ASSEMBLIES

Applications

Master links are the connection between the (crane) hook and wire rope fittings. The Green Pin® wire rope master links have a large opening to accommodate for larger lifting points and crane hooks. The welded master link designed for 1 or 2 legs and the master link assembly for 3 or 4 legs. A flat part on the link enables assembly with an omega link or with a thimble.

More information about the range, certification and finish, please go to the introduction of chapter 3 lifting slings.

Design

The Green Pin® Wider Master Link and Master Link Assembly are Grade 100 master links with larger inside dimensions.

The Green Pin® DNV Master Link and Master Link Assembly are grade 80 master links and are perfect for offshore use. This welded master link is DNV-certified.

The Green Pin® Heavy Duty Master Link is a grade 80 master link for heavy-duty applications. The consistent Charpy V value of at least 42 J at -4 °F and 27 J at -40 °F throughout the entire master link, makes it compliant with offshore certification requirements. The master links are fully forged as a single piece.

Wire rope master links are generally marked with:

- manufacturer's symbol - e.g. GP
- size in mm and/ or inch - e.g. 25 and/or 1"
- traceability code - e.g. HA
- steel grade (specific products) - e.g. 8 or 10
- item code (specific products) - e.g. UMSW

As prescribed by the Machinery Directive 2006/42/EC our hooks, master links and connecting links are supplied with a CE Declaration of Incorporation (CE IIB), stating the products are in compliance with the requirements of the machinery directive. These products do not have a CE marking, since CE markings are only to be provided for machines, whereas hooks, master links and connecting links are components of machines, and not machines themselves. Providing components with a CE marking is an incorrect interpretation of the Machinery Directive.

Machinery definition according to Machinery Directive 2006/42/EC – Article 2 – definitions (a) and Machinery Regulation 2023/1230/EU

"An assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort."

"The maximum working load shall be prominently marked on the lifting machinery. The marking shall be legible, indelible and in an un-coded form. Where the maximum working load depends on the configuration of the lifting machinery, each operating position shall be provided with a load plate indicating, preferably in diagrammatic form or by means of tables, the working load permitted for each configuration."

This definition means that a sling is a Machine and that the hooks, master links and connecting links are not considered as a machine themselves, but as components of a machine. The CE and the WLL markings in consequence, are mandatory only on the assembled sling tag as the sling is the machine according to MD 2006/42/EC. This rule is still valid with the new Machine Regulation 2023/1230 which will replace the MD cited previously within early 2027.

Instructions for use

Master links and master link assemblies, should be inspected before use to ensure that:
- all markings are legible.
- Master links and master link assemblies with the correct WLL has been selected with respect to the sling design.
- Master links and master link assemblies are free from nicks, gouges, and cracks.
- Master links and master link assemblies are not heat treated, modified, repaired, or reshaped by machining or bended. (This may affect their Working Load Limit).
- Master links and master link assemblies are not distorted or unduly worn.

Master links and master link assemblies must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months, and more frequently when the links are used in severe operating conditions.

Symmetry of loading

The WLL values mentioned are based on symmetrical loading of the sling. This means that when the load is lifted the sling legs are symmetrically distributed in the plane and all legs of the sling have the same angle to the vertical. The loading can be assumed to be symmetric if all the following conditions are met:
- the load is less than 80 % of marked WLL, and
- sling leg angles to the horizontal are all less then 75° and
- sling leg angles to the vertical are all within 15° to each other, and
- in the case of three- and four-leg slings, the plane angles are within 15° of each other.

If one of the above parameters is not met, the loading should be considered to be asymmetric, and the lift should be referred to a competent engineer to establish the safe rating for the sling. Alternatively, in the case of asymmetric loading, the sling should be derated to half the marked WLL. If the load tends to tilt during the lift, it should be lowered, and the attachments changed by repositioning the attachment points or by using compatible shortening devices. The safety factor of 4 or 5 on the individual components is designed for safety only. Never exceed the indicated WLL.

Use the below reduction table if a multi leg sling for wire rope fittings is not used for the purpose for which it has been designed, for example for a lifting operation with fewer legs than the number of legs of the sling:

Types of chain sling	Number of legs used	Factor to apply to marked WLL
Two-leg	1	1/2
Three- and four-leg	2	2/3
Three- and four-leg	1	1/3

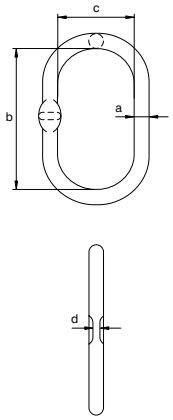
Green Pin® Master Link EN 1677-4 GR8

Grade 80 master link EN 1677-4

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-4, ASTM A952/952M and ASME B30.9
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 50 t without flat part. For use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

MS



diameter	diameter chain 1 leg	diameter chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a		90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	metric	b	c	d	
inch	inch	inch	inch	inch	t	inch	inch	inch	lbs
1/2	7/32 - 1/4	-	7/32	7/32 - 1/4	1.6	4 17/32	2 3/8	9/32	0.88
5/8	5/16	7/32 - 1/4	1/4 - 5/16	5/16	3.2	4 23/32	2 3/4	9/32	1.32
23/32	3/8	5/16	3/8	3/8	4.5	5 5/16	2 15/16	11/32	1.85
25/32	1/2	3/8	-	1/2	6.2	5 29/32	3 7/32	7/16	2.43
7/8	5/8	-	1/2	5/8	8.2	6 11/16	3 17/32	9/16	3.53
31/32	3/4	1/2	-	3/4	10.6	7 15/32	4 1/16	9/16	5.07
1 3/32	3/4	-	5/8	3/4	12.8	8 7/32	4 23/32	21/32	6.83
1 3/16	3/4 - 7/8	5/8	3/4	3/4 - 7/8	15.5	9 1/4	4 29/32	21/32	8.82
1 13/32	-	3/4	3/4	-	20	10 5/8	5 23/32	7/8	14.55
1 1/2	1	3/4	7/8	1	25	9 27/32	5 29/32	7/8	15.65
1 25/32	1 1/4	1	1	1 1/4	37	11 13/16	7 7/8	7/8	26.7
1 31/32	-	-	1 1/4	-	50	14 31/32	7 7/8	-	39.7
2 5/32	-	1 1/4	-	-	63	14 3/16	7 7/8	-	46.3
2 3/4	-	-	-	-	100	19 11/16	9 27/32	-	97
3 5/32	-	-	-	-	125	19 13/16	11 1/32	-	134

CAD INFO

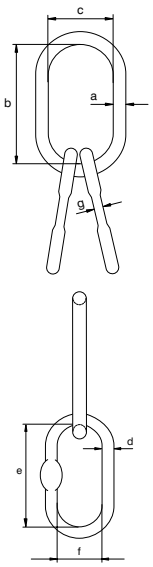
* Could be (for some sizes) delivered with a yellow or red finish

Green Pin® Master Link Assembly EN 1677-4 GR8

Scan for additional product details »

Grade 80 master link assembly EN 1677-4

MTS



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-4, ASTM A952/952M and ASME B30.9
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 60 t without flat part. For use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

diameter	diameter chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
5/8	-	7/32	7/32 - 1/4	2.5	4 23/32	2 3/4	1/2	4 17/32	2 3/8	9/32	2.65
23/32	7/32	7/32 - 1/4	5/16	3.5	5 5/16	2 15/16	5/8	4 23/32	2 3/4	9/32	6.83
7/8	1/4 - 5/16	5/16	3/8	6.5	6 11/16	3 17/32	23/32	5 5/16	2 15/16	11/32	7.28
31/32	3/8	3/8	1/2	8.5	7 15/32	4 1/16	25/32	5 29/32	3 7/32	7/16	9.92
1 3/32	-	-	-	10	8 7/32	4 23/32	25/32	5 29/32	3 7/32	7/16	11.9
1 3/16	-	1/2	5/8	13	9 1/4	4 29/32	7/8	6 11/16	3 17/32	9/16	15.87
1 13/32	1/2	5/8	3/4	17	10 5/8	5 23/32	31/32	7 15/32	4 1/16	9/16	24.7
1 1/2	-	-	3/4	20.8	9 27/32	5 29/32	1 3/32	8 7/32	4 23/32	21/32	29.3
1 25/32	5/8 - 3/4	3/4	7/8	30	11 13/16	7 7/8	1 13/32	10 5/8	5 23/32	7/8	56
1 31/32	3/4 - 7/8	7/8	1	40	14 31/32	7 7/8	1 1/2	9 27/32	5 29/32	7/8	71
2 5/32	-	1	1 1/4	50	14 3/16	7 7/8	1 1/2	9 27/32	5 29/32	7/8	78
2 3/8	1	-	-	60	16 15/16	8 21/32	1 25/32	11 13/16	7 7/8	1 25/32	119
2 3/4	-	1 1/4	-	80	19 11/16	9 27/32	2 5/32	14 3/16	7 7/8	2 5/32	190
3 5/32	1 1/4	-	-	100	19 13/16	9 27/32	2 5/32	14 3/16	7 7/8	2 5/32	227

CAD INFO

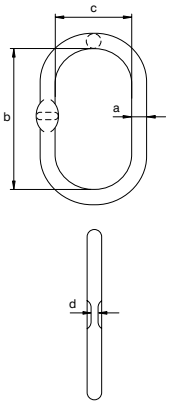
* Could be (for some sizes) delivered with a yellow or red finish

Green Pin® Master Link GR10

Grade 100 master link

Scan for additional product details

UMS



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with values for grade 100 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** for use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

diameter	diameter chain 1 leg	diameter chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a inch	inch	90° γ ≥ 60° inch	60°> γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	lbs
1/2	7/32	-	7/32	7/32	2	4 17/32	2 3/8	9/32	0.88
5/8	9/32 - 5/16	7/32	-	9/32 - 5/16	3.2	4 23/32	2 3/4	9/32	1.32
23/32	3/8	9/32 - 5/16	9/32 - 5/16	3/8	5.4	5 5/16	2 15/16	11/32	1.85
7/8	1/2	3/8	3/8	1/2	8.2	6 11/16	3 17/32	7/16	3.53
31/32	5/8	-	1/2	5/8	11.2	7 15/32	4 1/16	9/16	4.78
1 3/16	3/4	-	5/8	3/4	16	9 1/4	4 29/32	21/32	8.82
1 1/2	7/8	3/4	3/4 - 7/8	7/8	27.6	9 27/32	5 29/32	7/8	15.65

CAD

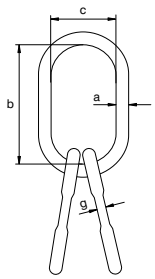
Green Pin® Master Link Assembly GR10

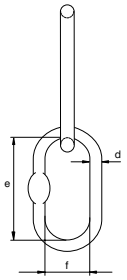
Grade 100 master link assembly

Scan for additional product details »

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with values for grade 100 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** for use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

UMTS





diameter	diameter chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
23/32	-	7/32	7/32	3.65	5 5/16	2 15/16	5/8	4 23/32	2 3/4	9/32	4.34
7/8	9/32 - 5/16	9/32 - 5/16	9/32 - 3/8	6.8	6 11/16	3 17/32	23/32	5 5/16	2 15/16	11/32	7.28
1 3/32	3/8	3/8	1/2	11	8 7/32	4 23/32	25/32	5 29/32	3 7/32	7/16	11.9
1 13/32	1/2	1/2	5/8	17.7	10 5/8	5 23/32	31/32	7 15/32	4 1/16	9/16	24.7
1 1/2	-	5/8	3/4	21.2	9 27/32	5 29/32	1 3/16	9 1/4	4 29/32	21/32	33.3
1 31/32	3/4	3/4	7/8	41.6	14 31/32	7 7/8	1 1/2	9 27/32	5 29/32	7/8	71

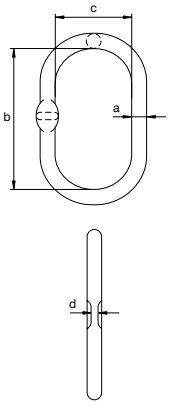
CAD

Green Pin® Wider Master Link GR10

Grade 100 wider master link

Scan for additional product details

UMSW



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with values for grade 100 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

working load limit	diameter	length inside	width inside	thickness	weight each
metric t	a inch	b inch	c inch	d inch	lbs
4.1	21/32	6 5/16	3 17/32	11/32	1.87
6.7	3/4	6 5/16	3 17/32	11/32	2.38
11.5	31/32	8 9/32	4 17/32	1/2	5.36
17	1 5/16	10 5/8	5 1/2	21/32	11.9
27.7	1 1/2	10 13/16	5 29/32	13/16	16.53
45	1 31/32	14 31/32	7 7/8	1 31/32	39
64	2 7/32	15 3/4	7 7/8	2 7/32	52

CAD

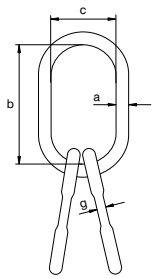
Green Pin® Wider Master Link Assembly GR10

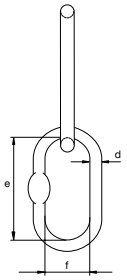
Grade 100 wider master link assembly

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with values for grade 100 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMTSW





working load limit	diameter	length inside	width inside	diameter	length inside	width inside	thickness	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
4.3	3/4	6 5/16	3 17/32	9/16	4 23/32	2 3/4	11/32	4.32
6.7	29/32	7 3/32	3 15/16	21/32	6 5/16	3 17/32	11/32	7.72
28.1	1 9/16	11 13/16	6 5/16	1 5/16	10 5/8	5 1/2	21/32	43.7
38.3	1 25/32	13 3/8	7 3/32	1 1/2	10 13/16	5 29/32	13/16	61
75	2 3/8	15 3/4	7 7/8	1 31/32	14 31/32	7 7/8	1 31/32	138

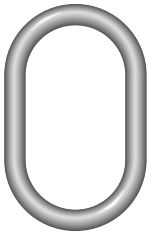
CAD

Green Pin® DNV Master Link

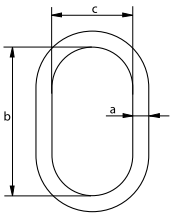
Grade 80 master link

Scan for additional product details

- **Material:** alloy steel, grade 80
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** DNV 2.7-1, EN 12079-2 and EN 1677-4
- **Finish:** painted silver
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [b] | MPI [b] | DNV 2.7-1 [a] | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** size WLL 75 t and 100 t have a temperature range of -4 °F up to +392 °F



P-6810



working load limit	diameter	length inside	width inside	weight each
metric t	a inch	b inch	c inch	lbs
4.1	5/8	5 29/32	2 15/16	1.5
7	7/8	10 5/8	5 1/2	5.03
9.3	1 1/32	10 5/8	5 1/2	6.86
14.5	1 3/32	10 5/8	5 1/2	8.33
19.5	1 3/32	7 7/8	4 11/32	6.61
19	1 1/4	10 5/8	5 1/2	11.07
26	1 13/32	10 5/8	5 1/2	14.24
30.5	1 9/16	11 1/32	6 3/32	18.65
45	1 25/32	12 19/32	6 7/8	26.9
51	1 31/32	13 25/32	7 11/16	36.4
75	2 9/16	16 5/32	8 21/32	73
100	2 15/16	17 23/32	9 27/32	108

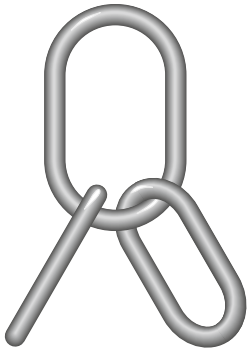
CAD | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin® DNV Master Link Assembly

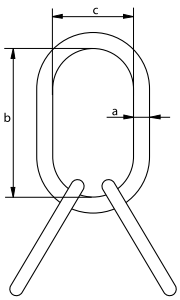
Grade 80 master link assembly

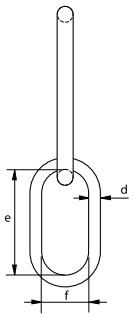
Scan for additional product details »



- **Material:** alloy steel, grade 80
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** DNV 2.7-1, EN 12079-2 and EN 1677-4
- **Finish:** painted silver
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [b] | MPI [b] | DNV 2.7-1 [a] | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** size WLL 75 t and 100 t have a temperature range of -4 °F up to +392 °F

P-6820





working load limit	diameter	length inside	width inside	diameter	length inside	width inside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
4.1	5/8	5 29/32	2 15/16	9/16	4 29/32	2 3/8	3.57
7	7/8	10 5/8	5 1/2	7/8	6 3/8	3 17/32	11.51
9.3	1 1/32	10 5/8	5 1/2	7/8	6 3/8	3 17/32	13.34
14.5	1 3/32	10 5/8	5 1/2	7/8	6 3/8	3 17/32	14.84
19	1 1/4	10 5/8	5 1/2	1 3/32	7 7/8	4 11/32	24
26	1 13/32	10 5/8	5 1/2	1 3/32	7 7/8	4 11/32	27.3
30.5	1 9/16	11 1/32	6 3/32	1 1/4	10 5/8	5 1/2	40.8
40	1 25/32	12 19/32	6 7/8	1 13/32	10 5/8	5 1/2	55
51	1 31/32	13 25/32	7 11/16	1 25/32	12 19/32	6 7/8	90
75	2 9/16	16 5/32	8 21/32	1 31/32	13 25/32	7 11/16	146
100	2 15/16	17 23/32	9 27/32	2 9/16	16 5/32	8 21/32	254

CAD | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

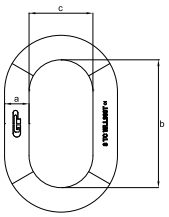
Green Pin® Heavy Duty Master Link

Grade 80 weldless heavy duty master link

Scan for additional product details

- **Material:** alloy steel, grade 80
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** painted silver and green
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] US [b] CE IIA
- **Article code:** scan QR code to see article codes

P-6815



working load limit	diameter	length inside	width inside	weight each
metric t	a inch	b inch	c inch	lbs
131	3 17/32	18 1/8	11 13/16	170
157	3 15/16	19 11/16	11 13/16	225
250	4 17/32	23 5/8	15 3/4	362
300	4 17/32	23 5/8	11 13/16	342
400	4 17/32	19 9/32	9 27/32	291

CAD

LIFTING SLING FITTINGS FOR WIRE ROPE
THIMBLES

Applications

Thimbles are used to protect steel wire rope, fibre rope or synthetic rope. They are available in various models and sizes. All indicated types of thimbles in this catalogue can be used in combination with the above mentioned types of ropes.

More information about the range, certification and finish, please go to the introduction of chapter 3 lifting slings.

Design

Royal Van Beest offers different type of thimble designs:

- Thimbles generally to DIN 6899, DIN 3090, EN 13411-1, US Federal Specification FF-T-276b type III;
- Thimbles according to DIN 3091;
- Standard commercial thimbles;
- Heavy duty stub-end thimbles;
- Penant line type;
- Tubular type.

These type of thimbles can be cold-rolled, hot-rolled or die cast depending on the specific type of thimble.

Instructions for use

Thimbles must be regularly inspected in accordance with the standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading which may lead to deformation and/or alteration of the steel structure.

Make sure that the (wire) rope fits properly into the groove of the thimble you use. The nominal size of the thimble represents the diameter of the (wire) rope for which it is intended to be used. If there is no thimble available with a nominal size that meets the size of your (wire) rope, the next larger size of thimble must be used.

Before use, check if the thimble is free from impurities, sharp edges, cracks or other irregularities which may damage the wire rope and therefore affect the performance of the wire rope.

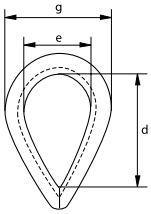
C

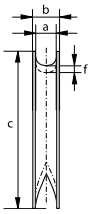
Thimbles

Standard commercial

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1 CE IIB

E-6110





diameter rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
5/32	5/32	9/32	31/32	5/8	7/16	3/32	3/4	1.1
3/16	3/16	5/16	1 7/32	7/8	5/8	1/8	31/32	1.76
1/4	1/4	13/32	1 15/32	1 1/32	3/4	1/8	1 3/16	3.09
5/16	5/16	15/32	2	1 11/32	15/16	3/16	1 1/2	6.17
11/32	11/32	1/2	2 1/4	1 1/2	1 5/32	7/32	1 23/32	6.61
13/32	13/32	5/8	2 17/32	1 21/32	1 1/4	7/32	1 15/16	10.58
15/32	15/32	23/32	3	2	1 1/2	1/4	2 1/4	17.64
9/16	9/16	25/32	3 7/32	2 1/4	1 9/16	5/16	2 7/16	22
5/8	5/8	7/8	3 1/2	2 3/8	1 21/32	11/32	2 19/32	33.1
23/32	23/32	1 1/32	4 1/32	2 5/8	1 25/32	13/32	2 7/8	48.5
25/32	25/32	1 3/32	4 17/32	3	2	7/16	3 3/16	55
7/8	7/8	1 3/16	5	3 9/32	2 1/8	1/2	3 7/16	71
15/16	15/16	1 1/4	5 7/16	3 17/32	2 17/32	9/16	3 15/16	101
1 1/32	1 1/32	1 13/32	5 31/32	4 1/32	2 11/16	9/16	4 7/32	146
1 3/32	1 3/32	1 1/2	6 1/2	4 11/32	2 7/8	5/8	4 17/32	170
1 3/16	1 3/16	1 21/32	7	4 23/32	3 1/8	21/32	4 29/32	176
1 1/4	1 1/4	1 23/32	8	5 5/8	3 21/32	23/32	5 9/16	287

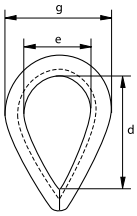
C

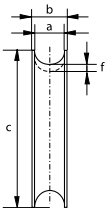
Thimbles

Heavy duty stub-end

- **Material:** mild steel
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 CE IIB

G-6120





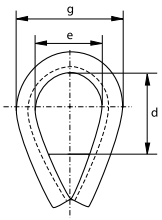
diameter rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
5/16	11/32	1/2	2	1 3/8	7/8	5/32	1 23/32	1.1
13/32	7/16	19/32	2 17/32	1 27/32	1 3/16	5/32	2 1/8	1.76
15/32	1/2	23/32	3	2 1/4	1 3/8	3/16	2 7/16	3.09
9/16	19/32	13/16	3 1/2	2 9/16	1 25/32	1/4	3	6.17
5/8	23/32	7/8	4 1/32	2 15/16	1 31/32	1/4	3 9/32	6.61
23/32	25/32	1 3/32	4 1/2	3 11/32	2 3/32	9/32	3 19/32	10.58
25/32	7/8	1 3/16	5	3 11/16	2 3/8	5/16	4 1/32	17.64
7/8	15/16	1 7/32	5 1/2	4 7/32	2 9/16	11/32	4 11/32	22
15/16	1 1/32	1 11/32	5 31/32	4 1/2	2 3/4	3/8	4 21/32	33.1
1 3/32	1 3/16	1 17/32	7	5 1/8	3 5/32	13/32	5 9/32	48.5
1 1/4	1 11/32	1 5/8	8	6 3/16	3 15/16	13/32	6 3/8	55
1 13/32	1 1/2	1 7/8	9 1/32	6 7/8	4 17/32	7/16	7 5/32	71
1 9/16	1 21/32	2	10	7 25/32	4 23/32	15/32	7 13/32	101
1 23/32	1 13/16	2 7/16	11 1/32	8 7/16	5 1/8	9/16	8 9/32	146
1 31/32	2 3/32	2 9/16	12	8 21/32	5 1/2	23/32	9 3/4	170
2 7/32	2 1/4	2 11/16	14 1/32	9 21/32	5 29/32	29/32	10 5/16	176
2 17/32	2 5/8	3 11/32	16 1/32	11 1/4	7 9/32	25/32	11 1/32	287

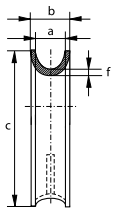
C

Thimbles

Heavy duty stub-end reinforced with welded fillet plate

G-6128





- **Material:** mild steel
- **Finish:** hot dipped galvanized reinforced with a welded fillet plate
- **Certification:** 2.1 CE IIB

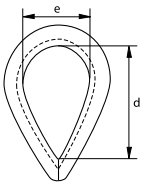
width groove	width overall	length	length inside	width inside	thickness back	width	weight per piece
a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
1 3/8	2 5/32	8 21/32	3 15/16	3 5/32	13/32	5 29/32	7.05
1 9/16	2 9/16	9 21/32	4 23/32	3 17/32	15/32	6 5/16	11.24
1 31/32	3 5/32	11 13/32	4 29/32	4 11/32	5/8	7 7/8	20.3
2 7/16	3 15/16	14 3/16	6 5/16	5 1/2	25/32	9 27/32	38.4
2 27/32	4 17/32	15 11/32	6 7/8	6 5/16	25/32	10 7/16	42.8
3 11/32	4 29/32	18 1/2	9 21/32	7 15/32	25/32	11 13/16	64
3 15/16	5 29/32	21 1/4	11 13/32	7 7/8	31/32	14 9/16	86
4 17/32	6 1/2	22 7/16	11 13/16	8 9/32	31/32	14 31/32	115

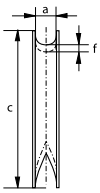
For shackle

group		width groove a inch							
		1 3/8	1 9/16	1 31/32	2 7/16	2 27/32	3 11/32	3 15/16	4 17/32
G-4161	Working Load Limit WLL t	17, 25	25	35, 42.5	55	85			
G-4163		17, 25	25	35, 42.5	55	85			
G-4151		17, 25	25	35, 42.5	55	85			
G-4153		17, 25	25	35, 42.5	55	85			
P-6036							120, 150	150, 200	
G-6038							120, 150	150, 200	
P-6033		30	30	40, 55	75	125	125		
G-5263		30, 40	40		85	120	150, 175	175	
G-5163		17, 25	25	35, 42.5	55	85			
P-6031							120, 150	150, 200	
G-4263		4.75 ~ 25	6.5 ~ 25	9.5 ~ 30	16 ~ 55	25 ~ 75	30 ~ 75	55, 75	75
P-5363		17, 25	25	35, 42.5	55	85			
P-5365		17, 25	25	35, 42.5	55	85	120, 150	150, 200	
P-5367		17, 25	25	35, 42.5	55	85	120, 150	150	
G-4164		17, 25	25						
G-4154		17, 25	25						
G-4169		17							
G-4159		17							

C

E-6131
G-6131





Thimbles

Generally to DIN 6899 (B)

- **Material:** mild steel
- **Standard:** generally to DIN 6899 (B)
- **Finish:** thimbles for rope diameters up to and including 1/4 inch are electro-galvanized, other diameters are hot dipped galvanized
- **Certification:** 2.1 CE IIB

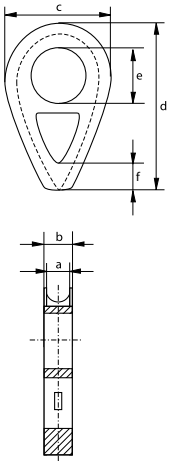
diameter rope	width groove	length	length inside	width inside	thickness back	weight per 100 pcs
inch	a inch	c inch	d inch	e inch	f inch	lbs
3/32	1/8	7/8	3/4	15/32	1/16	1.32
1/8	5/32	1 1/32	13/16	1/2	1/16	1.76
5/32	3/16	1 1/4	29/32	9/16	1/16	2.2
3/16	1/4	1 1/2	31/32	5/8	3/32	4.41
1/4	9/32	1 23/32	1 3/32	23/32	3/32	4.41
9/32	5/16	2	1 1/4	25/32	1/8	5.95
11/32	13/32	2 1/4	1 1/2	15/16	1/8	9.04
7/16	15/32	2 17/32	1 25/32	1 3/32	1/8	15.21
1/2	1/2	2 3/4	1 7/8	1 3/16	1/8	15.87
1/2	9/16	3	2	1 1/4	5/32	22.5
19/32	5/8	3 9/32	2 9/32	1 13/32	5/32	36.2
5/8	21/32	3 1/2	2 13/32	1 1/2	3/16	41.9
21/32	23/32	3 3/4	2 17/32	1 9/16	3/16	44.8
23/32	25/32	4 1/32	2 27/32	1 25/32	7/32	60
25/32	7/8	4 1/2	3 5/32	1 31/32	7/32	68
7/8	15/16	5	3 17/32	2 7/32	1/4	99
15/16	1 1/32	5 1/2	3 29/32	2 7/16	9/32	131
1 1/32	1 3/32	5 31/32	4 13/32	2 3/4	5/16	159
1 3/32	1 3/16	6 1/2	4 23/32	2 15/16	5/16	229
1 3/16	1 1/4	7	5 1/32	3 5/32	5/16	254
1 1/4	1 11/32	8	5 31/32	3 3/4	11/32	337
1 11/32	1 13/32	8 1/2	6 5/16	3 15/16	11/32	388
1 13/32	1 1/2	9 1/32	6 15/16	4 11/32	11/32	388
1 1/2	1 9/16	9 1/2	7 1/4	4 17/32	13/32	644
1 9/16	1 21/32	10	7 9/16	4 23/32	13/32	705
1 21/32	1 25/32	12	9 7/16	5 29/32	13/32	802

C

Thimbles

According to DIN 3091

S-6134

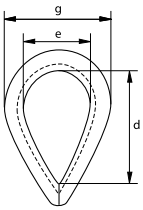


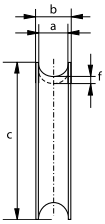
- **Material:** cast mild steel, (GTW 40)
- **Standard:** according to DIN 3091
- **Finish:** self-coloured
- **Certification:** 2.1 CE IIB
- **Note:** the diameter (e) of the timble for diameter wire rope 2 $^{27}/_{32}$ inch is 5 $^{1}/_{2}$ inch

diameter rope	width groove	width overall	width	length	diameter	length	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs
$^{5}/_{16}$	$^{11}/_{32}$	$^{19}/_{32}$	1 $^{9}/_{16}$	2 $^{7}/_{32}$	$^{9}/_{16}$	-	39.7
$^{13}/_{32}$	$^{7}/_{16}$	$^{11}/_{16}$	1 $^{31}/_{32}$	2 $^{3}/_{4}$	$^{23}/_{32}$	-	71
$^{15}/_{32}$	$^{1}/_{2}$	$^{25}/_{32}$	2 $^{3}/_{8}$	3 $^{5}/_{16}$	$^{13}/_{16}$	-	115
$^{9}/_{16}$	$^{5}/_{8}$	$^{15}/_{16}$	2 $^{3}/_{4}$	3 $^{27}/_{32}$	$^{31}/_{32}$	-	176
$^{5}/_{8}$	$^{23}/_{32}$	1 $^{1}/_{32}$	3 $^{5}/_{32}$	5 $^{1}/_{8}$	1 $^{3}/_{32}$	$^{5}/_{8}$	198
$^{23}/_{32}$	$^{25}/_{32}$	1 $^{1}/_{8}$	3 $^{17}/_{32}$	5 $^{23}/_{32}$	1 $^{7}/_{32}$	$^{23}/_{32}$	267
$^{25}/_{32}$	$^{7}/_{8}$	1 $^{7}/_{32}$	3 $^{15}/_{16}$	6 $^{11}/_{32}$	1 $^{3}/_{8}$	$^{25}/_{32}$	355
$^{7}/_{8}$	$^{15}/_{16}$	1 $^{5}/_{16}$	4 $^{11}/_{32}$	6 $^{31}/_{32}$	1 $^{1}/_{2}$	$^{7}/_{8}$	465
$^{15}/_{16}$	1 $^{1}/_{32}$	1 $^{13}/_{32}$	4 $^{23}/_{32}$	7 $^{19}/_{32}$	1 $^{5}/_{8}$	$^{15}/_{16}$	597
1 $^{1}/_{32}$	1 $^{5}/_{32}$	1 $^{9}/_{16}$	5 $^{1}/_{8}$	8 $^{7}/_{32}$	1 $^{23}/_{32}$	1 $^{1}/_{32}$	783
1 $^{3}/_{32}$	1 $^{7}/_{32}$	1 $^{21}/_{32}$	5 $^{1}/_{2}$	8 $^{13}/_{16}$	1 $^{27}/_{32}$	1 $^{3}/_{32}$	926
1 $^{1}/_{4}$	1 $^{3}/_{8}$	1 $^{27}/_{32}$	6 $^{5}/_{16}$	10 $^{3}/_{32}$	2 $^{3}/_{32}$	1 $^{1}/_{4}$	1389
1 $^{13}/_{32}$	1 $^{9}/_{16}$	2 $^{3}/_{32}$	7 $^{3}/_{32}$	11 $^{11}/_{32}$	2 $^{5}/_{16}$	1 $^{13}/_{32}$	1949
1 $^{9}/_{16}$	1 $^{23}/_{32}$	2 $^{9}/_{32}$	7 $^{7}/_{8}$	12 $^{19}/_{32}$	2 $^{9}/_{16}$	1 $^{9}/_{16}$	2425
1 $^{23}/_{32}$	1 $^{7}/_{8}$	2 $^{15}/_{32}$	8 $^{21}/_{32}$	13 $^{27}/_{32}$	2 $^{3}/_{4}$	1 $^{23}/_{32}$	3307
1 $^{7}/_{8}$	2 $^{3}/_{32}$	2 $^{23}/_{32}$	9 $^{7}/_{16}$	15 $^{1}/_{8}$	3	1 $^{7}/_{8}$	4409
2 $^{1}/_{16}$	2 $^{1}/_{4}$	2 $^{29}/_{32}$	10 $^{1}/_{4}$	16 $^{3}/_{8}$	3 $^{3}/_{16}$	2 $^{1}/_{16}$	5512
2 $^{7}/_{32}$	2 $^{7}/_{16}$	3 $^{5}/_{32}$	11 $^{1}/_{32}$	17 $^{5}/_{8}$	3 $^{3}/_{8}$	2 $^{7}/_{32}$	7055
2 $^{17}/_{32}$	2 $^{3}/_{4}$	3 $^{17}/_{32}$	12 $^{19}/_{32}$	20 $^{5}/_{32}$	3 $^{3}/_{4}$	2 $^{17}/_{32}$	10141
2 $^{27}/_{32}$	3 $^{1}/_{8}$	3 $^{31}/_{32}$	14 $^{3}/_{16}$	22 $^{11}/_{16}$	5 $^{1}/_{2}$	2 $^{27}/_{32}$	14551

C

E-6135
G-6135





Thimbles

Generally to DIN 3090

- **Material:** mild steel
- **Standard:** generally to DIN 3090
- **Finish:** for diameter $^{5}/_{32}$ inch and $^{1}/_{4}$ inch electro-galvanized
  other diameters hot dipped galvanized
- **Certification:** 2.1 CE IIB

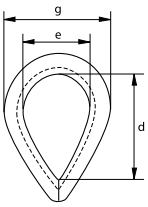
diameter wire rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
$^{5}/_{32}$	$^{3}/_{16}$	$^{5}/_{16}$	1 $^{3}/_{8}$	$^{25}/_{32}$	$^{13}/_{32}$	$^{3}/_{32}$	$^{31}/_{32}$	3.09
$^{1}/_{4}$	$^{9}/_{32}$	$^{13}/_{32}$	1 $^{31}/_{32}$	1 $^{3}/_{16}$	$^{19}/_{32}$	$^{3}/_{32}$	1 $^{5}/_{16}$	6.61
$^{5}/_{16}$	$^{11}/_{32}$	$^{1}/_{2}$	2 $^{11}/_{16}$	1 $^{9}/_{16}$	$^{25}/_{32}$	$^{5}/_{32}$	1 $^{11}/_{16}$	15.65
$^{13}/_{32}$	$^{7}/_{16}$	$^{19}/_{32}$	3 $^{1}/_{32}$	1 $^{31}/_{32}$	$^{31}/_{32}$	$^{3}/_{16}$	1 $^{27}/_{32}$	37.5
$^{15}/_{32}$	$^{1}/_{2}$	$^{3}/_{4}$	3 $^{15}/_{16}$	2 $^{3}/_{8}$	1 $^{3}/_{16}$	$^{1}/_{4}$	2 $^{15}/_{32}$	53
$^{9}/_{16}$	$^{5}/_{8}$	$^{7}/_{8}$	4 $^{11}/_{32}$	2 $^{3}/_{4}$	1 $^{3}/_{8}$	$^{5}/_{16}$	2 $^{3}/_{4}$	68
$^{5}/_{8}$	$^{23}/_{32}$	$^{31}/_{32}$	4 $^{29}/_{32}$	3 $^{5}/_{32}$	1 $^{9}/_{16}$	$^{5}/_{16}$	3 $^{5}/_{32}$	110
$^{23}/_{32}$	$^{25}/_{32}$	1 $^{1}/_{16}$	5 $^{19}/_{32}$	3 $^{17}/_{32}$	1 $^{25}/_{32}$	$^{11}/_{32}$	3 $^{17}/_{32}$	137
$^{25}/_{32}$	$^{7}/_{8}$	1 $^{3}/_{16}$	6 $^{3}/_{32}$	3 $^{15}/_{16}$	1 $^{31}/_{32}$	$^{13}/_{32}$	4 $^{1}/_{32}$	198
$^{7}/_{8}$	$^{15}/_{16}$	1 $^{5}/_{16}$	6 $^{1}/_{2}$	4 $^{11}/_{32}$	2 $^{5}/_{32}$	$^{13}/_{32}$	4 $^{7}/_{32}$	220
$^{15}/_{16}$	1 $^{1}/_{32}$	1 $^{3}/_{8}$	7 $^{3}/_{32}$	4 $^{23}/_{32}$	2 $^{3}/_{8}$	$^{13}/_{32}$	4 $^{23}/_{32}$	287
1 $^{1}/_{32}$	1 $^{5}/_{32}$	1 $^{13}/_{32}$	7 $^{15}/_{32}$	5 $^{1}/_{8}$	2 $^{9}/_{16}$	$^{15}/_{32}$	4 $^{13}/_{16}$	485
1 $^{3}/_{32}$	1 $^{7}/_{32}$	1 $^{15}/_{32}$	7 $^{3}/_{4}$	5 $^{1}/_{2}$	2 $^{3}/_{4}$	$^{15}/_{32}$	5 $^{1}/_{32}$	529
1 $^{1}/_{4}$	1 $^{3}/_{8}$	1 $^{11}/_{16}$	8 $^{27}/_{32}$	6 $^{5}/_{16}$	3 $^{5}/_{32}$	$^{19}/_{32}$	5 $^{23}/_{32}$	476
1 $^{13}/_{32}$	1 $^{9}/_{16}$	2 $^{3}/_{8}$	9 $^{27}/_{32}$	7 $^{3}/_{32}$	3 $^{17}/_{32}$	$^{19}/_{32}$	6 $^{11}/_{16}$	948
1 $^{9}/_{16}$	1 $^{23}/_{32}$	2 $^{19}/_{32}$	11 $^{13}/_{32}$	7 $^{7}/_{8}$	3 $^{15}/_{16}$	$^{25}/_{32}$	7 $^{15}/_{32}$	1257
1 $^{23}/_{32}$	1 $^{7}/_{8}$	2 $^{27}/_{32}$	12 $^{13}/_{32}$	8 $^{21}/_{32}$	4 $^{11}/_{32}$	$^{25}/_{32}$	8 $^{1}/_{16}$	1874
1 $^{7}/_{8}$	2 $^{3}/_{32}$	3 $^{1}/_{32}$	13 $^{25}/_{32}$	9 $^{7}/_{16}$	4 $^{23}/_{32}$	$^{25}/_{32}$	8 $^{21}/_{32}$	2469
2 $^{1}/_{16}$	2 $^{1}/_{4}$	3 $^{15}/_{32}$	14 $^{31}/_{32}$	10 $^{1}/_{4}$	5 $^{1}/_{8}$	$^{31}/_{32}$	9 $^{1}/_{4}$	3373
2 $^{7}/_{32}$	2 $^{7}/_{16}$	3 $^{3}/_{4}$	15 $^{15}/_{16}$	11 $^{1}/_{32}$	5 $^{1}/_{2}$	$^{31}/_{32}$	10 $^{5}/_{8}$	4736
2 $^{3}/_{8}$	2 $^{19}/_{32}$	4 $^{1}/_{8}$	16 $^{15}/_{16}$	11 $^{13}/_{16}$	5 $^{29}/_{32}$	$^{31}/_{32}$	11 $^{7}/_{32}$	5071
2 $^{17}/_{32}$	2 $^{3}/_{4}$	4 $^{11}/_{32}$	19 $^{3}/_{32}$	12 $^{19}/_{32}$	6 $^{5}/_{16}$	1 $^{3}/_{16}$	12 $^{7}/_{32}$	7716

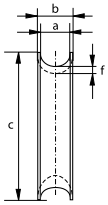
C

Thimbles

Generally to EN 13411-1

G-6170





- **Material:** mild steel
- **Standard:** generally to EN 13411-1 formerly BS 464
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 CE IIB

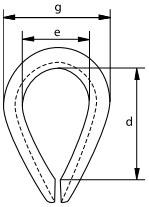
diameter rope		width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	mm	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
3/16	5	1/4	3/8	1 27/32	1 1/16	23/32	1/8	1 1/4	7.72
1/4	7	9/32	7/16	2	1 5/16	13/16	1/8	1 13/32	6.17
5/16	8	5/16	1/2	2 1/16	1 5/16	7/8	5/32	1 1/2	12.57
3/8	10	13/32	9/16	2 17/32	1 1/2	31/32	1/4	1 7/8	17.64
7/16	11	1/2	11/16	2 7/8	1 5/8	1 5/32	5/16	2 1/16	31.3
1/2	13	9/16	13/16	3 1/8	1 25/32	1 1/4	5/16	2 5/16	39.7
9/16	14	19/32	13/16	3 15/32	2 7/32	1 1/2	5/16	2 17/32	41.7
5/8	16	5/8	7/8	3 25/32	2 5/16	1 5/8	11/32	2 15/16	49.4
11/16	17	3/4	1 1/8	4 1/4	2 5/8	1 25/32	3/8	3 1/8	88
3/4	19	13/16	1 1/8	4 7/8	2 7/8	2	7/16	3 5/8	101
7/8	22	7/8	1 1/4	5 5/32	3 9/32	2 7/32	1/2	4 1/32	136
15/16	24	31/32	1 5/16	5 3/4	3 5/8	2 17/32	1/2	4 11/32	234
1	25	1 1/16	1 3/8	6 3/8	4 1/4	2 3/4	9/16	4 11/16	215
1 1/8	29	1 5/32	1 1/2	7	4 13/32	3	5/8	5 1/4	333
1 1/4	32	1 5/16	1 5/8	7 3/4	5 1/4	3 3/4	5/8	5 31/32	450
1 3/8	35	1 1/2	1 7/8	8 31/32	5 31/32	4 1/8	3/4	6 7/8	701
1 1/2	38	1 5/8	2 1/16	10	6 1/2	4 1/2	15/16	7 3/4	800
1 5/8	41	1 27/32	2 1/4	11 1/32	7 13/32	4 23/32	15/16	8 1/16	1100
1 3/4	44	2	2 1/4	11 1/4	7	5	1	8 31/32	1226
1 7/8	48	2 3/8	2 5/8	12 15/32	7 15/32	5 1/4	1 1/8	9 3/4	-
2	51	2 17/32	2 3/4	13	8	5 1/2	1 3/16	10 1/8	-
2 1/8	54	2 17/32	2 3/4	13	8	5 1/2	1 3/16	10 1/8	-
2 1/4	57	2 5/8	3	14 1/32	9 11/16	6 5/16	1 1/4	11 21/32	-
2 1/2	64	2 15/16	3 21/32	16 17/32	10 1/32	6 11/16	1 11/16	11 13/16	-

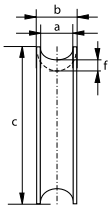
C

Thimbles

Generally to US Fed. Spec. FF-T-276b type III

G-6142





- **Material:** mild steel
- **Standard:** generally to US Federal Specification FF-T-276b type III and generally to EN 13411-1
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 CE IIB

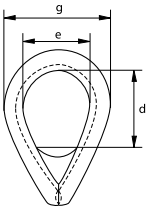
diameter rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
1/4	9/32	13/32	2 7/32	1 5/8	7/8	1/16	1 1/2	5.95
5/16	5/16	1/2	2 17/32	1 7/8	1 1/16	3/32	1 13/16	11.24
11/32	13/32	11/16	2 7/8	2 1/8	1 1/32	3/32	2 1/8	20.1
7/16	15/32	23/32	3 9/32	2 3/8	1 1/4	1/8	2 3/8	30.6
1/2	17/32	27/32	3 5/8	2 3/4	1 1/2	5/32	2 3/4	43.9
9/16	19/32	29/32	3 5/8	2 3/4	1 1/2	5/32	2 11/16	45.2
5/8	21/32	31/32	4 1/16	3 9/32	1 23/32	5/32	3 1/16	66
3/4	25/32	1 1/4	5	3 3/4	2	1/4	3 13/16	134
7/8	15/16	1 13/32	5 1/2	4 1/4	2 1/4	1/4	4 1/4	177
31/32	1 1/16	1 17/32	6 5/32	4 1/2	2 15/32	1/4	4 29/32	240
1 3/32 - 1 1/4	1 11/32	1 13/16	7	5 1/8	2 7/8	1/4	5 13/16	324
1 1/4 - 1 3/8	1 13/32	2 7/32	8 31/32	6 1/2	3 1/2	13/32	6 13/16	807
1 3/8 - 1 1/2	1 17/32	2 15/32	8 31/32	6 7/32	3 1/2	15/32	7 1/8	1054
1 5/8	1 21/32	2 19/32	11 7/32	8	3 31/32	15/32	8 1/8	1612
1 25/32	1 25/32	2 23/32	12 5/32	8 31/32	4 1/2	15/32	8 1/2	1715
1 7/8 - 2	2 1/8	3 1/16	14 31/32	12	5 31/32	15/32	9 27/32	2535
2 1/4	2 3/8	3 5/8	17 1/8	14 1/32	7	5/8	11 27/32	4266
2 17/32	2 3/4	4 11/32	18 5/16	14 3/16	7	25/32	12 7/32	5820
3	3 11/32	4 29/32	21 21/32	16 5/32	7 3/32	25/32	13	8488

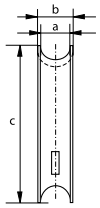
C

Thimbles

Pennant line type

G-6151





- **Material:** mild steel
- **Finish:** hot dipped galvanized produced with a welded fillet plate
- **Certification:** 2.1 CE IIB

diameter wire rope	width groove	width overall	length	length inside	width inside	width	weight each
inch	a inch	b inch	c inch	d inch	e inch	g inch	lbs
5/8	21/32	7/8	4 1/32	1 31/32	1 31/32	2 15/16	0.88
23/32	3/4	31/32	4 1/2	1 31/32	2 3/32	3 11/32	1.1
25/32	13/16	1 5/32	5	2 3/8	2 3/8	3 15/16	1.76
7/8	29/32	1 5/16	5 1/2	2 3/8	2 9/16	4 11/32	1.98
15/16	31/32	1 11/32	5 31/32	2 3/4	2 3/4	4 17/32	2.2
1 3/32	1 3/16	1 1/2	7	2 15/16	3 5/32	5 5/16	3.75
1 3/16	1 5/16	1 23/32	8	3 5/32	3 15/16	6 3/32	5.51
1 13/32	1 1/2	1 15/16	9 1/32	4 11/32	4 17/32	6 7/8	8.82
1 9/16	1 5/8	2 1/16	10	4 23/32	4 23/32	7 15/32	9.92
1 23/32	1 13/16	2 3/8	10 31/32	4 23/32	5 1/8	8 9/32	15.43
1 31/32	2 1/16	2 9/16	12	5 1/2	5 23/32	9 21/32	18.3
2 7/32	2 3/8	2 27/32	14 1/32	6 3/32	6 3/32	10 1/4	27.6
2 17/32	2 3/4	3 5/16	17	7 7/8	7 15/32	12 7/32	43
3	3 3/16	4 11/16	19 1/32	9 1/4	9 1/16	13 25/32	64
3 7/32	3 5/8	5 1/8	22	9 7/16	10 1/32	15 9/16	77
3 17/32	4 1/8	5 23/32	24 1/32	10 13/16	11 1/32	16 15/16	93
4 23/32	4 23/32	6 3/32	25 31/32	11 5/8	11 7/32	17 23/32	128

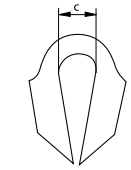
C

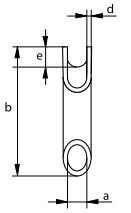
Thimbles

Tubular type

- **Material:** mild steel
- **Finish:** painted
- **Certification:** 2.1 CE IIB

P-6190





diameter wire rope	diameter	length	width inside	thickness	height	weight each
inch	a inch	b inch	c inch	d inch	e inch	lbs
13/32	15/32	3 17/32	29/32	5/32	5/16	0.51
15/32	19/32	4 1/8	1 1/16	3/16	13/32	0.88
9/16	21/32	4 17/32	1 1/16	3/16	13/32	1.1
5/8	3/4	4 23/32	1 1/4	3/16	15/32	1.32
23/32	7/8	5 1/2	1 3/8	3/16	19/32	1.65
7/8	31/32	7 3/32	1 25/32	1/4	5/8	3.09
15/16	1 3/32	7 3/32	1 25/32	9/32	5/8	3.86
1 1/32	1 3/16	7 11/16	1 27/32	9/32	23/32	4.41
1 1/4	1 3/8	8 15/32	2 3/8	9/32	7/8	5.51
1 1/2	1 25/32	10 1/4	2 3/4	9/32	1 1/16	7.72
1 23/32	1 31/32	11 1/32	2 15/16	9/32	1 3/32	9.26

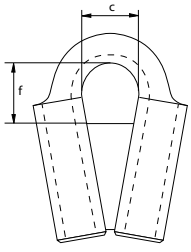
C

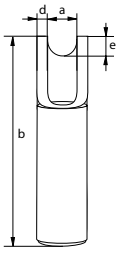
Thimbles

Tubular type with welded plate

- **Material:** mild steel
- **Finish:** painted
- **Certification:** 2.1 CE IIB

P-6195





diameter wire rope	width groove	length	width inside	thickness	height	length inside	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs
13/32	15/32	3 5/16	29/32	5/32	5/16	15/16	0.57
15/32	19/32	3 3/4	1 1/16	3/16	13/32	1 7/32	0.93
9/16	21/32	3 15/16	1 1/16	3/16	13/32	1 1/2	1.06
5/8	3/4	4 13/32	1 1/4	3/16	15/32	1 13/16	1.34
23/32	7/8	4 29/32	1 3/8	3/16	19/32	1 27/32	2.09
7/8	31/32	5 29/32	1 25/32	1/4	5/8	2 13/32	2.93
15/16	1 3/32	6 3/16	1 25/32	9/32	5/8	2 7/32	3.68
1 1/32	1 3/16	6 11/16	1 27/32	9/32	23/32	2 11/16	4.32
1 1/4	1 3/8	7 15/32	2 3/8	9/32	7/8	2 7/8	5.36
1 13/32	1 9/16	8 11/32	2 3/4	11/32	1 1/32	3 5/32	9.52
1 1/2	1 25/32	8 31/32	2 3/4	9/32	1 1/16	3 11/16	8.09

LIFTING SLING FITTINGS FOR WIRE ROPE

WIRE ROPE CLIPS

Applications

Wire rope clips are used on wire rope eye-loop connections and on complete loops. They are used in end-to-end connections where socketing or splicing is not feasible and when a temporary joint is required.

More information about the range, certification and finish, please go to the introduction of chapter 3 lifting slings.

Design

Green Pin® wire rope clips are drop forged and have a bridge with grooves to tighten the wire rope properly in the clip; the DIN wire rope clips have a malleable base, without grooves.

Wire rope clips are generally marked with:

- manufacturer's symbol - e.g. GP
- wire rope diameter in mm or inches - e.g. 13 or $^1/_2$"
- traceability code - e.g. A1

Instructions for use

Wire rope clips should be inspected before use to ensure that:

- all markings are legible;
- a wire rope clip with the correct dimensions has been selected;
- the nuts or any other locking system cannot vibrate out of position;
- the wire rope clip is free from nicks, gouges and cracks;

Never modify, repair or reshape a wire rope clip by machining, welding, heating or bending as this may affect their performance.

The wire rope clip should be fitted to the wire rope as shown in below figures. The bridge of the wire rope clip should always be placed on the load bearing part of the rope. The U-bolt of the clip should be placed on the rope tail, also known as the dead end of the rope. Turn back enough wire rope length so that the required minimum number of clips can be installed according to the instructions below.

The first clip must be placed one bridge width from the turned-back rope tail or dead end of the rope, according to figure 1. Tighten the nuts to the specified torque.

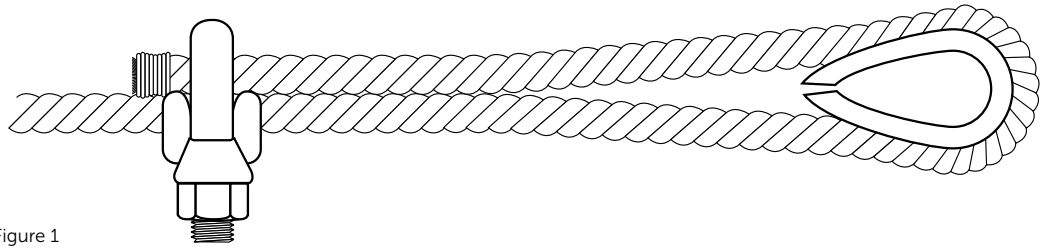


Figure 1

The second clip must be placed immediately against the thimble. Take care that the correct tightening of the clip does not damage the outer wires of the wire rope (figure 2). Tighten the nuts firmly but not yet to the specified torque.

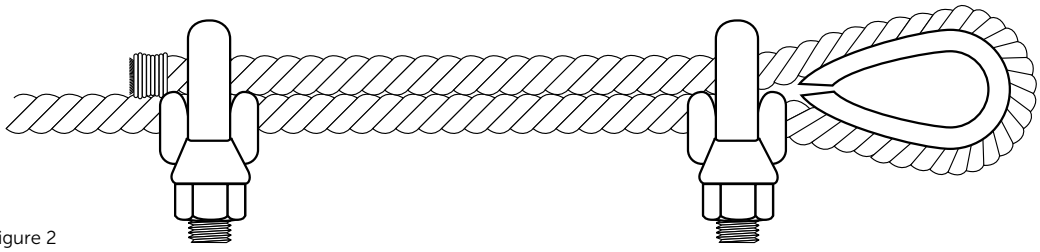


Figure 2

The following clips should be placed on the wire rope between the first and second clip in such a way that they are separated by at least 1½ times the clip-width with a maximum of 3 times the clip-width, according to figure 3.

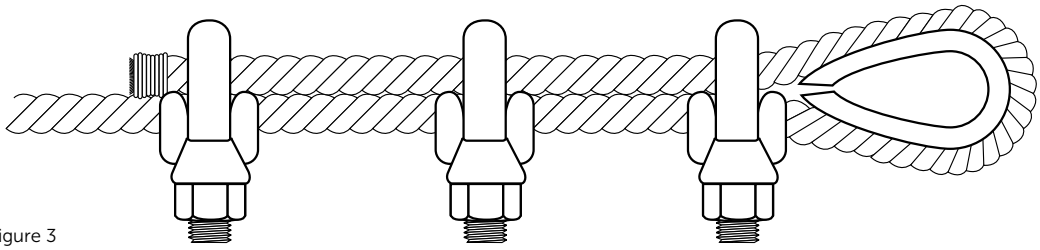


Figure 3

Apply light tension on the rope and tighten all nuts evenly, alternating until reaching the specified torque. After assembly and before the rope is taken into service, the nuts must be tightened further to the prescribed torque. After the load has been applied to the assembly for the first time, the torque value must be checked and corrected if necessary. Re-tightening of the nuts must be done at 10.000 cycles (heavy usage), 20.000 cycles (moderate usage) or 50.000 cycles (light usage). If cycles are unknown, a competent person could fix a time period, e.g. every 3 months, 6 months, annually.

The torque values and the minimum number of clips to be applied for a particular rope size are given in the following tables.

diameter wire rope	diameter wire rope	min. no of clips required	length of rope to turn back	torque value	torque value
inch	inch		inch	Ft.Lbs	Ft.Lbs
1/8	3 - 4	2	85	6.1	4.5
3/16	5	2	95	10.2	7.5
1/4	6 - 7	2	120	20.3	15
5/16	8	3	133	40.7	30
3/8	9 - 10	3	165	61	45
7/16	11	3	178	88	65
1/2	12 - 13	3	292	88	65
9/16	14 - 15	3	305	129	95
5/8	16	3	305	129	95
3/4	18 - 20	4	460	176	130
7/8	22	4	480	305	225
1	24 - 26	5	660	305	225
1 1/8	28 - 30	6	860	305	225
1 1/4	32 - 34	7	1120	488	360
1 3/8	36	7	1120	488	360
1 1/2	38 - 40	8	1370	488	360
1 5/8	41 - 42	8	1470	583	430
1 3/4	44 - 46	8	1550	800	590
2	48 - 52	8	1800	1017	750
2 1/4	56 - 58	8	1850	1017	750
2 1/2	62 - 65	9	2130	1017	750
2 3/4	68 - 72	10	2540	1017	750
3	75 - 78	10	2690	1627	1200

Table 1, Green Pin® wire rope clips generally to EN 13411-5 Type B, required number and torque value

diameter wire rope	min. no of clips required	torque value	torque value
inch		Nm	Ft.Lbs
5	3	2	1.5
6.5	3	3.5	2.6
8	4	6	4.4
10	4	9	6.6
12	4	20	14.8
13	4	33	24.3
14	4	33	24.3
16	4	49	36
19	5	68	50
22	5	107	79
26	5	147	108
30	6	212	156
34	6	296	218
40	6	363	268

Table 2, Wire rope clips generally to EN 13411-5 Type A, required number and torque value

The efficiency of a wire rope termination made with wire rope clips depends on the correct placement of the clips on the rope and on correct fitting and tightening of the clips. With inadequately tightened nuts or with an insufficient number of wire rope clips the rope end may slide through the clips during use.

The fitting of the clips on the ropes may be affected by various circumstances, such as:
- the nut may be tight on the thread, yet not tight against the bridge;
- contamination of the thread by dirt, oil or corrosion products, which may prevent correct tightening of the nut.

Forged wire rope clips provide greater bearing surface and more consistent strength than malleable cast iron clips.

Suitable applications of wire rope clips to EN 13411-5 standards include suspending static loads and single use lifting operations which have been assessed by a competent person taking into account appropriate safety factors.

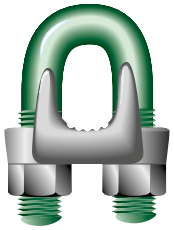
Wire rope clips should not be used in following applications:
- hoist ropes in mines;
- rope drives for cranes in steel works and rolling mills;
- permanent fastening of ropes in other rope drives;
- rope terminations for load suspension devices in the operation of lifting appliances, except in the case of lifting tackles where these are produced for a special application and used only once.

Wire rope clips must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the products are used in severe operating conditions.

Green Pin® Wire Rope Clip

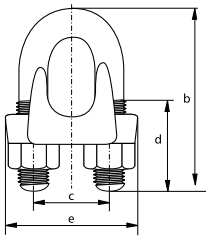
Wire rope clip generally to EN 13411-5 Type B

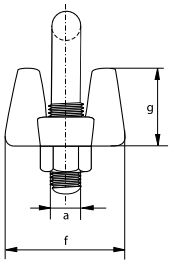
Scan for additional product details »



- **Material:** bridge: drop forged high tensile steel SAE 1045
  U-bolt: SAE 1015
- **Standard:** EN 13411-5 Type B
  formerly U.S. Federal Specification FF-C-450D
- **Finish:** hot dipped galvanized
  U-bolt and/or nuts for diameter bow 3/16 inch, 1/4 inch, 5/16 inch and 13/32 inch are electro-galvanized
- **Certification:** 2.1 2.2 CE IIB
- **Article code:** scan QR code to see article codes

G-6240





diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
1/8	3/16	15/16	15/32	7/16	15/16	13/16	13/32	6.61
3/16	1/4	1 7/32	19/32	1/2	1 5/32	15/16	1/2	15.43
1/4	5/16	1 11/32	3/4	1/2	1 15/32	1 3/16	23/32	18.52
5/16	13/32	1 25/32	7/8	3/4	1 11/16	1 5/16	3/4	27.3
3/8	7/16	1 15/16	1 1/32	3/4	1 15/16	1 21/32	31/32	46.3
7/16	15/32	2 3/8	1 3/16	31/32	2 9/32	1 13/16	1 1/32	73
1/2	1/2	2 13/32	1 3/16	31/32	2 9/32	1 7/8	1 7/32	73
9/16	9/16	2 27/32	1 5/16	1 1/4	2 15/32	2 1/16	1 7/32	101
5/8	9/16	2 29/32	1 5/16	1 1/4	2 17/32	2 1/8	1 13/32	101
3/4	5/8	3 3/8	1 1/2	1 15/32	2 27/32	2 1/4	1 1/2	142
7/8	3/4	3 27/32	1 25/32	1 5/8	3 5/32	2 7/16	1 9/16	213
1	3/4	4 1/4	1 7/8	1 13/16	3 15/32	2 5/8	1 27/32	254
1 1/8	3/4	4 19/32	2	2	3 19/32	2 7/8	1 7/8	280
1 1/4	7/8	5 1/8	2 5/16	2 1/8	4 1/8	3 1/8	2 7/32	434
1 3/8	7/8	5 1/2	2 3/8	2 5/16	4 1/4	3 1/8	2 9/32	454
1 1/2	7/8	5 25/32	2 19/32	2 3/8	4 13/32	3 11/32	2 17/32	560
1 5/8	31/32	6 11/32	2 3/4	2 5/8	4 3/4	3 5/8	2 5/8	710
1 3/4	1 5/32	6 27/32	3 1/16	2 3/4	5 9/32	3 13/16	3	922
2	1 1/4	7 11/16	3 3/8	3 1/16	5 29/32	4 7/16	3 11/32	1327
2 1/4	1 1/4	8 3/8	3 27/32	3 3/16	6 3/8	4 9/16	3 15/16	1711
2 1/2	1 1/4	8 15/16	4 1/8	3 7/16	6 5/8	4 11/16	4 7/16	1900
2 3/4	1 1/4	9 9/16	4 13/32	3 19/32	6 27/32	5	4 7/8	2238
3	1 1/2	10 21/32	4 3/4	3 27/32	7 5/8	5 5/16	5 11/32	2804

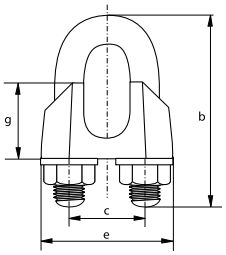
C

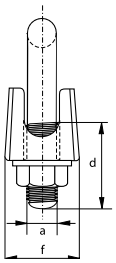
Wire Rope Clip

Generally to EN 13411-5 Type A

E-6260

- **Material:** bridge: malleable steel
  U-bolt: mild steel
- **Standard:** EN 13411-5 Type A
  formerly DIN 1142
- **Finish:** electro-galvanized
- **Certification:** 2.1 CE IIB





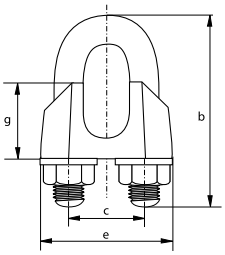
diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
3/16	3/16	31/32	15/32	9/16	31/32	1/2	1/2	5.07
1/4	1/4	1 1/4	9/16	21/32	1 3/16	5/8	9/16	8.6
5/16	5/16	1 5/8	23/32	25/32	1 17/32	25/32	23/32	18.52
13/32	5/16	1 13/16	25/32	15/16	1 9/16	25/32	13/16	18.52
15/32	13/32	2 7/32	15/16	1 3/32	1 31/32	31/32	15/16	37.5
1/2	15/32	2 17/32	1 5/32	1 5/32	2 5/32	1 3/32	1 5/32	58
9/16	15/32	2 19/32	1 3/32	1 7/32	2 5/16	1 3/16	1 3/32	63
5/8	9/16	3	1 11/32	1 3/8	2 17/32	1 1/4	1 3/8	93
3/4	9/16	3 9/32	1 15/32	1 13/32	2 11/16	1 5/16	1 9/16	108
7/8	5/8	3 25/32	1 5/8	1 9/16	2 29/32	1 11/32	1 23/32	148
1 1/32	25/32	4 3/8	1 13/16	1 31/32	3 5/16	1 1/2	2	245
1 3/16	25/32	5	2 1/8	2 5/32	3 3/4	1 5/8	2 5/16	309
1 11/32	7/8	5 9/16	2 3/8	2 3/8	4 1/8	1 25/32	2 5/8	445
1 9/16	15/16	6 1/4	2 11/16	2 9/16	4 19/32	1 15/16	3 1/32	591

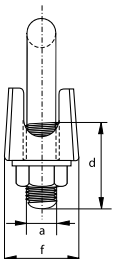
C

Wire Rope Clip

Generally to DIN 741

E-6220





- **Material:** bridge: cast
  U-bolt: mild steel
- **Standard:** formerly DIN 741
- **Finish:** electro-galvanized
- **Certification:** 2.1 CE IIB

diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
1/8	5/32	25/32	11/32	15/32	13/16	13/32	13/32	2.2
3/16	3/16	15/16	7/16	1/2	29/32	7/16	13/32	3.09
1/4	3/16	1 3/32	1/2	19/32	1 1/32	15/32	7/16	3.53
5/16	1/4	1 11/32	5/8	3/4	1 3/16	9/16	19/32	7.28
13/32	5/16	1 21/32	3/4	7/8	1 11/32	23/32	21/32	13.23
7/16	5/16	1 23/32	25/32	7/8	1 13/32	3/4	23/32	15.43
1/2	13/32	2 5/32	15/16	1 3/16	1 21/32	29/32	13/16	26
9/16	13/32	2 1/4	31/32	1 3/16	1 23/32	29/32	7/8	27.3
5/8	15/32	2 15/32	1 5/32	1 5/16	1 31/32	1 1/32	1 1/32	41.9
3/4	15/32	2 15/16	1 1/4	1 1/2	2 1/8	1 5/32	1 3/16	52
7/8	9/16	3 11/32	1 15/32	1 23/32	2 13/32	1 5/16	1 11/32	81
1 1/32	9/16	3 3/4	1 5/8	1 25/32	2 9/16	1 3/8	1 15/32	90
1 3/16	5/8	4 11/32	1 7/8	1 31/32	2 29/32	1 15/32	1 11/16	137
1 11/32	5/8	4 23/32	2 1/16	2 5/32	3 5/32	1 21/32	1 31/32	164
1 9/16	5/8	5 1/2	2 9/32	2 3/8	3 15/32	1 25/32	2 5/32	238
1 25/32	23/32	6 13/32	2 9/16	2 15/16	3 13/16	1 15/16	2 3/8	295
1 31/32	25/32	6 11/16	2 27/32	3 1/32	4 3/16	2	2 9/16	384

LIFTING SLING FITTINGS FOR WIRE ROPE

SLEEVES

Applications

Sleeves are used to create loop ends on wire rope slings. They are available in two types and in various sizes.

Design

Aluminium wire rope sleeves are manufactured according to EN 13411-3. For safety during fabrication and application they are of seamless construction. Prescon carbon steel sleeves are manufactured from carbon steel. The sleeves are of seamless construction and fit industry standard dies.

Instructions for use

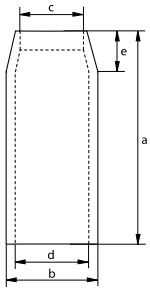
For Aluminium sleeves, please refer to EN 13411-3. Prescon sleeves are recommended for use with 6 x 19 or 6 x 37 IPS or XIP (EIP), RRL, FC, or IWRC wire rope. After creating a loop end multiple progressive pressings are required to prevent flash, which will develop into a permanent mark or possibly a crack in the sleeve. A light oil lubricant should be applied to each die before pressing. The sleeve must be cleaned after the swaging operation to stimulate effective colour change. Colour change is not an indication for proper swaging, only an indication that the sleeve has been pressed. Proper swaging practices are the sling manufacturer's responsibility. Before using sleeves with other type lay, construction or grade of wire rope, it is recommended that the termination be proof loaded to prove the adequacy of the assembly. Regular inspection of the swaging machine, dies etc. must be conducted to ensure that the equipment continues to meet required standards.

C

Prescon sleeves

For wire rope

S-6500

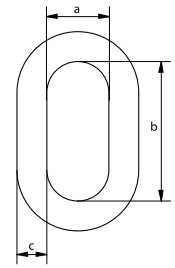


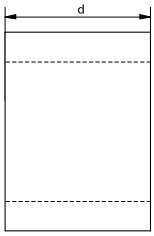
- **Material:** special carbon steel
- **Finish:** up to and including size 5/8 inch colour coded
  sizes above 5/8 inch self-coloured
- **Certification:** 2.1 CE IIB

diameter wire rope	length	diameter outside	diameter inside	diameter inside	length	diameter outside pressed	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	inch	lbs
1/4	1	21/32	5/16	15/32	9/32	1/2	4.74
5/16	1 1/2	29/32	7/16	5/8	7/16	23/32	14.33
13/32	1 1/2	29/32	15/32	21/32	7/16	23/32	12.13
7/16	2	1 7/32	9/16	27/32	19/32	31/32	24.9
1/2	2	1 7/32	5/8	29/32	19/32	31/32	27.6
9/16	2 3/4	1 15/32	11/16	1 1/32	23/32	1 3/16	43
5/8	2 3/4	1 15/32	3/4	1 3/32	23/32	1 3/16	57
3/4	3 3/16	1 23/32	29/32	1 9/32	27/32	1 13/32	88
7/8	3 17/32	2 1/32	1 1/32	1 17/32	1	1 5/8	137
31/32	4 1/32	2 9/32	1 5/32	1 23/32	1 1/8	1 7/8	187
1 3/32	4 13/16	2 17/32	1 9/32	1 15/16	1 1/4	2 3/32	260
1 1/4	5 3/16	2 25/32	1 7/16	2 5/32	1 13/32	2 9/32	340
1 11/32 - 1 3/8	5 13/16	3	1 9/16	2 3/8	1 9/16	2 7/16	430
1 15/32 - 1 1/2	6 1/4	3 9/32	1 11/16	2 5/8	1 11/16	2 5/8	500
1 23/32 - 1 25/32	7 1/4	4 1/32	1 15/16	3 1/8	1 31/32	3 1/32	809
1 31/32 - 2 1/16	8 1/2	4 3/8	2 1/4	3 5/8	2 1/4	3 1/2	1124
2 7/32 - 2 1/4	9 9/16	5 1/32	2 17/32	4 1/32	2 17/32	4 1/16	1900
2 7/16 - 2 17/32	10 1/2	5 1/2	2 3/4	4 1/2	2 25/32	4 7/16	2299
2 11/16 - 2 3/4	11 1/2	5 3/4	3	4 3/4	3 1/8	4 21/32	2800
2 15/16 - 3	12	5 31/32	3 9/32	5	3 3/8	4 7/8	2941
3 7/16 - 3 1/2	14 1/32	7	3 27/32	5 13/16	3 15/16	5 23/32	4641
3 21/32 - 3 3/4	15	7 17/32	4 1/16	6 5/16	4 1/4	6 5/32	5501
3 15/16 - 4 1/32	15 31/32	8 1/8	4 3/8	6 13/16	4 1/2	7 3/32	6900
4 13/32 - 4 1/2	18	9 1/8	4 7/8	7 5/8	5 3/32	7 3/8	10000

C

A-6550





Aluminium sleeves

For wire rope

- **Material:** aluminium
- **Standard:** EN 13411-3 formerly DIN 3093 A
- **Finish:** self-coloured
- **Certification:** 2.1 CE IIB

size	diameter	width	thickness	length	weight per 1000 pcs
	a inch	b inch	c inch	d inch	lbs
1	1/16	3/32	1/32	3/16	0.22
1.5	1/16	1/8	1/32	1/4	0.46
2	3/32	3/16	1/32	9/32	0.53
2.5	3/32	7/32	1/32	11/32	1.1
3	1/8	1/4	1/16	7/16	1.85
3.5	5/32	5/16	1/16	1/2	2.91
4	3/16	11/32	1/16	9/16	4.41
4.5	3/16	3/8	1/16	5/8	5.75
5	7/32	7/16	3/32	23/32	11.02
6	1/4	17/32	3/32	13/16	11.02
6.5	9/32	9/16	3/32	29/32	16.64
7	5/16	5/8	1/8	31/32	21
8	11/32	11/16	1/8	1 3/32	33.1
9	3/8	25/32	5/32	1 1/4	43.7
10	7/16	27/32	5/32	1 3/8	55
11	15/32	15/16	3/16	1 17/32	79
12	17/32	1 1/32	3/16	1 21/32	101
13	9/16	1 1/8	7/32	1 13/16	132
14	19/32	1 7/32	7/32	1 15/16	162
16	11/16	1 3/8	1/4	2 7/32	245
18	25/32	1 17/32	5/16	2 15/32	351
20	27/32	1 23/32	11/32	2 3/4	485
22	31/32	1 29/32	3/8	3 1/32	617
24	1 1/32	2 3/32	13/32	3 5/16	829
26	1 1/8	2 1/4	7/16	3 19/32	1060
28	1 7/32	2 7/16	15/32	3 27/32	1329
30	1 5/16	2 19/32	1/2	4 1/8	1620
32	1 3/8	2 25/32	17/32	4 13/32	1978
34	1 1/2	2 31/32	9/16	4 11/16	2381
36	1 9/16	3 1/8	19/32	4 31/32	2811
38	1 21/32	3 5/16	5/8	5 1/4	3285
40	1 23/32	3 15/32	21/32	5 1/2	3823
42	1 13/16	3 5/8	11/16	5 25/32	4277
44	1 29/32	3 13/16	23/32	6 1/16	5101
46	2	3 31/32	3/4	6 11/32	5637
48	2 3/32	4 5/32	25/32	6 5/8	6636
50	2 5/32	4 11/32	13/16	6 7/8	7496
52	2 1/4	4 1/2	27/32	7 5/32	8406
54	2 11/32	4 11/16	7/8	7 7/16	9083
56	2 7/16	4 27/32	29/32	7 23/32	10520
58	2 1/2	5 1/32	15/16	8	11464
60	2 19/32	5 3/16	31/32	8 9/32	12963

EN 13411-3 Table A.2 - Ferrule size numbers

Rope diameter			Ferrule size number			
			Case 1	Case 2	Case 3	Case 4
			single layer round strand ropes with FC and cable laid ropes	single layer round strand ropes with IWRC and rotation-resistant round strand ropes	single layer round strand ropes with IWRC, rotation-resistant ropes and parallel-closed ropes	spiral strands 2 ferrules
			C* ≥ 0,283	C* ≤ 0,487	0,487< C* ≤ 0,613	C* ≤ 0,613
Nominal	Measured					
d	from	to				
inch	inch	inch				
3/32	3/32	3/32	2.5	3	-	-
1/8	1/8	1/8	3	3.5	-	-
1/8	1/8	5/32	3.5	4	-	-
5/32	5/32	5/32	4	4.5	-	5
3/16	3/16	3/16	4.5	5	-	6
3/16	3/16	7/32	5	6	-	6.5
1/4	7/32	7/32	6	6.5	-	7
	1/4	1/4			7	
1/4	1/4	9/32	6.5	7	8	8
9/32	9/32	9/32	7	8	9	9
5/16	9/32	5/16	8	9	9	10
	5/16	11/32			10	
11/32	11/32	11/32	9	10	10	11
	11/32	3/8			11	
13/32	3/8	3/8	10	11	11	12
	13/32	13/32			12	
7/16	13/32	7/16	11	12	12	13
	7/16	15/32			13	
15/32	15/32	15/32	12	13	13	14
	15/32	1/2			14	
1/2	1/2	1/2	13	14	14	16
	1/2	17/32			16	
9/16	17/32	9/16	14	16	16	18
	9/16	19/32			18	
5/8	19/32	5/8	16	18	18	20
	5/8	21/32			20	
23/32	21/32	23/32	18	20	20	22
	23/32	3/4			22	
25/32	3/4	25/32	20	22	22	24
	25/32	13/16			24	
7/8	27/32	7/8	22	24	24	26
	7/8	29/32			26	
15/16	29/32	15/16	24	26	26	28
	15/16	1			28	
1 1/32	1	1 1/32	26	28	28	30
	1 1/32	1 1/16			30	
1 3/32	1 3/32	1 3/32	28	30	30	32
	1 3/32	1 5/32			32	
1 3/16	1 5/32	1 3/16	30	32	32	34
	1 3/16	1 1/4			34	
1 1/4	1 1/4	1 1/4	32	34	34	36
	1 1/4	1 5/16			36	
1 11/32	1 5/16	1 11/32	34	36	36	38
	1 11/32	1 13/32			38	
1 13/32	1 13/32	1 13/32	36	38	38	40
	1 13/32	1 1/2			40	
1 1/2	1 1/2	1 1/2	38	40	40	44
	1 1/2	1 9/16			44	
1 9/16	1 9/16	1 21/32	40	44	48	48
1 23/32	1 21/32	1 23/32	44	48	48	48
	1 23/32	1 13/16			52	52
1 7/8	1 13/16	1 7/8	48	52	52	52
	1 7/8	1 31/32			56	56
2 1/16	2	2 1/32	52	56	56	60
	2 1/16	2 5/32			60	
2 7/32	2 5/32	2 3/16	56	60	-	-
	2 7/32	2 5/16			-	-
2 3/8	2 5/16	2 11/32	60	-	-	-
	2 3/8	2 15/32		-	-	-

* for metallic cross-sectional area factor C refer to EN 12385 parts 4, 5 & 10

LIFTING SLING FITTINGS FOR WIRE ROPE

SOCKETS

Applications

Sockets are used as a connection to attach steel wire rope to a fixed point. This may be an anchoring system for tubes or pipes, anchor wires for dredging materials, anchor cables for oil platforms, fastening points for towing cables or for fastening cables in constructions such as bridges, roofs etc. Sockets are designed for in-line use only. Sockets are the strongest steel wire rope end fittings available. If they are assembled in the proper way they meet or exceed the breaking strength of the steel wire rope.

Design

Green Pin® open- and closed spelter sockets and Green Pin® open wedge sockets are made from cast high tensile steel.

These sockets are generally marked with:

- manufacturer's symbol - e.g. GP
- wire rope diameter in mm and inches - e.g. 20-22 and $^{7}/_{8}$"
- traceability code - e.g. A01
- socket number - e.g. 104

Swage sockets are drop forged from special bar quality carbon steel C-1035 and spheroidized annealed to make them suitable for cold swaging.

Socket Lock Socketing Resin

To offer a complete assortment, Green Pin®'s parent company, Royal Van Beest, is the distributor of Socket Lock Socketing Resin. Socket Lock Socketing Resin is designed for speltering wire rope. Socket Lock is developed with a unique formula that uses polyester fibres to thicken the resin and provide a homogenous (consistent) resin cone throughout. Unlike traditional products, which use large grain silica to thicken the resin, the fibres of the innovative Socket Lock Socketing Resin will suspend within the mixed resin and provide a consistent resin cone from top to bottom. The consistency of the resin cone prevents the formation of surface cracking once the resin is hardened. The formula is developed to ensure the resin flows easily and can optimally penetrate the bottom of the socket. This will result in an excellent resin cone, providing the end user with a high-quality socket termination. Socket Lock Socketing Resin kits are now available from stock at Green Pin® and can be ordered in kit sizes of 250, 500, 1000 and 2000 cc.

Additionally, Green Pin® also has the Socket Lock Socketing Booster Pack available. The booster packs are used for cold temperature socketing and are required when ambient temperatures are below +60 °F (+16 °C). For instructions for use, please consult the Green Pin® website: www.greenpin.com/socketlock.

Instructions for use

1) Open spelter sockets – closed spelter sockets

In the past melted zinc was poured into the sockets to fix the steel wire rope; nowadays resins are used for this purpose.

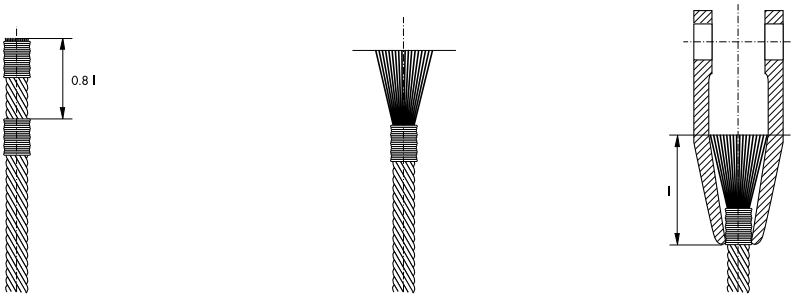


Figure 1

- brooming is done after the wire rope has been placed into the socket;
- when using resins always exactly follow the instructions given by the manufacturer carefully;
- socketing must be done by specialists in a certified sling shop.

2) Open wedge sockets

The wedge and body act as a vice which grips the wire rope and locks it in place. Green Pin® wedge sockets may be used within the range of wire rope diameters as shown in the table further on in the catalogue.

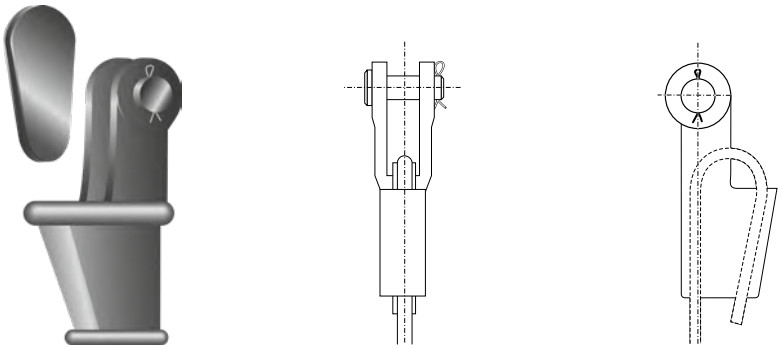


Figure 2

When using open wedge sockets the following precautions should be taken:

- before use always inspect the socket, the wedge and the pin;
- use only with standard 6-8 strand wire rope;
- in case of use with non-rotating wire rope there is a risk of core slippage or loss of rope lay. Instruction from the wire rope manufacturer must be followed to prevent this by; for example welding, brazing or seizing the dead end before introduction in the socket. The minimum tail length is 20 times the wire rope diameter. Furthermore, the wire rope construction must be checked for suitability of bending around the radius of the wedge. Additional measures might be necessary to prevent distortion;
- always be sure that socket and wedge have the correct size for the wire rope diameter;
- the loaded part of the steel wire rope should be mounted in the centre line of the pin;
- when installing the wire rope, always pre-load the wedge with the wire rope in place;
- never weld the tail; the tail should have a length of at least 6 times the wire rope diameter with a minimum of 5 $^{29}/_{32}$ inch. Secure the dead end of the rope with a wire rope clip as shown in figure 3;
- before applying the first load always use a hammer to seat the wedge and rope into the socket as deep as possible;
- check the assembly regularly; re-tighten or re-position if necessary;
- never side load a wedge socket as it has not been designed for that purpose;
- load may slip if the connection is not properly installed;
- the efficiency of a wire rope - wedge socket connection is 80 % of the minimum breaking load of the wire, but is limited to the minimum breaking load of the socket;
- only use the original wedge supplied by the manufacturer of the socket and be sure it is suitable for the diameter of the rope used;
- never use a wedge from any other supplier than the original socket supplier as the dimensions will not match.

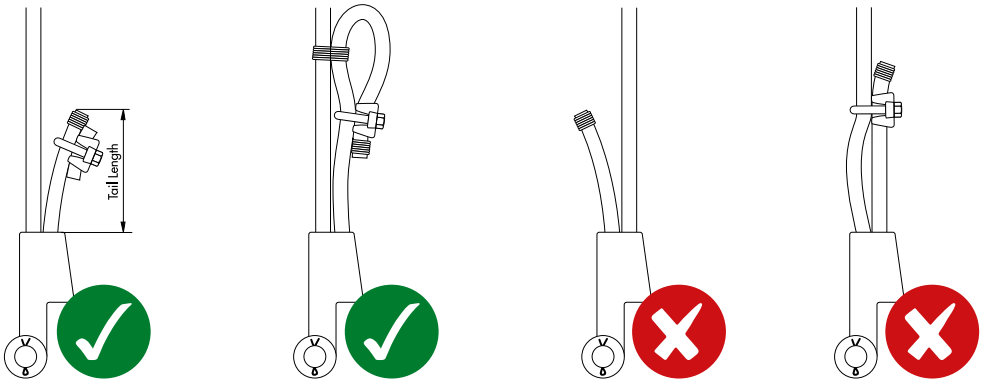


Figure 3

3) Open Long wedge sockets

Verify whether the wedge, socket and wire rope clip match to the wire rope size. In case of the long wedge sockets (G-6419 and G-6429) the correct wire rope size shall be verified using the "GO" and "NO GO" hole (see Figure 4);

- The wire rope MUST pass through the "GO" hole in the wedge;
- The wire rope shall NOT pass through the "NO-GO" hole in the wedge.

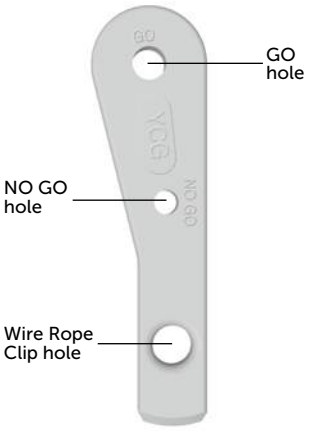


Figure 4

In case of the long wedge sockets (G-6419 and G-6429) mount the corresponding Wire Rope Clip (G-6240) on the dead end section, providing a grip for the tail of the wire rope (see Figure 5 below). The tail length of the wire rope has to be at least 6 times the wire rope diameter with a minimum of 5 $^{29}/_{32}$ inch.

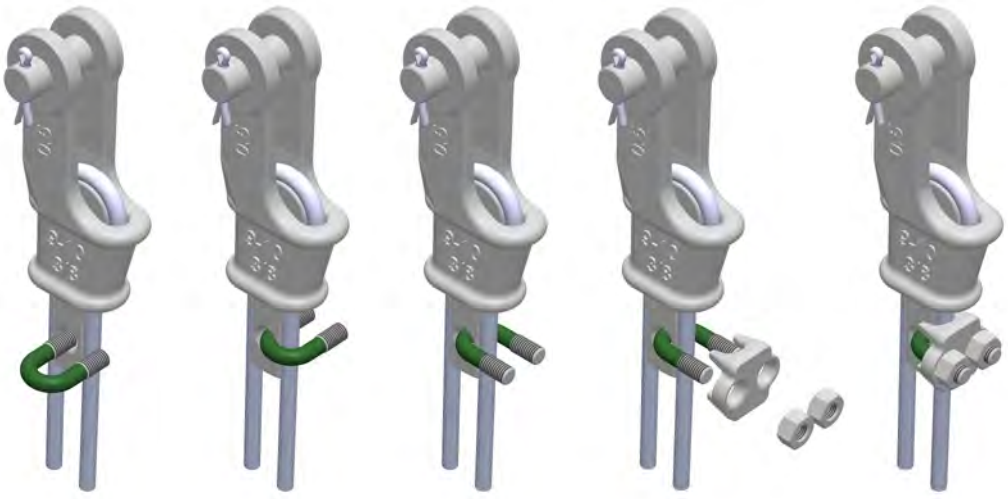


Figure 5

4) Swage sockets

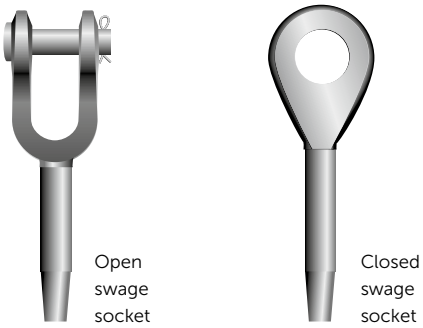


Figure 6

Swage Sockets are recommended for use on 6 x 19 or 6 x 37 IPS or XIP (EIP), XXIP (EEIP), RRL, FC, or IWRC wire ropes. They are also approved for use on galvanized bridge rope. Before using swage socket assemblies, it is recommended that the termination be proof loaded to prove the adequacy of the assembly. Always swage under supervision of a specialist from a certified sling shop.

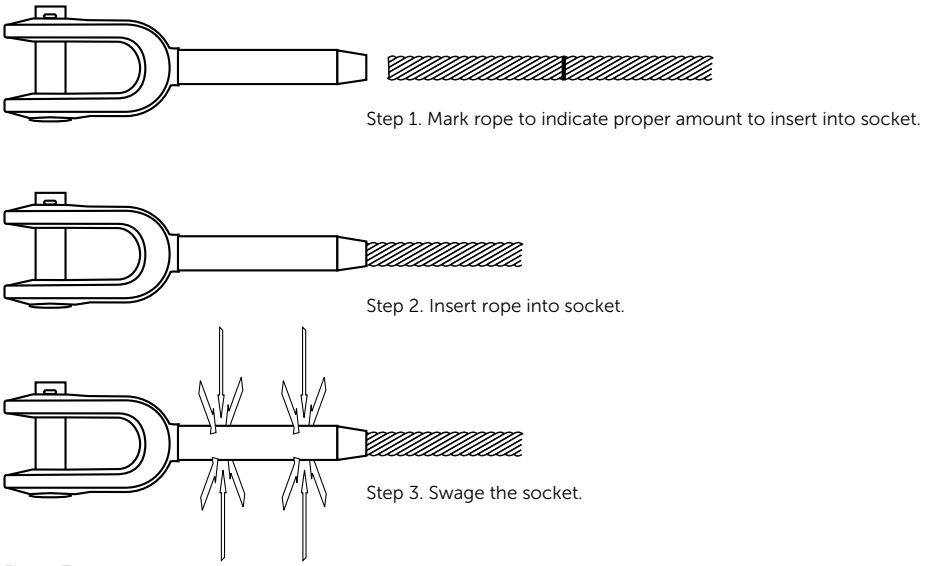


Figure 7

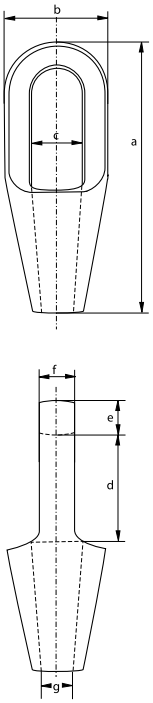
INFO For more instructions on swaging we refer to the swaging instruction (PI-03-14 in the FAQ section) on our website.

Sockets must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the sockets are used in severe operating conditions.

Green Pin® Closed Spelter Socket

Scan for additional product details

G-6411



- **Material:** high tensile steel, quenched and tempered
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

number	minimum breaking load	diameter wire rope	length	width	width inside bow	length inside bow	thickness bow	thickness bow	opening	weight each
	metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
296	8	1/4	3 31/32	1 15/32	7/8	1 9/16	7/16	1/2	11/32	0.6
297	12	3/8	4 11/16	1 11/16	31/32	1 7/8	9/16	11/16	15/32	0.95
298	20	7/16 - 1/2	5 1/2	2 1/16	1 3/16	2 9/32	23/32	15/16	19/32	1.68
299	25	9/16 - 5/8	6 3/8	2 11/16	1 15/32	2 19/32	13/16	1 1/32	11/16	3.35
200	45	3/4	7 5/8	3	1 21/32	3 1/16	1 1/16	1 1/4	27/32	5.09
201	70	7/8	8 13/16	3 5/8	1 27/32	3 17/32	1 5/16	1 1/2	15/16	9.5
204	85	1	9 31/32	4 3/32	2 1/4	4 1/16	1 13/32	1 23/32	1 3/32	13.29
207	105	1 1/8	11 3/32	4 1/2	2 15/32	4 9/16	1 17/32	2	1 1/4	17.61
212	136	1 1/4 - 1 3/8	12 9/32	5	2 3/4	5 1/8	1 11/16	2 1/4	1 1/2	24
215	150	1 1/2	14 3/32	5 11/32	3 1/8	6 3/32	2	2 15/32	1 5/8	30.4
217	170	1 5/8	15 11/32	5 3/4	3 9/32	6 23/32	2 1/8	2 3/4	1 23/32	38.4
219	225	1 3/4 - 1 7/8	17 7/16	6 23/32	3 21/32	7 25/32	2 5/32	3	2	59
222	280	2 - 2 1/8	19 3/4	7 19/32	3 15/16	8 13/16	2 7/16	3 7/32	2 1/4	86
224	360	2 1/4 - 2 3/8	21 9/16	8 1/2	4 13/32	9 23/32	2 7/8	3 5/8	2 15/32	121
226	425	2 1/2 - 2 5/8	23 1/2	9 1/2	5 1/2	10 5/8	3 1/8	4 1/32	2 7/8	156
227	460	2 3/4 - 2 7/8	25 11/32	10 3/4	6 1/4	11 1/4	3 1/8	4 7/8	3 1/8	225
228	560	3 - 3 1/8	27	11 1/2	6 23/32	11 23/32	3 9/32	5 1/4	3 3/8	271
229	625	3 1/4 - 3 3/8	29 1/4	12 1/4	7 1/4	12 1/4	4 1/32	5 3/4	3 5/8	335
230	720	3 1/2 - 3 5/8	31 1/32	13	7 3/4	13	4 1/32	6 1/4	3 29/32	392
231	875	3 3/4 - 4	33 9/32	14 1/4	8 1/2	14 1/32	4 1/4	7	4 1/4	514
233	1200	4 1/4 - 4 1/2	39 3/8	15 15/16	9 1/4	16 23/32	4 29/32	7 15/32	4 29/32	725
240	1300	4 3/4 - 5	45 9/32	17 23/32	10 1/4	20 21/32	4 29/32	7 7/8	5 5/8	999

CAD

Socket Lock Socketing Resin

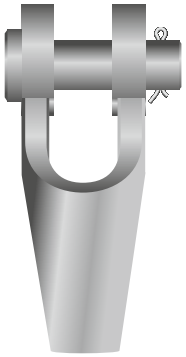
It is advised to use the Socket Lock Socketing Resin in combination with the Green Pin® Spelter Sockets. Go to **www.greenpin.com/socketlock** for more information about the Socket Lock Socketing Resin. To offer a complete assortment, Green Pin®'s parent company, Royal Van Beest, is the official distributor of Socket Lock Socketing Resin. Green Pin® can supply the Socket Lock resin kit sizes 250, 500, 1000 and 2000 cc from stock.

Green Pin® Open Spelter Socket CP

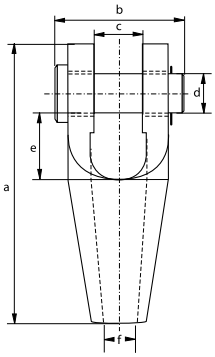
Open spelter socket with cotter pin

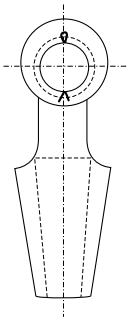
Scan for additional product details »

- **Material:** high tensile steel, quenched and tempered
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes



G-6412





number	minimum breaking load	diameter wire rope	length	width	width inside	diameter pin	length inside	opening	weight pin	weight each
	metric		a	b	c	d	e	f		
	t	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
196	8	1/4	4 9/32	2	3/4	5/8	1 5/16	11/32	1.98	1.04
197	12	3/8	4 7/8	2 7/16	13/16	13/16	1 11/32	15/32	0.37	1.57
198	20	7/16 - 1/2	5 5/8	2 19/32	1 1/32	31/32	1 15/32	19/32	0.57	2.29
199	25	9/16 - 5/8	6 25/32	3 7/32	1 5/16	1 3/16	1 15/16	23/32	1.04	4.03
100	45	3/4	8 1/16	3 3/4	1 1/2	1 3/8	2 9/32	13/16	1.63	6.81
104	60	7/8	9 1/4	4 11/32	1 23/32	1 5/8	2 11/16	15/16	2.62	10.32
108	85	1	10 13/16	5 1/8	2	2	2 15/16	1 3/32	4.74	18.41
111	105	1 1/8	12 1/16	5 21/32	2 1/4	2 1/4	3 11/32	1 1/4	6.50	25.1
115	136	1 1/4 - 1 3/8	13 5/16	6 3/32	2 15/32	2 17/32	3 3/4	1 1/2	8.86	34.2
118	150	1 1/2	15 1/2	7	3	2 3/4	5	1 5/8	12.21	51
120	170	1 5/8	16 15/32	7 3/8	3	3	5	1 23/32	15.19	60
125	225	1 3/4 - 1 7/8	18 7/16	8 3/8	3 1/2	3 1/2	5 1/4	2	23.37	93
128	280	2 - 2 1/8	21 23/32	9 7/16	3 31/32	3 3/4	7 3/32	2 1/4	30.20	141
130	360	2 1/4 - 2 3/8	23 17/32	10 5/8	4 7/16	4 1/4	7 23/32	2 15/32	43.87	201
132	425	2 1/2 - 2 5/8	25 3/4	11 15/16	5	4 3/4	8 11/32	2 7/8	62	280
135	460	2 3/4 - 2 7/8	27 13/32	13 3/4	5 1/4	5	8 15/32	3 1/8	78	362
138	560	3 - 3 1/8	29 1/32	14 19/32	5 3/4	5 1/4	8 5/8	3 3/8	91	439
140	625	3 1/4 - 3 3/8	31 1/32	15 13/32	6 1/4	5 1/2	8 31/32	3 5/8	107	518
142	720	3 1/2 - 3 5/8	33 17/32	16 3/16	6 23/32	5 31/32	9 17/32	3 29/32	132	648
144	875	3 3/4 - 4	35 31/32	17 19/32	7 17/32	7	10	4 1/4	196	866
146	1200	4 1/4 - 4 1/2	45 21/32	19 1/4	8 1/8	7 19/32	14 1/2	4 29/32	251	1415

CAD

Socket Lock Socketing Resin

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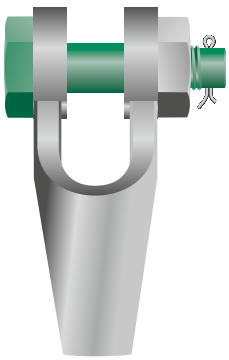
Green Pin® Open Spelter Socket BN

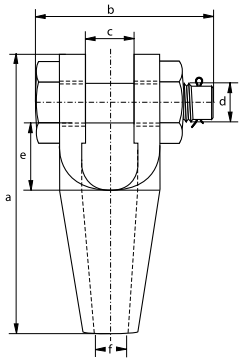
Open spelter socket with safety bolt

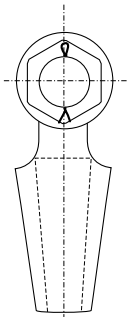
Scan for additional product details



- **Material:** high tensile steel, quenched and tempered
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

G-6422





number	minimum breaking load	diameter wire rope	length	width	width inside	diameter pin	length inside	opening	weight pin	weight each
	metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs	lbs
196	8	1/4	4 9/32	2 23/32	3/4	5/8	1 5/16	11/32	0.33	1.17
197	12	3/8	4 7/8	3 9/32	13/16	25/32	1 3/8	15/32	0.71	1.9
198	20	7/16 - 1/2	5 5/8	3 31/32	1 1/32	31/32	1 15/32	19/32	1.34	3.09
199	25	9/16 - 5/8	6 25/32	4 7/8	1 5/16	1 3/16	1 15/16	23/32	2.38	5.36
100	45	3/4	8 1/16	5 7/16	1 1/2	1 3/8	2 9/32	13/16	3.51	8.66
104	60	7/8	9 1/4	5 13/16	1 23/32	1 5/8	2 11/16	15/16	5.07	12.65
108	85	1	10 13/16	6 15/16	2	1 31/32	3	1 3/32	8.95	22.7
111	105	1 1/8	12 1/16	7 19/32	2 1/4	2 1/4	3 11/32	1 1/4	12.15	30.9
115	136	1 1/4 - 1 3/8	13 5/16	8 9/32	2 15/32	2 15/32	3 3/4	1 1/2	16.40	41.7
118	150	1 1/2	15 1/2	9 1/16	3	2 3/4	5	1 5/8	20.72	60
120	170	1 5/8	16 15/32	9 19/32	3	3 1/32	4 31/32	1 23/32	26.68	72

CAD

Socket Lock Socketing Resin

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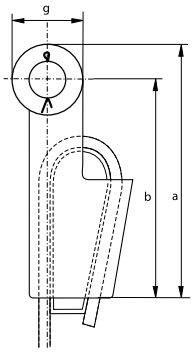
Green Pin® Open Wedge Socket CP

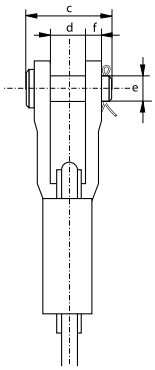
Open wedge socket with cotter pin

Scan for additional product details

G-6413

- **Material:** high tensile steel, quenched and tempered
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes





number	minimum breaking load	diameter wire rope	length	length to center pin	width	width inside	diameter pin	thickness side plates	diameter eye	weight pin	weight each
	metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs	lbs
0.25	8	5/16	5 1/32	4 11/32	2	23/32	5/8	11/32	1 13/32	0.20	1.83
0.5	12	3/8	6 1/2	5 19/32	2 7/16	13/16	13/16	7/16	1 13/16	0.37	3.48
1	20	1/2	6 7/8	5 3/4	2 19/32	31/32	31/32	15/32	2 1/4	0.57	5.51
2	25	5/8	8 5/16	6 15/16	3 7/32	1 7/32	1 3/16	19/32	2 3/4	1.04	9.74
3	40	3/4	9 29/32	8 11/32	3 3/4	1 1/2	1 3/8	5/8	3 5/32	1.63	17.11
4	55	7/8	11 11/32	9 7/16	4 11/32	1 23/32	1 5/8	3/4	3 3/4	2.62	24.9
5	75	1	12 15/16	10 25/32	5 1/8	2	2	7/8	4 11/32	4.76	36.4
6	90	1 1/8	14 3/4	12 7/32	5 21/32	2 1/4	2 1/4	31/32	5 1/8	6.50	48.1
7	110	1 1/4	16 21/32	13 25/32	6 3/32	2 15/32	2 17/32	1 3/32	5 3/4	8.86	68
8	125	1 3/8	18 21/32	15 3/4	6 13/32	2 23/32	2 17/32	1 3/32	5 13/16	9.30	87
9	150	1 1/2	20 3/4	17 23/32	7	3	2 3/4	1 3/16	6 1/32	12.21	109
10	170	1 5/8	22 27/32	19 11/16	7 3/8	3	3	1 5/16	6 5/16	15.17	150
11	225	1 3/4 - 1 7/8	25 19/32	21 21/32	8 3/8	3 1/2	3 1/2	1 17/32	7 5/16	23.4	207

CAD

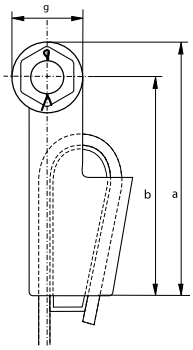
Green Pin® Open Wedge Socket BN

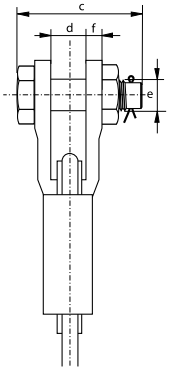
Open wedge socket with safety bolt

Scan for additional product details

- **Material:** high tensile steel, quenched and tempered
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

G-6423





number	minimum breaking load	diameter wire rope	length	length to center pin	width	width inside	diameter pin	thickness side plates	diameter eye	weight pin	weight each
	metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs	lbs
0.25	8	5/16	5 1/32	4 11/32	2 23/32	23/32	5/8	11/32	1 13/32	0.33	1.98
0.5	12	3/8	6 1/2	5 19/32	3 9/32	13/16	25/32	7/16	1 13/16	0.71	3.79
1	20	1/2	6 7/8	5 3/4	3 31/32	31/32	31/32	15/32	2 1/4	1.34	6.31
2	25	5/8	8 5/16	6 15/16	4 7/8	1 7/32	1 3/16	19/32	2 3/4	2.38	11.09
3	40	3/4	9 29/32	8 11/32	5 7/16	1 1/2	1 3/8	5/8	3 5/32	3.51	18.98
4	55	7/8	11 11/32	9 7/16	5 13/16	1 23/32	1 5/8	3/4	3 3/4	4.96	27.3
5	75	1	12 15/16	10 25/32	6 15/16	2	1 31/32	7/8	4 11/32	8.95	40.6
6	90	1 1/8	14 3/4	12 7/32	7 19/32	2 1/4	2 1/4	31/32	5 1/8	12.15	54
7	110	1 1/4	16 21/32	13 25/32	8 9/32	2 15/32	2 15/32	1 3/32	5 3/4	16.40	76
8	125	1 3/8	18 21/32	15 3/4	8 1/2	2 23/32	2 9/16	1 3/32	5 13/16	17.17	95
9	150	1 1/2	20 3/4	17 23/32	9 1/16	3	2 3/4	1 3/16	6 1/32	20.7	117
10	170	1 5/8	22 27/32	19 11/16	9 19/32	3	3 1/32	1 5/16	6 5/16	26.7	162

CAD

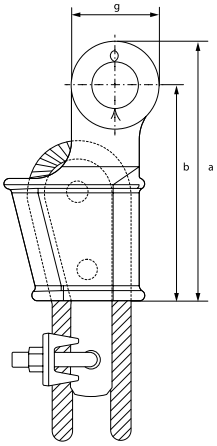
Green Pin® Open Long Wedge Socket CP

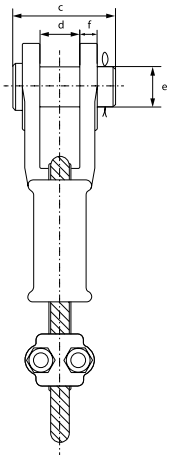
Open wedge socket with longer wedge, wire rope clip and cotter pin

Scan for additional product details

G-6419

- **Material:** high tensile steel
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes





number	minimum breaking load	diameter wire rope	length	length to center pin	width	width inside	diameter pin	thickness side plates	diameter eye	weight pin	weight each
	metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs	lbs
0.5	12	3/8	6 1/2	5 19/32	2 7/16	13/16	13/16	7/16	1 13/16	0.37	4.14
1	20	1/2	6 7/8	5 3/4	2 19/32	31/32	31/32	15/32	2 1/4	0.57	6.66
2	25	5/8	8 5/16	6 15/16	3 7/32	1 7/32	1 3/16	19/32	2 3/4	1.04	11.38
3	40	3/4	9 29/32	8 11/32	3 3/4	1 1/2	1 3/8	5/8	3 5/32	1.63	19.4
4	55	7/8	11 11/32	9 7/16	4 11/32	1 23/32	1 5/8	3/4	3 3/4	2.62	28.2
5	75	1	12 15/16	10 25/32	5 1/8	2	2	7/8	4 11/32	4.76	40.3
6	90	1 1/8	14 3/4	12 7/32	5 21/32	2 1/4	2 1/4	31/32	5 1/8	6.50	52
7	110	1 1/4	16 21/32	13 25/32	6 3/32	2 15/32	2 17/32	1 3/32	5 3/4	8.86	75

CAD

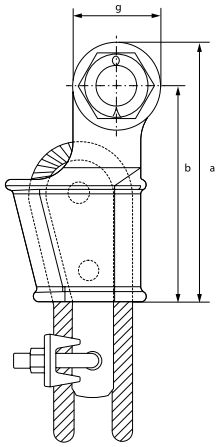
Green Pin® Open Long Wedge Socket BN

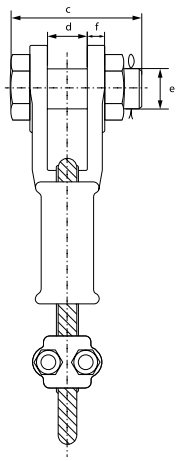
Open wedge socket with longer wedge, wire rope clip and safety bolt

Scan for additional product details

G-6429

- **Material:** high tensile steel
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes





number	minimum breaking load	diameter wire rope	length	length to center pin	width	width inside	diameter pin	thickness side plates	diameter eye	weight pin	weight each
	metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs	lbs
0.5	12	3/8	6 1/2	5 19/32	3 9/32	13/16	25/32	7/16	1 13/16	0.71	4.45
1	20	1/2	6 7/8	5 3/4	3 31/32	31/32	31/32	15/32	2 1/4	1.34	8.55
2	25	5/8	8 5/16	6 15/16	4 7/8	1 7/32	1 3/16	19/32	2 3/4	2.38	12.72
3	40	3/4	9 29/32	8 11/32	5 7/16	1 1/2	1 3/8	5/8	3 5/32	3.51	21.3
4	55	7/8	11 11/32	9 7/16	5 13/16	1 23/32	1 5/8	3/4	3 3/4	4.96	30.4
5	75	1	12 15/16	10 25/32	6 15/16	2	1 31/32	7/8	4 11/32	8.95	44.5
6	90	1 1/8	14 3/4	12 7/32	7 19/32	2 1/4	2 1/4	31/32	5 1/8	12.15	58
7	110	1 1/4	16 21/32	13 25/32	8 9/32	2 15/32	2 15/32	1 3/32	5 3/4	16.4	82

CAD

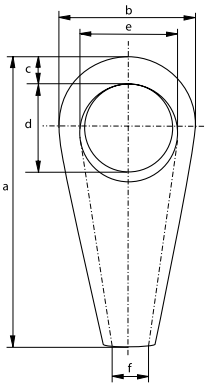
Green Pin® Short Bow Socket

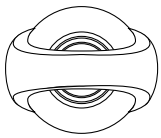
Closed spelter socket

- **Material:** cast alloy steel
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

Scan for additional product details »

G-6416





minimum breaking load	rope size	length	width	thicknes bow	length eye	width eye	opening	weight each
metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs
140	1 1/4 - 1 3/8	10 5/16	5 3/16	1 1/2	3 9/32	2 15/16	1 17/32	15.43
160	1 1/2 - 1 5/8	12	5 31/32	1 9/16	4 1/16	3 5/8	1 23/32	22
200	1 3/4 - 1 7/8	14 1/32	7	1 7/8	4 23/32	4 13/32	2	35.3
250	2 - 2 1/8	15 11/32	7 7/8	2 1/8	5 3/16	4 23/32	2 1/4	46.3
320	2 1/4 - 2 3/8	17 5/16	8 21/32	2 7/16	5 13/16	5 5/16	2 17/32	62
400	2 1/2 - 2 5/8	19 19/32	9 27/32	2 11/16	6 1/2	5 29/32	2 7/8	97
500	2 3/4 - 2 7/8	21 1/4	10 25/32	2 15/16	7	6 15/32	3 1/8	150
600	3 - 3 1/8	23 1/32	11 5/8	3	7 11/16	6 7/8	3 1/2	154
700	3 1/4 - 3 3/8	24 19/32	12 19/32	3 7/32	8 1/2	7 5/8	3 5/8	179
800	3 1/2 - 3 5/8	26 3/8	13 25/32	3 5/8	8 21/32	7 15/16	3 29/32	247
900	3 3/4 - 4	27 9/16	14 3/4	3 15/16	9 1/4	8 15/32	4 1/4	247
1000	4 1/4 - 4 1/2	31 1/2	16 17/32	4 11/32	10 5/8	9 7/16	4 23/32	401

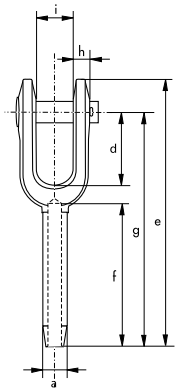
Green Pin® Open Swage Socket CP

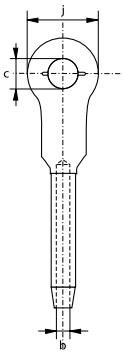
Open type swage socket with cotter pin

Scan for additional product details

- **Material:** drop forged steel C-1035
- **Finish:** self-coloured
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes

S-6414





diameter rope	diameter before swage	diameter after swage		diameter inside	diameter pin	length	length	length	length	thickness	width inside	width eye	weight each
		min	max										
inch	a inch	a inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
1/4	0.495	0.428	0.46	0.272	21/32	1 1/2	4 3/4	2 1/8	4 1/32	5/16	21/32	1 3/8	0.55
5/16	0.77	0.678	0.71	0.339	13/16	1 23/32	6 1/4	3 3/16	5 5/16	13/32	13/16	1 5/8	1.26
3/8	0.77	0.678	0.71	0.406	13/16	1 23/32	6 1/4	3 3/16	5 5/16	13/32	13/16	1 5/8	1.23
7/16	0.982	0.865	0.91	0.484	31/32	2	7 25/32	4 1/4	6 21/32	1/2	31/32	2	2.45
1/2	0.982	0.865	0.91	0.547	31/32	2	7 25/32	4 1/4	6 21/32	1/2	31/32	2	2.43
9/16	1.257	1.115	1.16	0.609	1 3/16	2 1/4	9 9/16	5 5/16	8 1/8	5/8	1 1/4	2 15/32	4.65
5/8	1.257	1.115	1.16	0.672	1 3/16	2 1/4	9 9/16	5 5/16	8 1/8	5/8	1 1/4	2 15/32	4.54
3/4	1.545	1.365	1.42	0.796	1 3/8	2 3/4	11 11/16	6 3/8	10	3/4	1 1/2	3	8.11
7/8	1.7	1.49	1.55	0.938	1 5/8	3 9/32	13 5/8	7 7/16	11 5/8	29/32	1 23/32	3 3/8	11.86
1	1.975	1.74	1.8	1.062	2	3 3/4	15 5/8	8 1/2	13 3/8	1 1/32	2	4 1/32	12.02
1 1/8	2.245	1.99	2.05	1.188	2 1/4	4 1/4	17 15/32	9 9/16	15	1 3/16	2 1/4	4 1/2	26.5
1 1/4	2.525	2.24	2.3	1.328	2 17/32	4 3/4	19 7/16	10 5/8	16 1/2	1 3/16	2 15/32	5	35.9
1 3/8	2.8	2.49	2.56	1.453	2 17/32	5 1/4	21 1/4	11 11/16	18 1/8	1 5/16	2 15/32	5 1/4	45.2
1 1/2	3.075	2.74	2.81	1.578	2 3/4	5 3/4	23 9/32	12 3/4	19 3/4	1 15/32	3	5 3/4	65
1 3/4	3.385	2.99	3.06	1.859	3 1/2	6 23/32	27 1/8	14 7/8	23	1 11/16	3 1/2	7	93
2	3.935	3.49	3.56	2.109	3 3/4	8	31 13/32	17	26 23/32	1 13/16	4 1/32	8	145
2 1/4	4.45	3.95	4.02	2.36	4 1/4	6 23/32	32 7/8	19 1/8	27 3/4	2 9/16	4 1/2	8 3/4	206
2 1/2	4.93	4.35	4.42	2.657	4 1/4	6 23/32	34 19/32	19 19/32	29 1/2	2 9/16	4 1/2	8 3/4	227
3	5.96	5.24	5.31	3.166	5 1/4	8 5/8	41 5/32	23 3/4	35 5/8	3	5 3/4	9 1/2	399

INFO

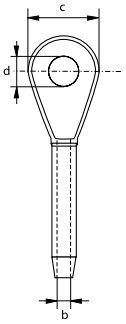
Green Pin® Closed Swage Socket

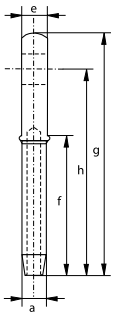
Closed type

Scan for additional product details

- **Material:** drop forged steel C-1035
- **Finish:** self-coloured
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes

S-6415





diameter rope	diameter before swage	diameter after swage		diameter inside	diameter	diameter eye	thickness	length	length	length	weight each
		min	max								
inch	a inch	a inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
1/4	0.495	0.428	0.46	0.272	1 15/32	3/4	1/2	2 1/8	4 3/8	3 1/2	0.33
5/16	0.77	0.678	0.71	0.339	1 11/16	7/8	21/32	3 3/16	5 1/2	4 1/2	0.77
3/8	0.77	0.678	0.71	0.406	1 11/16	7/8	21/32	3 3/16	5 1/2	4 1/2	0.73
7/16	0.982	0.865	0.91	0.484	2	1 1/16	7/8	4 1/4	6 15/16	5 3/4	1.46
1/2	0.982	0.865	0.91	0.547	2	1 1/16	7/8	4 1/4	6 15/16	5 3/4	1.37
9/16	1.257	1.115	1.16	0.609	2 15/32	1 1/4	1 5/32	5 5/16	8 3/4	7 1/4	2.98
5/8	1.257	1.115	1.16	0.672	2 15/32	1 1/4	1 5/32	5 5/16	8 3/4	7 1/4	2.89
3/4	1.545	1.365	1.42	0.796	3	1 15/32	1 5/16	6 3/8	10 13/32	8 5/8	5.07
7/8	1.7	1.49	1.55	0.938	3 1/2	1 11/16	1 1/2	7 7/16	12 1/8	10 1/8	7.5
1	1.975	1.74	1.8	1.062	4 1/32	2 1/16	1 23/32	8 1/2	13 3/4	11 1/2	10.96
1 1/8	2.245	1.99	2.05	1.188	4 1/2	2 5/16	2	9 9/16	15 1/4	12 3/4	15.87
1 1/4	2.525	2.24	2.3	1.328	5	2 9/16	2 1/4	10 5/8	17 1/4	14 3/8	23.1
1 3/8	2.8	2.49	2.56	1.453	5 1/4	2 9/16	2 1/4	11 11/16	18 27/32	15 3/4	29.3
1 1/2	3.075	2.74	2.81	1.578	5 1/2	2 25/32	2 15/32	12 3/4	20 13/32	17	39
1 3/4	3.385	2.99	3.06	1.859	6 23/32	3 19/32	3	14 7/8	24 1/32	20	56
2	3.935	3.49	3.56	2.109	7 3/4	3 13/16	3 9/32	17	27 15/32	23	90
2 1/4	4.45	3.95	4.02	2.36	8 5/8	4 11/32	4 1/32	19 1/8	29 3/4	24 7/8	122
2 1/2	4.93	4.35	4.42	2.657	8 5/8	4 11/32	4 1/32	19 19/32	31 5/32	26 1/4	142
3	5.96	5.24	5.31	3.166	9 1/4	5 5/16	5 13/32	23 3/4	37 3/4	32 1/8	251

INFO

LIFTING SLING FITTINGS FOR WIRE ROPE

SWIVELS

Applications

Thrust bearing swivels are used to prevent wire rope or chain from transferring their normal twisting motion to the item being lifted. Green Pin® swivels without bearings are not designed to rotate under load, but are intended as positioning devices only. For rotation under load, thrust bearing swivels should be used. Our swivels can be supplied with two types of end fittings.

Design

Green Pin® swivels (eye-eye/ jaw-eye) are drop forged. Green Pin® thrust bearing swivels are machined from carbon steel. The range of thrust bearing swivels we supply are fitted with grease nipples to ensure long life and smooth operation. The greasing schedule must be adjusted to the frequency and intensity of use.

Each swivel is generally marked with:

- Working Load Limit - e.g. 2.4 t
- manufacturer's symbol - e.g. GP
- traceability code - e.g. A1
- CE conformity code (conformité Européenne) - CE

Instructions for use

Swivels should be inspected before use to ensure that:

- all markings are legible;
- a swivel with the correct WLL has been selected;
- the bolt, nut or any other locking system cannot vibrate out of position;
- swivels are free from nicks, gouges and cracks;
- swivels are not distorted or unduly worn.

Also:

- swivels must be used for in-line lifting only;
- swivels may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a swivel by machining, welding, heating or bending as this may affect the WLL.

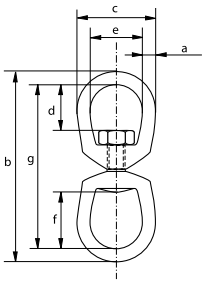
The WLL should be applied in-line. Avoid overloads. Side loading is not allowed since the swivels are not designed for this purpose. Never replace a swivel pin or nut with a pin other than the one designed for the purpose, as otherwise the swivel may not be suitable for the load imposed. Swivels must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the swivels are used in severe operating conditions.

Scan for additional product details »

Green Pin® EE Swivel

Swivel with eye-eye end-fitting

G-7713



- **Material:** high tensile steel, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** US Federal Spec. RR-C-271, Type VII, Class 2
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for WLL 8.2 t and 20.5 t swivels both eye parts are equipped with a nut

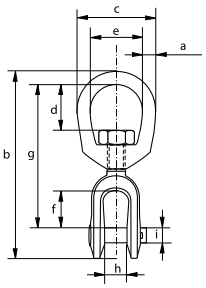
working load limit	diameter	length outside	width outside	length inside	width inside	length inside	length	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.4	1/4	3 7/16	1 1/4	23/32	3/4	1 1/16	2 15/16	0.22
0.6	5/16	4 7/32	1 5/8	13/16	31/32	1 1/4	3 19/32	0.4
1.12	13/32	5 5/32	2	15/16	1 1/4	1 1/2	4 3/8	0.66
1.63	1/2	6 15/32	2 17/32	1 5/16	1 1/2	2	5 7/16	1.32
2.4	5/8	7 25/32	3	1 9/16	1 25/32	2 13/32	6 17/32	2.2
3.3	3/4	8 11/16	3 1/2	1 25/32	2	2 5/8	7 7/32	3.95
4.54	7/8	10 1/8	4 1/32	2 3/32	2 1/4	3 1/16	8 3/8	5.62
5.7	1	11 23/32	4 1/2	2 5/16	2 17/32	3 3/8	9 3/4	8.95
8.2	1 1/4	14 1/16	5 5/8	2 11/16	3 5/32	2 11/16	11 17/32	18.7
20.5	1 1/2	21 5/16	7 25/32	4 11/32	4 13/16	4 11/32	18 5/16	57

CAD

Green Pin® JE Swivel CP

Swivel with jaw-eye end-fitting and cotter pin

G-7723



- **Material:** high tensile steel, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** US Federal Spec. RR-C-271, Type VII, Class 3
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter	length	width outside	length inside	width inside	length inside	length	width inside	diameter pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
0.4	1/4	3 15/32	1 1/4	23/32	3/4	7/8	2 5/8	15/32	1/4	0.2
0.6	5/16	3 29/32	1 5/8	13/16	31/32	29/32	2 15/16	1/2	5/16	0.35
1.12	13/32	4 13/16	2	15/16	1 1/4	1 1/16	3 5/8	5/8	13/32	0.71
1.63	1/2	6 1/16	2 17/32	1 5/16	1 1/2	1 5/16	4 17/32	13/16	1/2	1.26
2.4	5/8	7 1/4	3	1 9/16	1 25/32	1 1/2	5 5/16	1 1/32	5/8	2.16
3.3	3/4	8 5/16	3 1/2	1 25/32	2	1 25/32	6 1/16	1 7/32	3/4	4.14
4.54	7/8	9 19/32	4 1/32	2 3/32	2 1/4	2 1/16	7	1 7/32	29/32	5.36
5.7	1	11 11/16	4 1/2	2 5/16	2 17/32	2 27/32	8 19/32	1 27/32	1 5/32	8.86
8.2	1 1/4	13 3/16	5 5/8	2 11/16	3 5/32	2 27/32	9 7/16	2 1/4	1 3/8	16.38
20.5	1 1/2	21 1/32	7 25/32	4 11/32	4 13/16	4 9/16	15	3 1/16	2	48.7

CAD

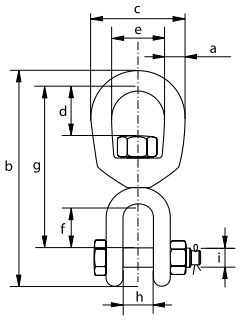
Green Pin® JE Swivel BN

Swivel with jaw-eye end-fitting and safety bolt

Scan for additional product details

- **Material:** high tensile steel, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** US Federal Spec. RR-C-271, Type VII, Class 3
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Article code:** scan QR code to see article codes

G-7733



working load limit	diameter	length outside	width outside	length inside	width inside	length inside	length	width inside	diameter pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
0.6	5/16	3 29/32	1 5/8	13/16	31/32	29/32	2 15/16	1/2	5/16	0.35
1.12	13/32	4 13/16	2	15/16	1 1/4	1 1/16	3 5/8	5/8	13/32	0.71
1.63	1/2	6 1/16	2 17/32	1 5/16	1 1/2	1 5/16	4 17/32	13/16	1/2	1.26
2.4	5/8	7 1/4	3	1 9/16	1 25/32	1 1/2	5 5/16	1 1/32	5/8	2.16
3.3	3/4	8 5/16	3 1/2	1 25/32	2	1 25/32	6 1/16	1 7/32	3/4	4.14
4.54	7/8	9 19/32	4 1/32	2 1/16	2 1/4	2 3/32	7	1 7/32	7/8	5.36
5.7	31/32	11 11/16	4 1/2	2 5/16	2 17/32	2 27/32	8 19/32	1 27/32	1 3/32	8.86

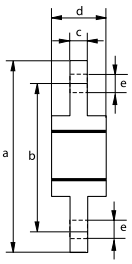
CAD

Green Pin® Thrust Bearing EE Swivel

Swivel with eye-eye end-fitting and thrust bearings

- **Material:** carbon steel
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted black
- **Certification:** 2.1 2.2 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** equipped with two thrust ball bearings to enable rotation under load

P-7740



working load limit	length	length	thickness	diameter	diameter hole	weight each
metric t	a inch	b inch	c inch	d inch	e inch	lbs
1	6 27/32	5 1/32	1/2	1 15/16	13/16	3.09
2	8 25/32	6 13/16	3/4	2 11/16	7/8	7.72
3	10 15/16	8 9/32	1 1/32	3 1/8	1 5/32	14.11
5	11 13/32	8 3/4	1 1/32	3 1/2	1 7/32	17.42
8	14 13/32	10 7/8	1 9/16	4 3/16	1 11/16	33.5
10	15 11/32	11 13/16	1 9/16	4 21/32	1 15/16	42.1
15	18	13 31/32	1 9/16	5 1/32	1 15/16	59
20	18 21/32	14 21/32	1 9/16	4 21/32	2	55
30	24 3/32	18 19/32	2 17/32	5 7/16	2 5/16	110
40	29 29/32	23 5/8	2 11/16	6 5/8	2 9/16	203

LIFTING SLING FITTINGS FOR WIRE ROPE

HOOKS

Applications

Hooks are used in lifting systems as a connection between the load to be lifted and the wire rope slings.

Design

There are different types of hooks with specific designs to suit various purposes.

Hooks attachment options to sling:
- Hook with an eye at the top
- Hook with a swivel eye at the top

Hook designs:
- Self-locking hook
- Sling hook
- Sliding Choker Hook

Hooks are generally marked with:

• Working Load Limit (specific products)	- e.g. 5.4 t
• manufacturer's symbol	- e.g. GP
• traceability code	- e.g. H-AB or HA
• steel grade	- e.g. 4 or 8
• size in mm and/or inch (specific products)	- e.g. 13 and/or $^1/_2$"
• item code (specific products)	- e.g. CSO
• origin (specific products)	- e.g. France

Examples of do's and don'ts

A hook cannot be used as a clamp.

Don't use hooks without latch, as an exception is the foundry hook.

Hook body and latch may not be bent. This is a sign the hook is overloaded.

Instructions for use

Wire rope hooks, should be inspected before use to ensure that:

- all markings are legible.
- a hook with the correct WLL has been selected with respect to the sling design.
- hooks are free from nicks, gouges, and cracks.
- hooks are not heat treated, modified, repaired, or reshaped by machining or bended. (This may affect their Working Load Limit).
- hooks are not distorted or unduly worn. (Maximum allowable wear is 10 % of the original diameter)
- the latch of the hook(s) is present and functional.
- the hook is never side-, tip- or back- loaded.
- the hook is supporting the load correctly.
- the latch should not be supporting any load.
- only use the hook for in-line lifting.

Hooks must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use), and more frequently when the links are used in severe operating conditions.

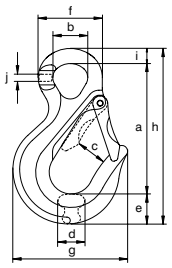
Scan for additional product details »

Green Pin® Sling Hook E EN 1677-2 GR8

Grade 80 eye sling hook EN 1677-2

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 * | MTC [a] | MPI [b] * | DGUV * | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 8.2 t without flat part. For use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

CSO



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	diameter eye outside	width outside	length outside	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	3 3/8	29/32	1 1/32	19/32	3/4	1 11/16	2 27/32	4 1/2	13/32	1/4	0.62
1/4 - 5/16	2	4 1/16	1 1/32	1 3/16	25/32	15/16	2	3 7/16	5 15/32	15/32	5/16	1.23
3/8	3.2	5 3/32	1 13/32	1 5/16	15/16	1 3/32	2 9/16	4 3/16	6 23/32	19/32	13/32	2.38
1/2	5.4	5 31/32	1 5/8	1 15/32	1 1/4	1 17/32	3 1/32	5 1/4	8 7/32	23/32	15/32	4.19
5/8	8.2	7 17/32	2 1/16	1 11/16	1 9/16	1 11/16	3 11/16	6 1/2	10 1/32	13/16	21/32	7.72
3/4	12.8	9 11/32	2 13/32	2 13/32	1 15/16	2 13/32	4 17/32	8 3/16	12 27/32	1 3/32	13/16	15.52
7/8	15.5	11 1/32	2 27/32	2 15/16	2 1/8	2 17/32	5 3/16	9 17/32	14 3/4	1 3/16	29/32	21.9
1 **	21.6	9 7/8	1 7/8	2 7/8	2 5/32	3 3/8	4 3/8	9 9/32	14 9/32	1 1/4	1 1/4	31.1
1 1/4 **	32.8	11 1/2	2 9/32	3 7/16	2 5/8	4 3/32	5 15/32	11 1/4	17 1/8	1 17/32	1 17/32	47.8

* Excluding sizes 1 inch and 1 1/4 inch
** Different design

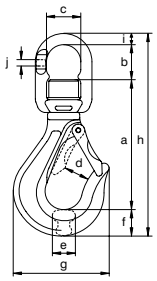
INFO CAD

Green Pin® Sling Hook SE EN 1677-2 GR8

Grade 80 swivel sling hook EN 1677-2

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearings to enable rotation under load and need to be used with rotating resistant wires. For use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

CSE



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length outside	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	3 15/16	1 5/16	1 1/4	1 1/32	19/32	25/32	2 27/32	6 15/32	15/32	1/4	1.19
1/4 - 5/16	2	4 31/32	1 9/16	1 15/32	1 3/16	25/32	31/32	3 7/16	8 1/32	9/16	5/16	2.2
3/8	3.2	6 7/32	1 27/32	1 7/8	1 5/16	15/16	1 5/32	4 3/16	9 27/32	5/8	7/16	4.19
1/2	5.4	7 7/16	2 5/16	2 9/32	1 15/32	1 1/4	1 17/32	5 1/4	12 1/8	13/16	9/16	7.5
5/8	8.2	8 11/16	2 5/8	2 7/8	1 23/32	1 9/16	1 23/32	6 1/2	14 1/32	31/32	21/32	14
3/4	12.8	10 11/32	3 7/16	3 7/32	2 13/32	1 15/16	2 7/16	8 7/32	17 7/32	31/32	13/16	22.9

INFO CAD

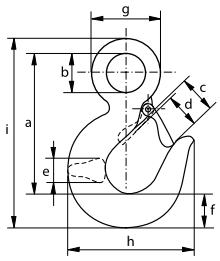
Green Pin® Hook E GR8

Grade 80 large eye hook with safety latch

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** generally to EN 1677-2
- **Finish:** painted red
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

P-6714A



working load limit	length	diameter eye inside	opening hook	opening hook	thickness	width	diameter eye outside	width outside	length outside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
1.25	3 3/16	3/4	15/16	25/32	5/8	3/4	1 15/32	2 3/4	4 9/32	0.66
1.6	3 19/32	29/32	1 1/32	7/8	23/32	7/8	1 13/16	3 1/8	4 7/8	0.97
2.5	4 1/8	1 1/16	1 1/4	1 1/16	25/32	1 1/16	2 1/16	3 21/32	5 23/32	1.39
3.2	4 7/8	1 1/4	1 11/32	1 3/16	15/16	1 3/16	2 7/16	4 9/32	6 21/32	2.38
5.4	5 25/32	1 17/32	1 23/32	1 15/32	1 7/32	1 13/32	2 29/32	5	7 29/32	3.44
8.2	7 15/32	1 31/32	2 5/32	1 7/8	1 15/32	1 7/8	3 25/32	6 5/8	10 9/32	8.71
12.8	9 1/16	2 17/32	2 17/32	2 3/32	1 7/8	2 13/32	4 31/32	7 25/32	12 11/16	17.09
16	10	2 25/32	2 3/4	2 3/8	2 9/32	2 23/32	5 15/32	8 25/32	14 1/16	23.8
22	12 7/16	3 1/2	3 19/32	3 1/32	2 15/32	3 3/16	6 21/32	11 5/32	17 7/32	37.3

CAD

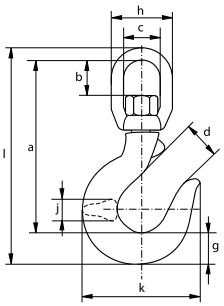
Green Pin® Hook SE GR8

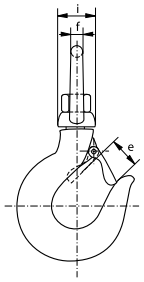
Grade 80 swivel eye hook with safety latch

Scan for additional product details »

P-6703A

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted red
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84





working load limit	length	length inside	width inside	opening hook	opening hook	diameter	width	width	width	thickness	width outside	length outside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	lbs
1.25	4 21/32	1 3/32	1 7/32	15/16	25/32	7/16	3/4	2 3/32	1 3/16	5/8	2 3/4	5 25/32	1.08
1.6	5 23/32	1 3/8	1 9/16	1 1/32	7/8	9/16	7/8	2 11/16	1 15/32	23/32	3 1/8	7 1/8	2.09
2.5	6 9/16	1 11/16	1 27/32	1 1/4	1 1/16	21/32	1 1/16	3 3/16	1 11/16	25/32	3 21/32	8 9/32	3.26
3.2	7 3/32	1 27/32	1 27/32	1 11/32	1 3/16	21/32	1 7/32	3 3/16	1 11/16	15/16	4 9/32	8 31/32	3.92
5.4	8 17/32	2 1/8	2 17/32	1 23/32	1 15/32	13/16	1 13/32	4 3/16	2 17/32	1 7/32	5	10 13/16	8.16
8.2	10 13/16	2 23/32	3 1/16	2 5/32	1 25/32	1 1/32	1 7/8	5 1/8	3 1/32	1 15/32	6 5/8	13 3/4	16.23
11.5	12 7/32	2 11/16	3 7/32	2 9/32	2 3/32	7/8	2 3/8	5 29/32	3 7/32	1 11/16	7 25/32	15 21/32	21.4
16	13 27/32	3 5/16	3 5/8	2 19/32	2 9/32	15/16	2 5/8	6 1/16	3 5/8	2 1/16	8 3/4	17 25/32	32.8
22	17 3/32	4 7/32	4 17/32	3 7/16	3 1/16	1 5/32	3 5/32	7 17/32	4 1/4	2 17/32	11 5/32	21 23/32	57
31.5	20 5/32	4 19/32	5 3/16	3 13/16	3 7/16	1 11/32	3 11/16	8 3/4	5 3/16	3 5/32	13 11/32	25 25/32	101

CAD

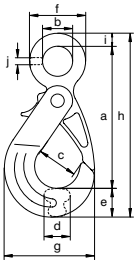
Scan for additional product details

Green Pin® Self Locking Hook E EN 1677-3 GR8

Grade 80 eye self locking hook EN 1677-3

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 12.8 t without flat part
  for use of this component in a wire rope sling the safety factor must be 5 : 1,
  see the table on page 84

XLO



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	4 7/16	15/16	1 1/4	5/8	15/16	1 27/32	2 15/16	5 13/16	7/16	1/4	1.12
1/4 - 5/16	2	5 11/32	1 3/16	1 11/16	15/16	1 3/32	2 1/4	3 19/32	7	9/16	5/16	2.01
3/8	3.2	6 5/8	1 13/32	1 7/8	1 1/4	1 11/32	2 11/16	4 3/8	8 19/32	5/8	13/32	3.95
1/2	5.4	7 29/32	1 27/32	2 15/32	1 15/32	1 11/16	3 7/16	5 9/16	10 13/32	25/32	1/2	7.41
5/8	8.2	9 7/8	2 3/8	2 15/16	1 11/16	2 7/32	4 3/8	7 5/32	13 1/16	1 1/32	5/8	15.43
3/4	12.8	11 5/32	2 3/4	3 17/32	2 1/16	2 7/16	4 31/32	8	14 11/16	1 3/32	13/16	20.3

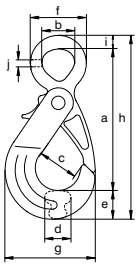
CAD | INFO

Green Pin® Self Locking Hook E GR8

Grade 80 eye self locking hook

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | MTC [a] | MPI [b] | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** GK hooks are more compact than XL hooks
  for use of this component in a wire rope sling the safety factor must be 5 : 1,
  see the table on page 84

GKO



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
1/4 - 5/16	2	4 13/32	1 1/32	1 1/4	21/32	15/16	1 7/8	2 15/16	5 25/32	7/16	11/32	1.17
3/8	3.2	5 11/32	1 7/32	1 23/32	15/16	1 3/32	2 3/8	3 19/32	7 1/16	19/32	13/32	2.12
1/2	5.4	6 27/32	1 9/16	1 7/8	1 1/4	1 5/16	3	4 3/8	8 29/32	23/32	15/32	4.1
5/8	8.2	8 7/32	1 31/32	2 15/32	1 15/32	1 21/32	3 21/32	5 9/16	10 3/4	7/8	5/8	7.69
3/4	12.8	10	2 13/32	2 15/16	1 23/32	2 5/32	4 9/16	7 1/4	13 9/32	1 3/32	25/32	16.16
7/8	15.5	11 11/32	2 27/32	3 17/32	2 1/16	2 13/32	5 3/16	8 1/16	14 29/32	1 3/16	13/16	21.8

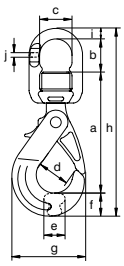
CAD | INFO

Scan for additional product details »

Green Pin® Self Locking Hook SE EN 1677-3 GR8

Grade 80 swivel self locking hook EN 1677-3

XLE



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearings to enable rotation under load and need to be used with rotating resistant wires
  for use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

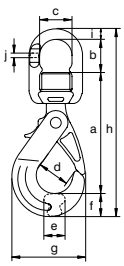
for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	4 27/32	1 5/16	1 1/4	1 1/4	5/8	15/16	2 15/16	7 17/32	15/32	1/4	1.72
1/4 - 5/16	2	5 7/8	1 5/8	1 15/32	1 11/16	15/16	1 3/32	3 19/32	9 1/8	9/16	5/16	3.06
3/8	3.2	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 11/32	4 13/32	11 5/32	5/8	7/16	5.64
1/2	5.4	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 23/32	5 9/16	13 9/32	13/16	9/16	10.05
5/8	8.2	10 3/4	2 5/8	2 7/8	2 15/16	1 11/16	2 7/32	7 5/32	16 17/32	31/32	21/32	20.9
3/4	12.8	11 31/32	3 7/16	3 7/32	3 17/32	2 1/16	2 7/16	8 1/16	18 13/16	31/32	7/8	28

CAD | INFO

Green Pin® Self Locking Hook SE GR8

Grade 80 swivel self locking hook

GKE



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | MTC [a] | MPI [b] | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearings to enable rotation under load and need to be used with rotating resistant wires
  GK hooks are more compact than XL hooks
  for use of this component in a wire rope sling the safety factor must be 5 : 1, see the table on page 84

for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
1/4 - 5/16	2	4 27/32	1 5/16	1 1/4	1 1/4	21/32	15/16	2 15/16	7 17/32	15/32	1/4	1.7
3/8	3.2	5 7/8	1 5/8	1 15/32	1 23/32	15/16	1 3/32	3 19/32	9 3/32	9/16	5/16	3.04
1/2	5.4	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 5/16	4 3/8	11 3/32	5/8	7/16	5.64
5/8	8.2	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 21/32	5 9/16	13 7/32	13/16	9/16	10.1
3/4	12.8	10 23/32	2 5/8	2 7/8	2 15/16	1 25/32	2 5/32	7 1/4	16 15/32	31/32	21/32	21

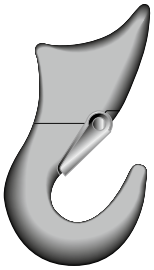
CAD | INFO

Green Pin® Alloy Sliding Choker Hook

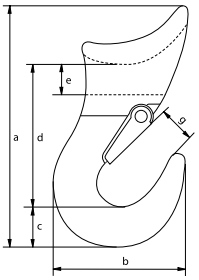
Grade 80 sliding choker hook with safety latch

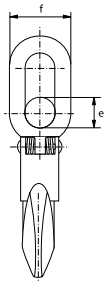
Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes



P-6706A





working load limit	diameter rope	length	width	thickness	length	diameter	thickness	opening hook	weight each
metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.8	1/4 - 7/16	4 13/32	2 15/32	3/4	2 9/16	9/16	1 3/16	5/8	0.88
1.6	3/8 - 1/2	5 5/8	3 7/32	1 1/32	3 9/32	21/32	1 3/16	23/32	1.68
2.5	9/16 - 5/8	6 11/16	3 27/32	1 3/16	3 13/16	3/4	1 5/16	15/16	2.82
3.2	5/8 - 7/8	7 23/32	4 17/32	1 13/32	4 11/32	7/8	1 9/16	1 1/16	4.21
5.4	7/8 - 1	10 1/4	5 19/32	1 13/16	5 23/32	1 13/32	2 3/8	1 3/8	9.26

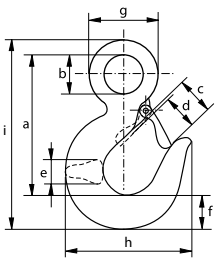
CAD

C

Eye hook

Grade 40 large eye hook with safety latch

P-6714C



- **Material:** carbon steel, grade 40
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted green
- **Certification:** 2.1 2.2 3.1 CE IIA

working load limit	length	diameter eye inside	opening hook	opening hook	thickness	width	diameter eye outside	width outside	length outside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
0.8	3 3/16	3/4	15/16	25/32	5/8	3/4	1 15/32	2 3/4	4 9/32	0.64
1	3 19/32	29/32	1 1/32	7/8	23/32	7/8	1 13/16	3 1/8	4 7/8	0.97
1.6	4 1/8	1 1/16	1 1/4	1 1/16	25/32	1 1/16	2 1/16	3 21/32	5 23/32	1.41
2	4 7/8	1 1/4	1 11/32	1 3/16	15/16	1 3/16	2 7/16	4 9/32	6 21/32	2.38
3.2	5 25/32	1 17/32	1 23/32	1 15/32	1 7/32	1 13/32	2 29/32	5	7 29/32	3.99
5	7 15/32	1 31/32	2 5/32	1 7/8	1 15/32	1 7/8	3 25/32	6 5/8	10 9/32	8.27

CAD

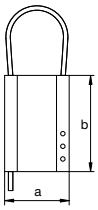
Green Pin® ID Tag

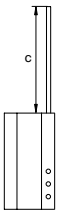
Aluminium identification tag

- **Material:** aluminium
- **Finish:** see table below
- **Certification:** 2.1

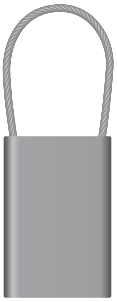
Scan for additional product details

TAG





partnumber	finish	width	length	length	weight each
		a inch	b inch	c inch	lbs
TAGVIERGE	self-coloured	2	3	8 21/32	0.15
TAGJ	anodized yellow	2	3	8 21/32	0.15
TAGGREEN	anodized green	2	3	8 21/32	0.15
TAGRED	anodized red	2	3	8 21/32	0.15
TAGBLUE	anodized blue	2	3	8 21/32	0.15
TAGDEMI	self-coloured	2	1 1/2	8 21/32	0.09
TAGB without wire rope	self-coloured	2	3		0.13



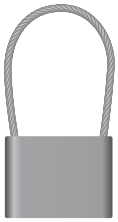
TAGVIERGE

TAGJ

TAGGREEN

TAGRED

TAGBLUE

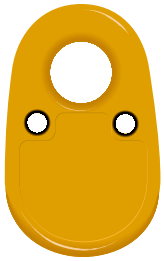


TAGDEMI

Scan for additional product details

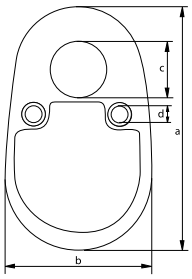
Green Pin® RFID Tag

Accessory for radio-frequency identification of slings



TAGRFID

- **Material:** stainless steel
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Finish:** polymer
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



length	width	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
2 3/32	1 5/16	15/32	5/32	3.97

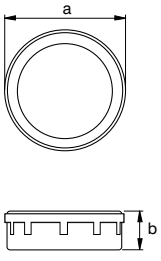
RFID INFO

Green Pin® RFID Chip

Accessory for radio-frequency identification of slings

CHIPRFID

- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



diameter	thickness	weight per 100 pcs
a inch	b inch	lbs
1/4	3/32	0.04

RFID INFO

LIFTING SLING FITTINGS

FOR GRADE 80 CHAIN

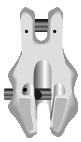
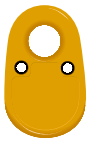
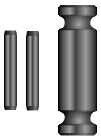
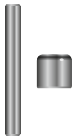
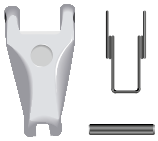
Applications

Green Pin® grade 80 lifting sling fittings enable the assembly of a complete sling from the top master link to the hooks.

For specific product information the following product groups can be found on the mentioned page:

Top links					
MS page 150	**MTS** page 151				
Connectors					
MP page 152	**CO** page 152	**MJ** page 153			
Chain					
CHAIN page 153					

Table continues on next page

Shorteners					
CRO page 154	**CRC** page 154	**GC** page 155	 **GCV** page 155	**GDV** page 156	
End-fittings					
ELR page 156	**CSO** page 157	**CSC** page 157	**CSE** page 158	**CSECA** page 158	**P-6714A** page 159
P-6703A page 161	**P-6731** page 161	**XLO** page 162	**GKO** page 162	**XLC** page 163	**GKC** page 163
XLE page 164	**GKE** page 164	**XLBA** page 165	**GH** page 166	**CFO** page 166	
Accessories					
TAG page 167	**TAGF** page 167	 **TAGRFID** page 168	**CHIPRFID** page 168	**VR** page 169	 **AC** page 170
 **RMJ** page 171	 **LF** page 172	**RCOS** page 173			

Range

Green Pin® supplies a range of grade 80 lifting sling fittings for $^{3}/_{16}$ inch to 1 $^{1}/_{4}$ inch chain diameters.

Below lifting sling fittings can be found:
- Links, e.g. Green Pin® Master Link, Connecting Link
- Chain, e.g. Green Pin® Lifting Chain EN818-2 Grade 80
- Swivel, e.g. Green Pin® Needle Bearing Swivel Eye-Eye
- Hooks, e.g. Green Pin® Sling Hook, Self Locking Hook

Design

Connecting links and lifting sling fittings with clevis connection are supplied unassembled and ready for immediate use. Assembly is quick and easy.
Master links, eye hooks and eye swivels are generally supplied with a flat part for easy connection to the sling or for easy assembly with the omega link.

There are different types of hooks with specific designs to suit various purposes.

Hooks attachment options to sling:
- Hook with an eye at the top
- Hook with a swivel eye at the top
- Hook with a clevis at the top
- Hook with a clevis swivel eye at the top

Hook designs:
- Self-locking hook
- Compact self-locking hook
- Sling hook
- Grab hook
- Foundry hook
- Excavator hook
- Pipe line hook

Clevis fittings for hoist chains:
- Specific load pins designed for $^{3}/_{16}$ inch, $^{9}/_{32}$ inch and $^{11}/_{32}$ inch hoist chains available on request.
- Specific load pins can be mounted only on Green Pin chain fittings: CO omega links, MP pear shape links, Green Pin® clevis sling hooks and Green Pin® clevis self locking hooks.
- WLL of the fitting must be decreased according to the hoist chain WLL. Please refer to the WLL indicated by the hoist chain manufacturer. The lowest WLL has to be considered.
- These specific load pins must be exclusively used with a hoist chain.

Self locking hooks GK vs XL:
- The GK hook is more compact/smaller than the self locking XL hook at the equivalent chain diameter.
- The GK hook is lighter than the XL hook at the equivalent chain diameter.

Chain slings can be shortened by using a grab hook or a shortening clutch.

Grade 80 lifting sling fittings are generally marked with:
- manufacturer's symbol - e.g. GP
- size in mm and inch - e.g. 13 and $^{1}/_{2}$"
- traceability code - e.g. HA
- steel grade - e.g. 8
- item code (specific products) - e.g. MJ
- origin (specific products) - e.g. France
- DGUV certified (specific products) - e.g. H94

As prescribed by the Machinery Directive 2006/42/EC our hooks, master links and connecting links are supplied with a CE Declaration of Incorporation (CE IIB), stating the products are in compliance with the requirements of the machinery directive. These products do not have a CE marking, since CE markings are only to be provided for machines, whereas hooks, master links and connecting links are components of machines, and not machines themselves. Providing components with a CE marking is an incorrect interpretation of the Machinery Directive.

Machinery definition according to Machinery Directive 2006/42/EC – Article 2 – definitions (a) and Machinery Regulation 2023/1230/EU:

"An assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort."

"The maximum working load shall be prominently marked on the lifting machinery. The marking shall be legible, indelible and in an un-coded form. Where the maximum working load depends on the configuration of the lifting machinery, each operating position shall be provided with a load plate indicating, preferably in diagrammatic form or by means of tables, the working load permitted for each configuration."

This definition means that a sling is a Machine and that the hooks, master links and connecting links are not considered as a machine themselves, but as components of a machine. The CE and the WLL markings in consequence, are mandatory only on the assembled sling tag as the sling is the machine according to MD 2006/42/EC. This rule is still valid with the new Machine Regulation 2023/1230 which will replace the MD cited previously within early 2027.

Finish

All grade 80 lifting sling fittings are painted. Grade 80 lifting sling fittings under the Green Pin® brand will be painted white.

Some products are mentioned as painted white*, but could be for some sizes delivered with a yellow or red finish. The P-6714A, P-6703A and P-6731 hooks are painted red.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements with Green Pin® at the time of order.

Instructions for use

Grade 80 lifting sling fittings, should be inspected before use to ensure that:
- all markings are legible.
- all lifting sling fittings of the complete sling are made of the same steel grade 80.
- a lifting sling fitting with the correct WLL has been selected with respect to the sling design. For further details, refer to the EN 818-4 and ASME B30.9 standard for Chain Slings.
- the pin, bolt, nut, bush or any other locking system cannot move, or vibrate out of position.
- lifting sling fittings are free from nicks, gouges, and cracks.
- lifting sling fittings are not heat treated, modified, repaired or reshaped by machining or bent. (This may affect their Working Load Limit).
- lifting sling fittings items are not distorted or unduly worn. (Maximum allowable wear is 10 % of the original diameter)
- the latch of the hook(s) is present and functional.
- the hook is never side-, tip- or back- loaded.
- the hook is supporting the load correctly.
- the latch should not be supporting any load.
- only use the lifting sling fittings for in-line lifting.

Grade 80 lifting sling fittings must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use), and more frequently when the links are used in severe operating conditions.

Testing

Generally load rated products are proof load and/or MPI tested.
For specific information on certificates we refer to the separate paragraph on certification.

Green Pin® grade 80 lifting sling fittings are proof load tested at the following loads:

for chain diameter	Working Load Limit (WLL)	Proofload (PL)
inch	metric t	metric t
7/32	1.12	2.8
1/4	1.57	3.93
5/16	2	5
3/8	3.2	8
1/2	5.4	13.5
5/8	8.2	20.5
3/4	12.8	32
7/8	15.5	38.75
1	21.6	54
1 1/4	32.8	82

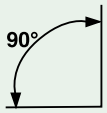
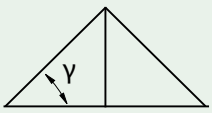
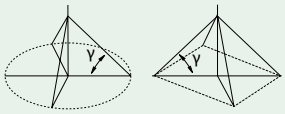
Temperature

If extreme temperature situations occur, the following load reductions must be taken into account:

Temperature °Celsius	Temperature °Fahrenheit	Reduction for elevated temperatures New Working Load Limit
-40 °C up to 200 °C	-40 °F up to 392 °F	100 % of original WLL
200 - 300 °C	392 - 572 °F	90 % of original WLL
300 - 400 °C	572 - 752 °F	75 % of original WLL
> 400 °C	> 752 °F	not allowed

Note: P-6714A, P-6703A and P-6731 temperature range -4 °F up to +392 °F cannot be used above +392 °F.

Working load limit table for grade 80 chain slings (US)

Chain Ø								
	1 leg sling	2 leg sling			3 or 4 leg sling			Endless Sling
	90°	90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	
		Safety factor 1.73	Safety factor 1.4	Safety factor 1.0	Safety factor 2.6	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
inch	t	t	t	t	t	t	t	t
7/32	0.95	1.64	1.36	0.95	2.47	2.00	1.43	1.52
9/32	1.50	2.60	2.12	1.50	3.90	3.15	2.24	2.50
5/16	2.00	3.46	2.80	2.00	5.20	4.25	3.00	3.15
3/8	3.20	5.54	4.48	3.20	8.32	6.72	4.80	5.12
1/2	5.40	9.34	7.56	5.40	14.04	11.34	8.10	8.64
5/8	8.20	14.19	11.48	8.20	21.32	17.22	12.30	13.12
3/4	12.80	22.14	17.92	12.80	33.28	26.88	19.20	20.48
7/8	15.50	26.82	21.70	15.50	40.30	32.55	23.25	24.80
1	21.60	37.37	30.24	21.60	56.16	45.36	32.40	34.56
1 1/4	32.80	56.74	45.92	32.80	85.28	68.88	49.20	52.48

When using multi leg slings make sure that the angles between the lifting points and sling legs are within the range marked on the sling. The horizontal angle, which is the angle between the sling leg and the horizontal, should never be smaller than 30°.

Symmetry of loading

The WLL values mentioned are based on symmetrical loading of the sling. This means that when the load is lifted, the sling legs are symmetrically distributed in the plane and all legs of the sling have the same angle to the vertical. For more details on chain slings refer to ASME B30.9.

The loading can be assumed to be symmetric if all the following conditions are met:

- the load is less than 80 % of marked WLL, and
- sling leg angles to the horizontal are all less then 75° and
- sling leg angles to the vertical are all within 15° to each other, and
- in the case of three- and four-leg slings, the plane angles are within 15° of each other.

If one of the above parameters is not met, the loading should be considered to be asymmetric, and the lift should be referred to a competent engineer to establish the safe rating for the sling. Alternatively, in the case of asymmetric loading, the sling should be derated to half the marked WLL. If the load tends to tilt during the lift, it should be lowered, and the attachments changed by repositioning the attachment points or by using compatible shortening devices. The safety factor of 4 on the individual components is designed for safety only. Never exceed the indicated WLL.

Use the below reduction table if a multi leg sling is not used for the purpose for which it has been designed, for example for a lifting operation with fewer legs than the number of legs of the sling:

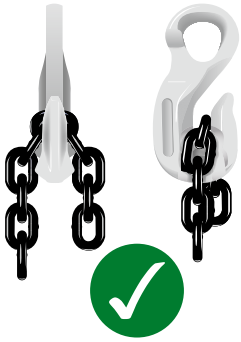
Types of chain sling	Number of legs used	Factor to apply to marked WLL
Two-leg	1	1/2
Three- and four-leg	2	2/3
Three- and four-leg	1	1/3

Examples of do's and don'ts

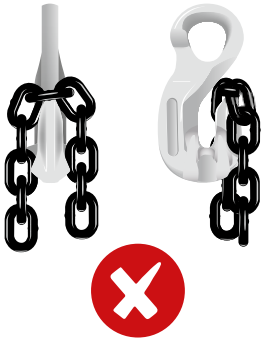
A hook cannot be used as a clamp.

Don't use hooks without latch, as an exception is the foundry hook.

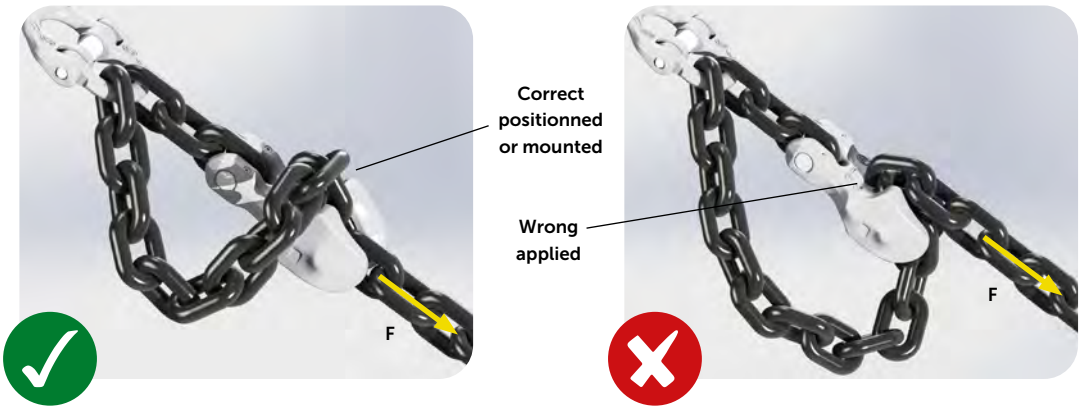
Hook body and latch may not be bent. This is a sign the hook is overloaded.



Position the chain properly in the throat.



Do not tip load hooks.



Load (F) bearing chain always needs to be at the bottom of the shortening clutch.

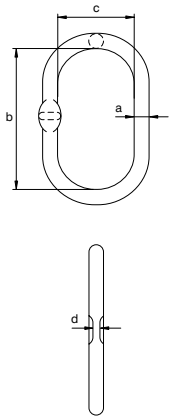
Green Pin® Master Link EN 1677-4 GR8

Grade 80 master link EN 1677-4

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-4, ASTM A952/952M and ASME B30.9
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 50 t without flat part

MS



diameter	diameter chain 1 leg	diameter chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a		90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	metric	b	c	d	
inch	inch	inch	inch	inch	t	inch	inch	inch	lbs
1/2	7/32 - 1/4	-	7/32	7/32 - 1/4	1.6	4 17/32	2 3/8	9/32	0.88
5/8	5/16	7/32 - 1/4	1/4 - 5/16	5/16	3.2	4 23/32	2 3/4	9/32	1.32
23/32	3/8	5/16	3/8	3/8	4.5	5 5/16	2 15/16	11/32	1.85
25/32	1/2	3/8	-	1/2	6.2	5 29/32	3 7/32	7/16	2.43
7/8	5/8	-	1/2	5/8	8.2	6 11/16	3 17/32	9/16	3.53
31/32	3/4	1/2	-	3/4	10.6	7 15/32	4 1/16	9/16	5.07
1 3/32	3/4	-	5/8	3/4	12.8	8 7/32	4 23/32	21/32	6.83
1 3/16	3/4 - 7/8	5/8	3/4	3/4 - 7/8	15.5	9 1/4	4 29/32	21/32	8.82
1 13/32	-	3/4	3/4	-	20	10 5/8	5 23/32	7/8	14.55
1 1/2	1	3/4	7/8	1	25	9 27/32	5 29/32	7/8	15.65
1 25/32	1 1/4	1	1	1 1/4	37	11 13/16	7 7/8	7/8	26.7
1 31/32	-	-	1 1/4	-	50	14 31/32	7 7/8	-	39.7
2 5/32	-	1 1/4	-	-	63	14 3/16	7 7/8	-	46.3
2 3/4	-	-	-	-	100	19 11/16	9 27/32	-	97
3 5/32	-	-	-	-	125	19 13/16	11 1/32	-	134

CAD INFO

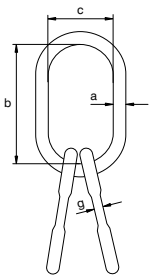
* could be delivered with a yellow or red finish

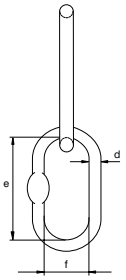
Green Pin® Master Link Assembly EN 1677-4 GR8

Grade 80 master link assembly EN 1677-4

Scan for additional product details

MTS





- **Material:** alloy steel. grade 80. quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-4. ASTM A952/952M and ASME B30.9
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 60 t without flat part

diameter	diameter chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
5/8	-	7/32	7/32 - 1/4	2.5	4 23/32	2 3/4	1/2	4 17/32	2 3/8	9/32	2.65
23/32	7/32	7/32 - 1/4	5/16	3.5	5 5/16	2 15/16	5/8	4 23/32	2 3/4	9/32	6.83
7/8	1/4 - 5/16	5/16	3/8	6.5	6 11/16	3 17/32	23/32	5 5/16	2 15/16	11/32	7.28
31/32	3/8	3/8	1/2	8.5	7 15/32	4 1/16	25/32	5 29/32	3 7/32	7/16	9.92
1 3/32	-	-	-	10	8 7/32	4 23/32	25/32	5 29/32	3 7/32	7/16	11.9
1 3/16	-	1/2	5/8	13	9 1/4	4 29/32	7/8	6 11/16	3 17/32	9/16	15.87
1 13/32	1/2	5/8	3/4	17	10 5/8	5 23/32	31/32	7 15/32	4 1/16	9/16	24.7
1 1/2	-	-	3/4	20.8	9 27/32	5 29/32	1 3/32	8 7/32	4 23/32	21/32	29.3
1 25/32	5/8 - 3/4	3/4	7/8	30	11 13/16	7 7/8	1 13/32	10 5/8	5 23/32	7/8	56
1 31/32	3/4 - 7/8	7/8	1	40	14 31/32	7 7/8	1 1/2	9 27/32	5 29/32	7/8	71
2 5/32	-	1	1 1/4	50	14 3/16	7 7/8	1 1/2	9 27/32	5 29/32	7/8	78
2 3/8	1	-	-	60	16 15/16	8 21/32	1 25/32	11 13/16	7 7/8	1 25/32	119
2 3/4	-	1 1/4	-	80	19 11/16	9 27/32	2 5/32	14 3/16	7 7/8	2 5/32	190
3 5/32	1 1/4	-	-	100	19 13/16	9 27/32	2 5/32	14 3/16	7 7/8	2 5/32	227

CAD INFO

* could be delivered with a yellow or red finish

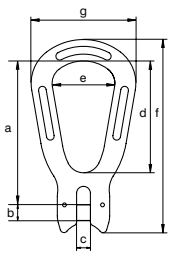
Green Pin® Pear Shaped Link EN 1677-4 GR8

Grade 80 pear shaped link EN 1677-4

Scan for additional product details

MP

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pins available for $^{3}/_{16}$ inch, $^{9}/_{32}$ inch and $^{11}/_{32}$ inch hoist chain on request, which can be combined with respectively GPMP6, GPMP7/8, GPMP10



for chain diameter	working load limit	length	diameter pin	width	length inside	width inside	length	width outside	weight each
	metric	a	b	c	d	e	f	g	
inch	t	inch	inch	inch	inch	inch	inch	inch	lbs
$^{7}/_{32}$	1.12	3 $^{5}/_{16}$	$^{5}/_{16}$	$^{9}/_{32}$	2 $^{17}/_{32}$	1 $^{5}/_{16}$	4 $^{9}/_{32}$	2 $^{5}/_{32}$	0.31
$^{1}/_{4}$ - $^{5}/_{16}$	2	3 $^{31}/_{32}$	$^{11}/_{32}$	$^{11}/_{32}$	3 $^{1}/_{32}$	1 $^{9}/_{16}$	5 $^{3}/_{16}$	2 $^{23}/_{32}$	0.77
$^{3}/_{8}$	3.2	4 $^{29}/_{32}$	$^{1}/_{2}$	$^{15}/_{32}$	3 $^{13}/_{16}$	1 $^{31}/_{32}$	6 $^{1}/_{2}$	3 $^{5}/_{16}$	1.68
$^{1}/_{2}$	5.4	6 $^{11}/_{32}$	$^{5}/_{8}$	$^{19}/_{32}$	4 $^{29}/_{32}$	2 $^{19}/_{32}$	8 $^{3}/_{8}$	4 $^{11}/_{32}$	3.55
$^{5}/_{8}$	8.2	7 $^{25}/_{32}$	$^{25}/_{32}$	$^{3}/_{4}$	6 $^{1}/_{16}$	3 $^{5}/_{16}$	10 $^{5}/_{16}$	5 $^{1}/_{2}$	6.72
$^{3}/_{4}$	12.8	9 $^{31}/_{32}$	$^{15}/_{16}$	$^{29}/_{32}$	7 $^{25}/_{32}$	4 $^{3}/_{32}$	13 $^{1}/_{32}$	6 $^{17}/_{32}$	9.44

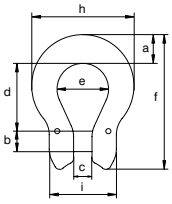
CAD INFO

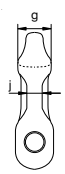
Green Pin® Omega Link EN 1677-1 GR8

Grade 80 omega link EN 1677-1

CO

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pins available for $^{3}/_{16}$ inch, $^{9}/_{32}$ inch and $^{11}/_{32}$ inch hoist chain on request, which can be combined with respectively GPCO6, GPCO7/8, GPCO10





for chain diameter	working load limit	width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	thickness	weight each
	metric	a	b	c	d	e	f	g	h	i	j	
inch	t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
$^{7}/_{32}$	1.12	$^{9}/_{16}$	$^{5}/_{16}$	$^{9}/_{32}$	$^{31}/_{32}$	$^{25}/_{32}$	2 $^{3}/_{32}$	$^{1}/_{2}$	1 $^{5}/_{8}$	1 $^{3}/_{32}$	$^{1}/_{4}$	0.15
$^{1}/_{4}$ - $^{5}/_{16}$	2	$^{25}/_{32}$	$^{11}/_{32}$	$^{11}/_{32}$	1 $^{11}/_{32}$	$^{15}/_{16}$	2 $^{25}/_{32}$	$^{5}/_{8}$	2 $^{5}/_{32}$	1 $^{1}/_{4}$	$^{11}/_{32}$	0.44
$^{3}/_{8}$	3.2	$^{3}/_{4}$	$^{1}/_{2}$	$^{15}/_{32}$	1 $^{9}/_{16}$	1 $^{7}/_{32}$	3 $^{7}/_{32}$	$^{21}/_{32}$	2 $^{15}/_{32}$	1 $^{21}/_{32}$	$^{7}/_{16}$	0.62
$^{1}/_{2}$	5.4	$^{31}/_{32}$	$^{5}/_{8}$	$^{19}/_{32}$	2	1 $^{9}/_{16}$	4 $^{3}/_{16}$	$^{25}/_{32}$	3 $^{5}/_{16}$	2 $^{1}/_{8}$	$^{9}/_{16}$	1.41
$^{5}/_{8}$	8.2	1 $^{1}/_{4}$	$^{25}/_{32}$	$^{3}/_{4}$	2 $^{17}/_{32}$	1 $^{7}/_{8}$	5 $^{3}/_{16}$	$^{31}/_{32}$	4 $^{3}/_{32}$	2 $^{11}/_{16}$	$^{21}/_{32}$	2.82
$^{3}/_{4}$	12.8	1 $^{1}/_{2}$	$^{15}/_{16}$	$^{29}/_{32}$	3 $^{5}/_{32}$	2 $^{5}/_{16}$	6 $^{13}/_{32}$	1 $^{3}/_{16}$	4 $^{31}/_{32}$	3 $^{7}/_{32}$	$^{7}/_{8}$	4.96

CAD INFO

* could be delivered with a yellow or red finish

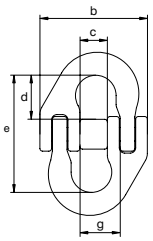
Scan for additional product details

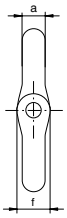
Green Pin® Connecting Link EN 1677-1 GR8

Grade 80 connecting link EN 1677-1

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

MJ





for chain diameter	working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
7/32	1.12	5/16	1 21/32	7/16	25/32	2 1/16	7/16	19/32	0.2
1/4 - 5/16	2	11/32	2 3/32	9/16	25/32	2 5/32	1/2	3/4	0.33
3/8	3.2	13/32	2 19/32	23/32	29/32	2 17/32	23/32	29/32	0.62
1/2	5.4	9/16	3 9/32	13/16	1 1/4	3 11/32	15/16	1 3/32	1.41
5/8	8.2	21/32	4 1/16	31/32	1 9/16	4 1/8	1 3/32	1 11/32	2.56
3/4	12.8	13/16	4 23/32	1 5/16	1 31/32	5 3/32	1 5/16	1 21/32	4.3
7/8	15.5	29/32	5 5/8	1 9/16	2 5/32	5 1/2	1 15/32	2	6.48
1	21.6	1 1/32	6 21/32	1 25/32	2 3/8	6 1/32	1 13/16	2 1/4	9.08
1 1/4	32.8	1 17/32	7 3/4	2 1/16	2 11/16	6 27/32	2 7/32	2 5/8	18.3

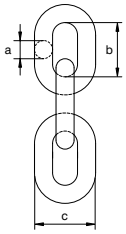
CAD INFO

Green Pin® Lifting Chain EN818-2 GR8

Grade 80 lifting chain

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 818-2
- **Finish:** painted black
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

CHAIN



diameter	working load limit	length inside	width outside	links per foot	length per drum	weight per meter
a inch	metric t	b inch	c inch		Ft	lbs
7/32	1.12	7/8	25/32	16.93	1968	1.72
1/4	1.5	13/16	1 1/32	14.51	1640	2.51
5/16	2	15/16	1 3/16	12.70	1148	3.31
3/8	3.15	1 3/16	1 13/32	10.16	820	5
1/2	5.3	1 17/32	1 27/32	7.82	492	8.25
5/8	8	1 7/8	2 9/32	6.35	328	12.21
3/4	12.5	2 3/8	2 27/32	5.08	197	19.71
7/8	15	2 19/32	3 1/8	4.62	164	25.6
1	21.2	3 1/16	3 21/32	3.91	98	33.7
1 1/4	31.5	3 25/32	4 13/32	3.18	164	49.8

CAD

* could be delivered with a yellow or red finish

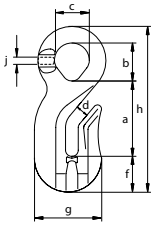
Scan for additional product details

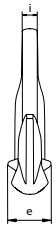
Green Pin® Grab Hook E EN 1677-1 GR8

Grade 80 eye grab hook EN 1677-1

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 ** MTC [a] MPI [b] ** DGUV ** CE IIB
- **Article code:** scan QR code to see article codes

CRO





for chain diameter	working load limit	length	inside length eye	inside width eye	opening	thickness	width	width outside	length outside	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	1.12	1 5/8	15/16	29/32	5/16	15/16	25/32	1 21/32	3 11/16	11/32	1/4	0.53
1/4 - 5/16	2	2 3/32	1 1/16	1 1/16	13/32	1 5/16	29/32	2 3/32	4 17/32	13/32	5/16	0.73
3/8	3.2	2 5/8	1 1/2	1 13/32	15/32	1 21/32	1 17/32	2 19/32	6 7/32	9/16	13/32	2.01
1/2	5.4	3 5/16	1 21/32	1 21/32	19/32	2 7/32	1 9/16	3 7/16	7 5/16	5/8	15/32	4.45
5/8	8.2	4 3/32	2 3/32	2 1/16	3/4	2 9/16	2 9/32	4 3/16	9 9/32	21/32	5/8	5.49
3/4	12.8	5 1/8	1 15/32	1 15/32	7/8	2 15/16	1 7/8	5 1/32	9 1/2	1 1/32	1 1/32	13.85
7/8	15.5	4 23/32	1 23/32	1 23/32	31/32	3 1/32	2 1/4	5 3/16	9 23/32	1 1/32	1 1/32	13.43
1 ***	21.6	6 7/32	1 13/16	1 13/16	1 3/16	3 15/16	3 7/32	6 31/32	12 19/32	1 1/4	1 1/4	32.4
1 1/4 - 1 3/8 ***	32.8	8 9/32	2 1/4	2 1/4	1 1/2	3 19/32	3 15/32	8 15/32	15 9/16	1 17/32	1 17/32	39.7

** Excluding sizes 3/4 inch, 7/8 inch, 1 inch and 1 1/4 inch
*** Different design

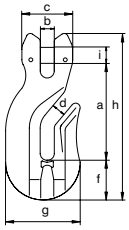
CAD

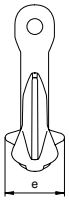
Green Pin® Grab Hook CL EN 1677-1 GR8

Grade 80 clevis grab hook EN 1677-1

- **Material:** alloy steel. grade 80. quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

CRC





for chain diameter	working load limit	length	width	width outside	opening	thickness	width	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	1.12	2 1/16	9/32	1 3/32	5/16	15/16	3/4	1 21/32	3 11/32	5/16	0.51
1/4 - 5/16	2	2 17/32	11/32	1 5/16	13/32	1 5/16	29/32	2 3/32	4 1/16	11/32	0.99
3/8	3.2	3 1/2	7/16	1 21/32	15/32	1 21/32	1 17/32	2 19/32	5 15/16	1/2	2.31
1/2	5.4	4 1/16	19/32	2 1/8	19/32	2 7/32	1 9/16	3 1/16	6 13/16	5/8	4.52
5/8	8.2	4 23/32	23/32	2 5/8	3/4	2 9/16	2 9/32	4 3/16	8 7/16	25/32	6.68

CAD INFO

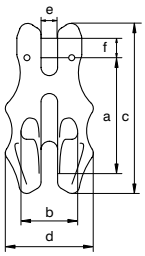
* could be delivered with a yellow or red finish

Scan for additional product details

Green Pin® Shortening Clutch EN 1677-1 GR8

Grade 80 shortening clutch EN 1677-1

GC



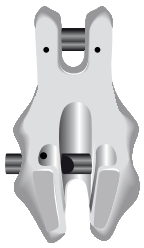
- **Material:** alloy steel. grade 80. quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-1. DIN 5692 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
7/32	1.12	2 1/16	29/32	2 15/16	1 21/32	9/32	5/16	0.51
1/4 - 5/16	2	2 5/8	1 3/16	3 11/16	1 31/32	11/32	11/32	0.97
3/8	3.2	3 9/32	1 1/2	4 9/16	2 15/32	7/16	1/2	1.92
1/2	5.4	4 3/32	1 15/16	5 7/8	3 1/8	9/16	5/8	3.88
5/8	8.2	5	2 3/8	7 1/4	3 29/32	23/32	25/32	7.05
3/4	12.8	6 1/16	2 15/16	8 15/32	4 7/8	7/8	15/16	12.74

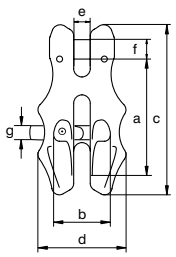
CAD INFO

Green Pin® Shortening Clutch with Lock EN 1677-1 GR8

Grade 80 shortening clutch with locking pin EN 1677-1



GCV



- **Material:** alloy steel. grade 80. quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-1. DIN 5692 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
7/32	1.12	2 1/16	29/32	2 15/16	1 21/32	9/32	5/16	9/32	0.55
5/16	2	2 5/8	1 3/16	3 11/16	1 31/32	11/32	11/32	5/16	0.99
3/8	3.2	3 9/32	1 1/2	4 9/16	2 15/32	7/16	1/2	15/32	1.92
1/2	5.4	4 3/32	1 15/16	5 7/8	3 1/8	9/16	5/8	5/8	3.84
5/8	8.2	5	2 3/8	7 1/4	3 29/32	23/32	25/32	25/32	6.83
3/4	12.8	6 1/16	2 15/16	8 15/32	4 7/8	7/8	15/16	25/32	12.61

CAD INFO

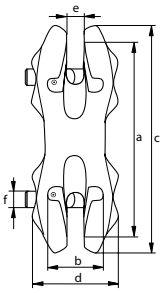
* could be delivered with a yellow or red finish

Scan for additional product details

Green Pin® Shortening Clutch with Double Lock EN 1677-1 GR8

Grade 80 shortening clutch with double locking pin EN 1677-1

GDV



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-1, DIN 5692 and ASTM A952/A952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIA
- **Article code:** scan QR code to see article codes

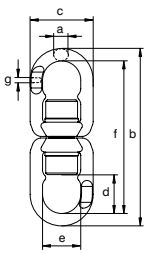
for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
7/32	1.12	3 29/32	29/32	4 23/32	1 21/32	9/32	9/32	1.08
5/16	2	4 13/32	1 3/16	5 1/2	1 31/32	11/32	5/16	1.7
1/2	5.4	7	1 15/16	8 3/16	3 1/8	19/32	5/8	6.28

CAD | INFO

Green Pin® Needle Bearing Swivel EE GR8

Grade 80 needle bearing eye-eye swivel

ELR



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with two thrust needle roller bearings to enable rotation under load

for chain diameter	working load limit	diameter	length outside	width outside	length inside	width inside	length	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
3/16 - 7/32	1.12	15/32	5 7/8	2 7/32	1 5/16	1 1/4	4 31/32	1/4	1.34
1/4 - 5/16	2	9/16	7 1/8	2 9/16	1 9/16	1 15/32	6 1/32	5/16	2.36
3/8	3.2	5/8	8 29/32	3 1/8	1 7/8	1 7/8	7 11/16	7/16	4.19
1/2	5.4	25/32	10 9/16	3 25/32	2 3/8	2 9/32	8 15/16	9/16	6.99
5/8	8.2	31/32	12 15/16	4 3/4	2 5/8	2 7/8	10 31/32	21/32	14.2
3/4	12.8	31/32	14 7/8	5 3/16	3 15/32	3 7/32	12 29/32	7/8	17.09

CAD

* could be delivered with a yellow or red finish

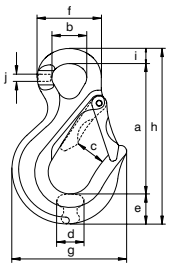
Scan for additional product details

Green Pin® Sling Hook E EN 1677-2 GR8

Grade 80 eye sling hook EN 1677-2

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 * | MTC [a] | MPI [b] * | DGUV * | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 8.2 t without flat part

CSO



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	diameter eye outside	width outside	length outside	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	3 3/8	29/32	1 1/32	19/32	3/4	1 11/16	2 27/32	4 1/2	13/32	1/4	0.62
1/4 - 5/16	2	4 1/16	1 1/32	1 3/16	25/32	15/16	2	3 7/16	5 15/32	15/32	5/16	1.23
3/8	3.2	5 3/32	1 13/32	1 5/16	15/16	1 3/32	2 9/16	4 3/16	6 23/32	19/32	13/32	2.4
1/2	5.4	5 31/32	1 5/8	1 15/32	1 1/4	1 17/32	3 1/32	5 1/4	8 7/32	23/32	15/32	4.37
5/8	8.2	7 17/32	2 1/16	1 11/16	1 9/16	1 11/16	3 11/16	6 1/2	10 1/32	13/16	21/32	7.83
3/4	12.8	9 11/32	2 13/32	2 13/32	1 15/16	2 13/32	4 17/32	8 3/16	12 27/32	1 3/32	13/16	15.65
7/8	15.5	11 1/32	2 27/32	2 15/16	2 1/8	2 17/32	5 3/16	9 17/32	14 3/4	1 3/16	29/32	21.8
1 **	21.6	9 7/8	1 7/8	2 7/8	2 5/32	3 3/8	4 3/8	9 9/32	14 9/32	1 1/4	1 1/4	29.3
1 1/4 **	32.8	11 1/2	2 9/32	3 7/16	2 5/8	4 3/32	5 15/32	11 1/4	17 1/8	1 17/32	1 17/32	47.6

* Excluding sizes 1 inch and 1 1/4 inch
** Different design

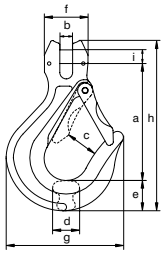
CAD | INFO

Green Pin® Sling Hook CL EN 1677-2 GR8

Grade 80 clevis sling hook EN 1677-2

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pins available for 3/16 inch, 9/32 inch and 11/32 inch hoist chain on request, which can be combined with respectively GPCSC6, GPCSC7/8, GPCSC10

CSC



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	1.12	2 29/32	9/32	1 1/32	19/32	25/32	1 3/32	2 27/32	4 1/4	5/16	0.64
1/4 - 5/16	2	3 3/4	11/32	1 3/16	25/32	15/16	1 1/4	3 7/16	5 11/32	11/32	1.28
3/8	3.2	4 7/16	15/32	1 5/16	15/16	1 5/32	1 21/32	4 3/16	6 15/32	1/2	2.38
1/2	5.4	5 15/32	19/32	1 15/32	1 1/4	1 17/32	2 1/8	5 1/4	8 3/16	5/8	4.67
5/8	8.2	6 3/8	3/4	1 23/32	1 9/16	1 23/32	2 11/16	6 1/2	9 7/16	25/32	8.09
3/4	12.8	7 27/32	29/32	2 13/32	1 15/16	2 7/16	3 7/32	8 3/16	12	15/16	16.14
7/8	15.5	9 13/32	31/32	2 15/16	2 1/8	2 9/16	3 13/16	9 17/32	13 25/32	1 3/32	23.6

CAD | INFO

* could be delivered with a yellow or red finish

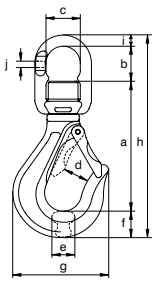
Scan for additional product details

Green Pin® Sling Hook SE EN 1677-2 GR8

Grade 80 swivel sling hook EN 1677-2

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearing to enable rotation under load

CSE



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length outside	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	3 15/16	1 5/16	1 1/4	1 1/32	19/32	25/32	2 27/32	6 15/32	15/32	1/4	1.19
1/4 - 5/16	2	4 31/32	1 9/16	1 15/32	1 3/16	25/32	31/32	3 7/16	8 1/32	9/16	5/16	2.2
3/8	3.2	6 7/32	1 27/32	1 7/8	1 5/16	15/16	1 5/32	4 3/16	9 27/32	5/8	7/16	4.19
1/2	5.4	7 7/16	2 5/16	2 9/32	1 15/32	1 1/4	1 17/32	5 1/4	12 1/8	13/16	9/16	7.5
5/8	8.2	8 11/16	2 5/8	2 7/8	1 23/32	1 9/16	1 23/32	6 1/2	14 1/32	31/32	21/32	14
3/4	12.8	10 11/32	3 7/16	3 7/32	2 13/32	1 15/16	2 7/16	8 7/32	17 7/32	31/32	13/16	22.9

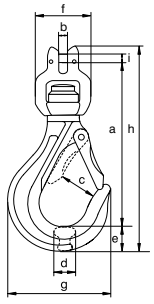
CAD INFO

Green Pin® Sling Hook SCL EN 1677-2 GR8

Grade 80 swivel sling hook with clevis EN 1677-2

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pins available for 3/16 inch, 9/32 inch and 11/32 inch hoist chain on request, which can be combined with respectively GPCSECA6, GPCSECA7/8, GPCSECA10 equipped with thrust needle roller bearing to enable rotation under load

CSECA



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	1.12	4 31/32	9/32	1 1/32	19/32	25/32	2 7/32	2 27/32	6 1/4	5/16	1.23
1/4 - 5/16	2	6 1/16	11/32	1 3/16	25/32	31/32	2 9/16	3 7/16	7 23/32	11/32	2.18
3/8	3.2	7 15/32	15/32	1 5/16	15/16	1 5/32	3 1/8	4 3/16	9 7/16	1/2	4.3
1/2	5.4	8 13/16	9/16	1 15/32	1 1/4	1 17/32	3 25/32	5 1/4	11 17/32	5/8	7.8
5/8	8.2	10 5/8	23/32	1 23/32	1 9/16	1 23/32	4 3/4	6 1/2	13 25/32	25/32	14.57

CAD INFO

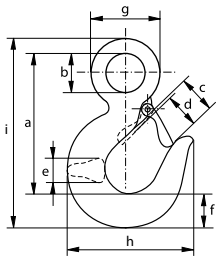
* could be delivered with a yellow or red finish

Green Pin® Hook E GR8

Grade 80 large eye hook with safety latch

Scan for additional product details

P-6714A



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** generally to EN 1677-2
- **Finish:** painted red
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

working load limit	length	diameter eye inside	opening hook	opening hook	thickness	width	diameter eye outside	width outside	length outside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
1.25	3 3/16	3/4	15/16	25/32	5/8	3/4	1 15/32	2 3/4	4 9/32	0.66
1.6	3 19/32	29/32	1 1/32	7/8	23/32	7/8	1 13/16	3 1/8	4 7/8	0.97
2.5	4 1/8	1 1/16	1 1/4	1 1/16	25/32	1 1/16	2 1/16	3 21/32	5 23/32	1.39
3.2	4 7/8	1 1/4	1 11/32	1 3/16	15/16	1 3/16	2 7/16	4 9/32	6 21/32	2.38
5.4	5 25/32	1 17/32	1 23/32	1 15/32	1 7/32	1 13/32	2 29/32	5	7 29/32	3.44
8.2	7 15/32	1 31/32	2 5/32	1 7/8	1 15/32	1 7/8	3 25/32	6 5/8	10 9/32	8.71
12.8	9 1/16	2 17/32	2 17/32	2 3/32	1 7/8	2 13/32	4 31/32	7 25/32	12 11/16	17.09
16	10	2 25/32	2 3/4	2 3/8	2 9/32	2 23/32	5 15/32	8 25/32	14 1/16	23.8
22	12 7/16	3 1/2	3 19/32	3 1/32	2 15/32	3 3/16	6 21/32	11 5/32	17 7/32	37.3

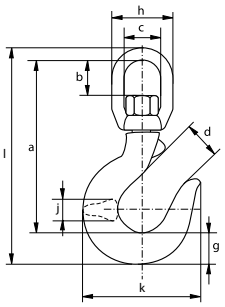
CAD

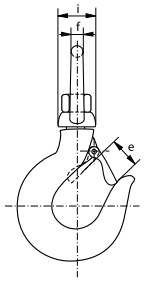
Green Pin® Hook SE GR8

Grade 80 swivel eye hook with safety latch

Scan for additional product details

P-6703A





- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted red
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

working load limit	length	length inside	width inside	opening hook	opening hook	diameter	width	width	width	thickness	width outside	lenght outside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	lbs
1.25	4 21/32	1 3/32	1 7/32	15/16	25/32	7/16	3/4	2 3/32	1 3/16	5/8	2 3/4	5 25/32	1.08
1.6	5 23/32	1 3/8	1 9/16	1 1/32	7/8	9/16	7/8	2 11/16	1 15/32	23/32	3 1/8	7 1/8	2.09
2.5	6 9/16	1 11/16	1 27/32	1 1/4	1 1/16	21/32	1 1/16	3 3/16	1 11/16	25/32	3 21/32	8 9/32	3.26
3.2	7 3/32	1 27/32	1 27/32	1 11/32	1 3/16	21/32	1 7/32	3 3/16	1 11/16	15/16	4 9/32	8 31/32	3.92
5.4	8 17/32	2 1/8	2 17/32	1 23/32	1 15/32	13/16	1 13/32	4 3/16	2 17/32	1 7/32	5	10 13/16	8.16
8.2	10 13/16	2 23/32	3 1/16	2 5/32	1 25/32	1 1/32	1 7/8	5 1/8	3 1/32	1 15/32	6 5/8	13 3/4	16.23
11.5	12 7/32	2 11/16	3 7/32	2 9/32	2 3/32	7/8	2 3/8	5 29/32	3 7/32	1 11/16	7 25/32	15 21/32	21.4
16	13 27/32	3 5/16	3 5/8	2 19/32	2 9/32	15/16	2 5/8	6 1/16	3 5/8	2 1/16	8 3/4	17 25/32	32.8
22	17 3/32	4 7/32	4 17/32	3 7/16	3 1/16	1 5/32	3 5/32	7 17/32	4 1/4	2 17/32	11 5/32	21 23/32	57
31.5	20 5/32	4 19/32	5 3/16	3 13/16	3 7/16	1 11/32	3 11/16	8 3/4	5 3/16	3 5/32	13 11/32	25 25/32	101

CAD

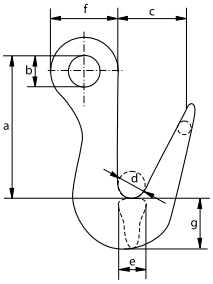
Green Pin® Pipe Line Hook

Hook for handling cylindrical objects (pipes, tubes)

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

P-6731



working load limit at hook		length	diameter eye inside	opening hook	diameter	thickness	diameter eye outside	width	weight each
top metric t	bottom metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
2	7.5	6 9/16	1 3/8	2 29/32	1 3/16	1 7/32	2 7/8	2 3/8	6.48

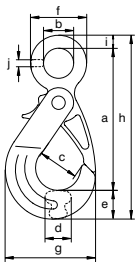
CAD

Scan for additional product details

Green Pin® Self Locking Hook E EN 1677-3 GR8

Grade 80 eye self locking hook EN 1677-3

XLO



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 12.8 t without flat part

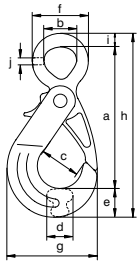
for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	4 7/16	15/16	1 1/4	5/8	15/16	1 27/32	2 15/16	5 13/16	7/16	1/4	1.12
1/4 - 5/16	2	5 11/32	1 3/16	1 11/16	15/16	1 3/32	2 1/4	3 19/32	7	9/16	5/16	2.01
3/8	3.2	6 5/8	1 13/32	1 7/8	1 1/4	1 11/32	2 11/16	4 3/8	8 19/32	5/8	13/32	3.95
1/2	5.4	7 29/32	1 27/32	2 15/32	1 15/32	1 11/16	3 7/16	5 9/16	10 13/32	25/32	1/2	7.41
5/8	8.2	9 7/8	2 3/8	2 15/16	1 11/16	2 7/32	4 3/8	7 5/32	13 1/16	1 1/32	5/8	15.43
3/4	12.8	11 5/32	2 3/4	3 17/32	2 1/16	2 7/16	4 31/32	8	14 11/16	1 3/32	13/16	20.3

CAD | INFO

Green Pin® Self Locking Hook E GR8

Grade 80 eye self locking hook

GKO



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | MTC [a] | MPI [b] | CE IIB
- **Article code:** scan QR code to see article codes

for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
1/4 - 5/16	2	4 13/32	1 1/32	1 1/4	21/32	15/16	1 7/8	2 15/16	5 25/32	7/16	11/32	1.17
3/8	3.2	5 11/32	1 7/32	1 23/32	15/16	1 3/32	2 3/8	3 19/32	7 1/16	19/32	13/32	2.12
1/2	5.4	6 27/32	1 9/16	1 7/8	1 1/4	1 5/16	3	4 3/8	8 29/32	23/32	15/32	4.1
5/8	8.2	8 7/32	1 31/32	2 15/32	1 15/32	1 21/32	3 21/32	5 9/16	10 3/4	7/8	5/8	7.69
3/4	12.8	10	2 13/32	2 15/16	1 23/32	2 5/32	4 9/16	7 1/4	13 9/32	1 3/32	25/32	16.16
7/8	15.5	11 11/32	2 27/32	3 17/32	2 1/16	2 13/32	5 3/16	8 1/16	14 29/32	1 3/16	13/16	21.8

CAD | INFO

* could be delivered with a yellow or red finish

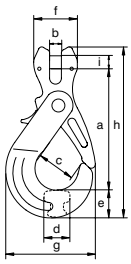
Scan for additional product details

Green Pin® Self Locking Hook CL EN 1677-3 GR8

Grade 80 clevis self locking hook EN 1677-3

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pins available for $^{3}/_{16}$ inch, $^{9}/_{32}$ inch and $^{11}/_{32}$ inch hoist chain on request, which can be combined with respectively GPXLC0, GPXLC1, GPXLC2

XLC



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
$^{7}/_{32}$	1.12	3 $^{21}/_{32}$	$^{9}/_{32}$	1 $^{1}/_{4}$	$^{21}/_{32}$	$^{15}/_{16}$	1 $^{3}/_{32}$	2 $^{15}/_{16}$	5 $^{1}/_{8}$	$^{5}/_{16}$	1.08
$^{1}/_{4}$ - $^{5}/_{16}$	2	4 $^{9}/_{16}$	$^{11}/_{32}$	1 $^{11}/_{16}$	$^{15}/_{16}$	1 $^{3}/_{32}$	1 $^{1}/_{4}$	3 $^{19}/_{32}$	6 $^{11}/_{32}$	$^{11}/_{32}$	2.01
$^{3}/_{8}$	3.2	5 $^{21}/_{32}$	$^{15}/_{32}$	1 $^{7}/_{8}$	1 $^{1}/_{4}$	1 $^{11}/_{32}$	1 $^{21}/_{32}$	4 $^{13}/_{32}$	7 $^{29}/_{32}$	$^{1}/_{2}$	3.9
$^{1}/_{2}$	5.4	6 $^{21}/_{32}$	$^{19}/_{32}$	2 $^{15}/_{32}$	1 $^{15}/_{32}$	1 $^{23}/_{32}$	2 $^{1}/_{8}$	5 $^{9}/_{16}$	9 $^{17}/_{32}$	$^{5}/_{8}$	7.34
$^{5}/_{8}$	8.2	8 $^{1}/_{32}$	$^{23}/_{32}$	2 $^{15}/_{16}$	1 $^{11}/_{16}$	2 $^{7}/_{32}$	2 $^{11}/_{16}$	7 $^{5}/_{32}$	11 $^{21}/_{32}$	$^{25}/_{32}$	14.88
$^{3}/_{4}$	12.8	9 $^{7}/_{32}$	$^{7}/_{8}$	3 $^{17}/_{32}$	2 $^{1}/_{16}$	2 $^{7}/_{16}$	3 $^{7}/_{32}$	8 $^{1}/_{16}$	13 $^{7}/_{16}$	$^{15}/_{16}$	21.1

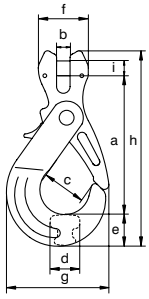
CAD | INFO

Green Pin® Self Locking Hook CL GR8

Grade 80 clevis self locking hook

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | MTC [a] | MPI [b] | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pins available for $^{9}/_{32}$ inch and $^{11}/_{32}$ inch hoist chain on request, which can be combined with respectively GPGKC1, GPGKC2

GKC



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
$^{1}/_{4}$ - $^{5}/_{16}$	2	3 $^{25}/_{32}$	$^{11}/_{32}$	1 $^{1}/_{4}$	$^{21}/_{32}$	$^{15}/_{16}$	1 $^{1}/_{4}$	2 $^{15}/_{16}$	5 $^{11}/_{32}$	$^{11}/_{32}$	1.21
$^{3}/_{8}$	3.2	4 $^{19}/_{32}$	$^{15}/_{32}$	1 $^{23}/_{32}$	$^{15}/_{16}$	1 $^{3}/_{32}$	1 $^{21}/_{32}$	3 $^{19}/_{32}$	6 $^{9}/_{16}$	$^{1}/_{2}$	2.25
$^{1}/_{2}$	5.4	6 $^{1}/_{32}$	$^{19}/_{32}$	1 $^{7}/_{8}$	1 $^{1}/_{4}$	1 $^{5}/_{16}$	2 $^{1}/_{8}$	4 $^{3}/_{8}$	8 $^{17}/_{32}$	$^{5}/_{8}$	4.43
$^{5}/_{8}$	8.2	6 $^{7}/_{8}$	$^{23}/_{32}$	2 $^{15}/_{32}$	1 $^{15}/_{32}$	1 $^{21}/_{32}$	2 $^{11}/_{16}$	5 $^{9}/_{16}$	9 $^{31}/_{32}$	$^{25}/_{32}$	8.16
$^{3}/_{4}$	12.8	8 $^{1}/_{2}$	$^{7}/_{8}$	2 $^{15}/_{16}$	1 $^{23}/_{32}$	2 $^{5}/_{32}$	3 $^{7}/_{32}$	7 $^{1}/_{4}$	12 $^{7}/_{16}$	$^{15}/_{16}$	16.62
$^{7}/_{8}$	15.5	9 $^{9}/_{16}$	$^{31}/_{32}$	3 $^{17}/_{32}$	2 $^{1}/_{16}$	2 $^{13}/_{32}$	3 $^{13}/_{16}$	8 $^{1}/_{16}$	13 $^{13}/_{16}$	1 $^{3}/_{32}$	22.7

CAD | INFO

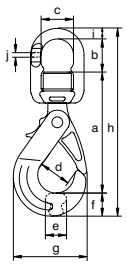
* could be delivered with a yellow or red finish

Scan for additional product details

Green Pin® Self Locking Hook SE EN 1677-3 GR8

Grade 80 swivel self locking hook EN 1677-3

XLE



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearing to enable rotation under load

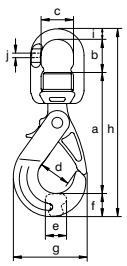
for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
3/16 - 7/32	1.12	4 27/32	1 5/16	1 1/4	1 1/4	5/8	15/16	2 15/16	7 17/32	15/32	1/4	1.72
1/4 - 5/16	2	5 7/8	1 5/8	1 15/32	1 11/16	15/16	1 3/32	3 19/32	9 1/8	9/16	5/16	3.06
3/8	3.2	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 11/32	4 13/32	11 5/32	5/8	7/16	5.64
1/2	5.4	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 23/32	5 9/16	13 9/32	13/16	9/16	10.05
5/8	8.2	10 3/4	2 5/8	2 7/8	2 15/16	1 11/16	2 7/32	7 5/32	16 17/32	31/32	21/32	20.9
3/4	12.8	11 31/32	3 7/16	3 7/32	3 17/32	2 1/16	2 7/16	8 1/16	18 13/16	31/32	7/8	28

CAD | INFO

Green Pin® Self Locking Hook SE GR8

Grade 80 swivel self locking hook

GKE



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | MTC [a] | MPI [b] | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearing to enable rotation under load

for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
1/4 - 5/16	2	4 27/32	1 5/16	1 1/4	1 1/4	21/32	15/16	2 15/16	7 17/32	15/32	1/4	1.7
3/8	3.2	5 7/8	1 5/8	1 15/32	1 23/32	15/16	1 3/32	3 19/32	9 3/32	9/16	5/16	3.04
1/2	5.4	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 5/16	4 3/8	11 3/32	5/8	7/16	5.64
5/8	8.2	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 21/32	5 9/16	13 7/32	13/16	9/16	10.1
3/4	12.8	10 23/32	2 5/8	2 7/8	2 15/16	1 25/32	2 5/32	7 1/4	16 15/32	31/32	21/32	21

CAD | INFO

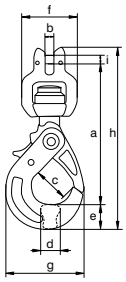
* could be delivered with a yellow or red finish

Green Pin® Self Locking Hook SCL EN 1677-3 GR8

Grade 80 swivel clevis self locking hook EN 1677-3

Scan for additional product details

XLBA



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pins available for $^{3}/_{16}$ inch, $^{9}/_{32}$ inch and $^{11}/_{32}$ inch hoist chain on request, which can be combined with respectively GPXLBA0, GPXLBA1, GPXLBA2

for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
$^{7}/_{32}$	1.12	5 $^{7}/_{8}$	$^{9}/_{32}$	1 $^{1}/_{4}$	$^{21}/_{32}$	$^{15}/_{16}$	2 $^{7}/_{32}$	2 $^{15}/_{16}$	7 $^{5}/_{16}$	$^{5}/_{16}$	1.74
$^{1}/_{4}$ - $^{5}/_{16}$	2	7	$^{11}/_{32}$	1 $^{11}/_{16}$	$^{15}/_{16}$	1 $^{3}/_{32}$	2 $^{9}/_{16}$	3 $^{19}/_{32}$	8 $^{25}/_{32}$	$^{11}/_{32}$	3.02
$^{3}/_{8}$	3.2	8 $^{19}/_{32}$	$^{15}/_{32}$	1 $^{7}/_{8}$	1 $^{1}/_{4}$	1 $^{11}/_{32}$	3 $^{1}/_{8}$	4 $^{13}/_{32}$	10 $^{25}/_{32}$	$^{1}/_{2}$	5.73
$^{1}/_{2}$	5.4	9 $^{27}/_{32}$	$^{19}/_{32}$	2 $^{15}/_{32}$	1 $^{15}/_{32}$	1 $^{23}/_{32}$	3 $^{25}/_{32}$	5 $^{9}/_{16}$	12 $^{3}/_{4}$	$^{5}/_{8}$	10.41
$^{5}/_{8}$	8.2	12 $^{11}/_{16}$	$^{3}/_{4}$	2 $^{15}/_{16}$	1 $^{11}/_{16}$	2 $^{7}/_{32}$	4 $^{3}/_{4}$	7 $^{5}/_{32}$	16 $^{5}/_{16}$	$^{25}/_{32}$	21.6

CAD | INFO

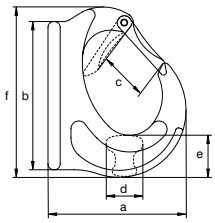
Scan for additional product details

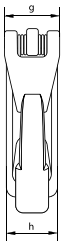
Green Pin® Excavator Hook GR8

Grade 80 excavator hook

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** welding must be done in accordance with DIN 5817 resp. 15429, by a qualified welder according to EN 287-1

GH





working load limit	width	length	width opening	thickness	width	length	width	width	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
1	2 27/32	3 1/16	31/32	3/4	1 3/32	4 1/4	1 7/32	1 1/32	1.15
2	7	7 3/4	2 3/8	1 13/16	2 13/32	8 15/16	1 31/32	2 19/32	1.65
3	7 9/32	8 25/32	2 9/16	2 3/8	2 3/4	9 7/8	2 5/32	3 5/32	2.54
4	3 19/32	3 9/32	1 5/16	25/32	1 3/32	4 7/16	1 7/32	1 11/32	3.66
5	4 1/8	4 1/8	1 5/16	1 1/32	1 1/4	5 1/32	1 7/32	1 11/32	5.51
8	4 3/4	5 1/8	1 3/8	1 1/16	1 13/32	5 13/16	1 9/16	1 1/2	7.32
10	5 7/16	5 7/8	1 11/16	1 3/32	1 25/32	6 17/32	1 9/16	1 23/32	14.2
15	5 23/32	5 13/16	1 11/16	1 5/8	2 1/16	6 13/16	1 9/16	2	21.4

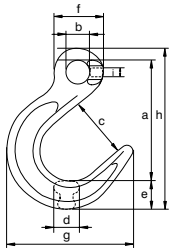
CAD INFO

Green Pin® Foundry Hook E GR8

Grade 80 eye foundry hook

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/A952M
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 * MTC [a] * MPI [b] * DGUV * CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 8.2 t without flat part

CFO



for chain diameter	working load limit	length	diameter eye inside	width opening	thickness	width	diameter eye outside	width outside	length	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	1.12	3 21/32	3/4	1 7/8	21/32	13/16	1 1/2	3 13/16	4 7/8	9/32	0.73
1/4 - 5/16	2	4 29/32	31/32	2 17/32	7/8	1 3/32	1 31/32	5 3/32	6 1/2	11/32	1.72
3/8	3.2	6 3/16	1 11/32	3 1/8	1 1/16	1 3/8	2 9/16	6 11/32	8 3/16	7/16	3.31
1/2	5.4	7 15/32	1 23/32	3 3/4	1 3/8	1 25/32	3 5/16	7 25/32	10	1/2	6.61
5/8 **	8.2	8 1/16	1 3/8	3 3/4	1 25/32	2 1/16	3 15/32	8 1/32	11 3/16	15/16	9.17
3/4 **	12.8	9 1/4	1 9/16	4 3/8	2 3/32	2 5/32	3 5/8	8 31/32	12 13/32	31/32	17.2
7/8 **	15.5	10 7/16	1 13/16	4 27/32	2 19/32	2 25/32	4 11/32	10 5/32	10 9/16	1 1/4	21.8
1 **	21.6	12	2 1/8	5 1/4	2 9/16	3 3/16	4 23/32	10 29/32	16 17/32	1 5/16	30.4
1 1/4 **	32.8	12 7/8	2 3/8	6 3/32	3 5/16	3 25/32	5 5/32	13 1/8	18 1/16	1 3/8	54

* Excluding sizes 5/8 inch, 3/4 inch, 7/8 inch, 1 inch and 1 1/4 inch
** Different design

* could be delivered with a yellow or red finish

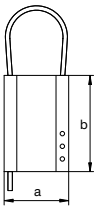
Scan for additional product details

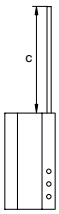
Green Pin® ID Tag

Aluminium identification tag

- **Material:** aluminium
- **Finish:** see table below
- **Certification:** 2.1

TAG





partnumber	finish	width	length	length	weight each
		a inch	b inch	c inch	lbs
TAGVIERGE	self-coloured	2	3	8 21/32	0.15
TAGJ	anodized yellow	2	3	8 21/32	0.15
TAGGREEN	anodized green	2	3	8 21/32	0.15
TAGRED	anodized red	2	3	8 21/32	0.15
TAGBLUE	anodized blue	2	3	8 21/32	0.15
TAGDEMI	self-coloured	2	1 1/2	8 21/32	0.09
TAGB without wire rope	self-coloured	2	3		0.13

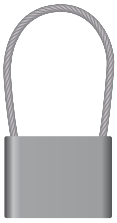
TAGVIERGE

TAGJ

TAGGREEN

TAGRED

TAGBLUE



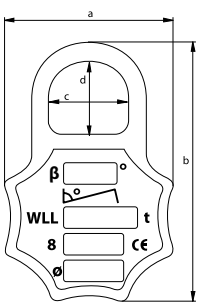
TAGDEMI

Green Pin® ID Tag for Grade 8 Slings

Forged identification tag for grade 80 slings

- **Material:** drop forged mild steel
- **Finish:** electro galvanized
- **Certification:** 2.1

TAGF



width	length	width inside	length inside	weight each
a inch	b inch	c inch	d inch	lbs
2 15/16	4 17/32	1 3/8	1 1/4	0.62

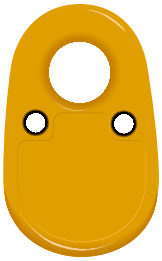
RFID

Scan for additional product details

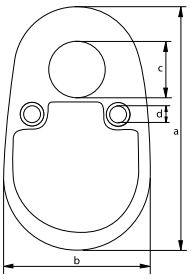
Green Pin® RFID Tag

Accessory for radio-frequency identification of slings

- **Material:** stainless steel
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Finish:** polymer
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
2 3/32	1 5/16	15/32	5/32	3.97

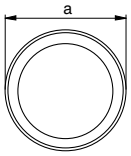
RFID INFO

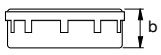
Green Pin® RFID Chip

Accessory for radio-frequency identification of slings

- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof

CHIPRFID





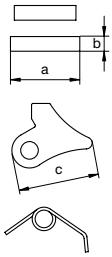
diameter	thickness	weight per 100 pcs
a inch	b inch	lbs
1/4	3/32	0.04

RFID INFO

Green Pin® Self Locking Hooks GR8/GR10 Spare Kit

Replacement kit for grade 80 and 100 self locking hooks

VR



- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier

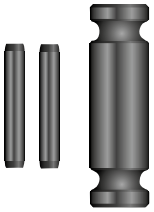
partnumber	length pin	diameter pin	width	weight each
	a inch	b inch	c inch	lbs
VR1	7/8	1/4	1 3/32	0.04
VR2	1 1/32	1/4	1 7/32	0.07
VR3	1 1/4	5/16	1 15/32	0.11
VR4	1 9/16	13/32	1 27/32	0.22
VR5	2 5/32	13/32	2 9/32	0.44

partnumber	for fitting							
	GKO	XLO	GKC	XLC	GKE	XLE	XLBA	XLS
VR1	GPGKO1	GPXLO0	GPGKC1	GPXLC0	GPGKE1	GPXLE0	GPXLBA0	
VR2	GPGKO2	GPXLO1	GPGKC2	GPXLC1	GPGKE2	GPXLE1	GPXLBA1	
VR3	GPGKO3	GPXLO2	GPGKC3	GPXLC2	GPGKE3	GPXLE2	GPXLBA2	GPXLS60
VR4	GPGKO4	GPXLO3	GPGKC4	GPXLC3	GPGKE4	GPXLE3	GPXLBA3	
VR5	GPGKO5	GPXLO4	GPGKC5	GPXLC4	GPGKE5	GPXLE4	GPXLBA4	
	GPGKO6	GPXLO5	GPGKC6	GPXLC5	GPGKE6	GPXLE5		

INFO

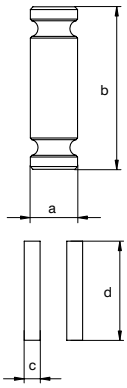
Green Pin® Clevis Fittings GR8 Spare Kit

Grade 80 spare kit for clevis fittings



- **Material:** alloy steel, grade 80, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB
- **Note:** GPAC5 is suitable for $^{7}/_{32}$ inch clevis components and fits $^{3}/_{16}$ inch hoist chain,
  GPAC7 is suitable for $^{5}/_{16}$ inch clevis components and fits $^{9}/_{32}$ inch hoist chain,
  GPAC9 is suitable for $^{3}/_{8}$ inch clevis components and fits $^{11}/_{32}$ inch hoist chain

AC



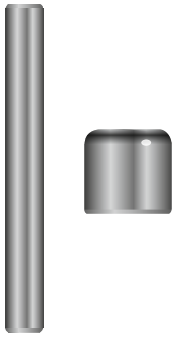
partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPAC5	$^{1}/_{4}$	1 $^{3}/_{32}$	$^{1}/_{8}$	$^{9}/_{16}$	0.02
GPAC6	$^{5}/_{16}$	1 $^{3}/_{32}$	$^{1}/_{8}$	$^{9}/_{16}$	0.02
GPAC7	$^{5}/_{16}$	1 $^{1}/_{4}$	$^{1}/_{8}$	$^{7}/_{8}$	0.04
GPAC7/8	$^{11}/_{32}$	1 $^{1}/_{4}$	$^{1}/_{8}$	$^{7}/_{8}$	0.04
GPAC9	$^{13}/_{32}$	1 $^{5}/_{8}$	$^{5}/_{32}$	$^{15}/_{16}$	0.09
GPAC10	$^{1}/_{2}$	1 $^{5}/_{8}$	$^{5}/_{32}$	$^{15}/_{16}$	0.09
GPAC13	$^{5}/_{8}$	2 $^{3}/_{32}$	$^{5}/_{32}$	1 $^{1}/_{4}$	0.18
GPAC16	$^{25}/_{32}$	2 $^{19}/_{32}$	$^{3}/_{16}$	1 $^{3}/_{8}$	0.35
GPAC18/20	$^{15}/_{16}$	3 $^{5}/_{32}$	$^{1}/_{4}$	1 $^{25}/_{32}$	0.62
GPAC22	1 $^{3}/_{32}$	3 $^{3}/_{4}$	$^{5}/_{16}$	1 $^{31}/_{32}$	0.99

partnumber	for fitting									
	MP	CO	CSC	CSECA	XLC	GKC	GC	GCV	CRC	XLBA
GPAC5	GPMP5	GPCO5	GPCSC5	GPCSECA5	GPXLC05		GPGC5	GPGCV5		GPXLBA05
GPAC6	GPMP6	GPCO6	GPCSC6	GPCSECA6	GPXLC0		GPGC6	GPGCV6	GPCRC6	GPXLBA0
GPAC7	GPMP7/8	GPCO7/8	GPCSC7/8	GPCSECA7/8	GPXLC1	GPGKC1	GPGC7/8		GPCRC7/8	GPXLBA1
GPAC7/8	GPMP7/8	GPCO7/8	GPCSC7/8	GPCSECA7/8	GPXLC1	GPGKC1	GPGC7/8	GPGCV8	GPCRC7/8	GPXLBA1
GPAC9	GPMP10	GPCO10	GPCSC10	GPCSECA10	GPXLC2	GPGKC2	GPGC10	GPGCV10	GPCRC10	GPXLBA2
GPAC10	GPMP10	GPCO10	GPCSC10	GPCSECA10	GPXLC2	GPGKC2	GPGC10	GPGCV10	GPCRC10	GPXLBA2
GPAC13	GPMP13	GPCO13	GPCSC13	GPCSECA13	GPXLC3	GPGKC3	GPGC13	GPGCV13	GPCRC13	GPXLBA3
GPAC16	GPMP16	GPCO16	GPCSC16	GPCSECA16	GPXLC4	GPGKC4	GPGC16	GPGCV16	GPCRC16	GPXLBA4
GPAC18/20	GPMP18/20	GPCO18/20	GPCSC18/20		GPXLC5	GPGKC5	GPGC18/20	GPGCV20		
GPAC22			GPCSC22			GPGKC6				

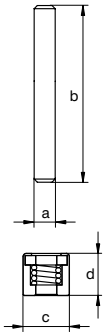
INFO

Green Pin® Connecting Link Spare Kit GR8

Grade 80 spare kit for connecting link



RMJ



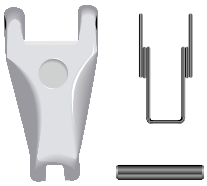
- **Material:** alloy steel, grade 80, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB

partnumber	diameter pin	length pin	diameter	width	weight each
	a inch	b inch	c inch	d inch	lbs
GPRMJ6	3/16	1 5/8	15/32	13/32	0.02
GPRMJ7/8	1/4	2 1/8	1/2	9/16	0.04
GPRMJ10	5/16	2 19/32	5/8	23/32	0.09
GPRMJ13	13/32	3 5/16	7/8	7/8	0.22
GPRMJ16	15/32	4 1/8	31/32	31/32	0.33
GPRMJ18/20	19/32	4 13/16	1 3/32	1 1/4	0.55
GPRMJ22	21/32	5 9/16	1 1/4	1 3/8	0.84
GPRMJ26	25/32	6 21/32	1 1/2	1 9/16	1.19
GPRMJ32	7/8	7 27/32	1 25/32	1 31/32	2.2

partnumber	for fitting	
	MJ	MJS
GPRMJ6	GPMJ6	
GPRMJ7/8	GPMJ7/8	GPMJS7/8
GPRMJ10	GPMJ10	GPMJS10
GPRMJ13	GPMJ13	GPMJS13
GPRMJ16	GPMJ16	
GPRMJ18/20	GPMJ18/20	
GPRMJ22	GPMJ22	
GPRMJ26	GPMJ26	
GPRMJ32	GPMJ32	

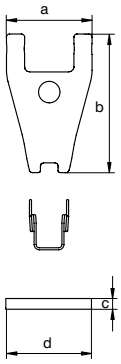
Green Pin® Latch GR8

Forged latch for grade 80



- **Material:** steel
- **Finish:** painted white*, GPLF8 is self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB

LF



partnumber	width	length	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPLF0	15/16	1 23/32	5/32	15/16	0.07
GPLF1	1 7/32	2 5/16	3/16	1 3/16	0.15
GPLF2	1 5/8	2 9/16	3/16	1 9/16	0.24
GPLF3	1 5/8	3 1/8	1/4	1 9/16	0.4
GPLF4	1 13/16	3 3/16	1/4	1 25/32	0.49
GPLF5	1 31/32	3 15/16	5/16	1 31/32	0.73
GPLF6	2 5/32	4 11/16	13/32	2 5/32	1.21
GPLF8	2 3/8	5 9/16	5/16	2 29/32	0.75

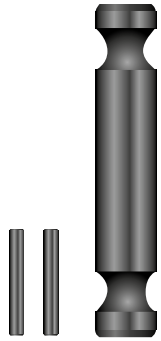
partnumber	for fitting					
	CSO	CSC	CSE	CSECA	GH	CST
GPLF0	GPCSO5/6	GPCSC5	GPCSE5/6	GPCSECA5		
		GPCSC6		GPCSECA6		
GPLF1	GPCSO7/8	GPCSC7/8	GPCSE7/8	GPCSECA7/8	GPGH1-GPGH2-GPGH3	GPCST75
GPLF2	GPCSO10	GPCSC10	GPCSE10	GPCSECA10	GPGH4	
GPLF3	GPCSO13	GPCSC13	GPCSE13	GPCSECA13	GPGH5 - GPGH8	
GPLF4	GPCSO16	GPCSC16	GPCSE16	GPCSECA16		
GPLF5	GPCSO18/20	GPCSC18/20	GPCSE18/20		GPGH10	
GPLF6	GPCSO22	GPCSC22			GPGH15	
GPLF8	GPCSO26 - GPCSO32					

INFO

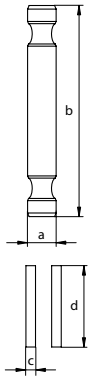
* could be delivered with a yellow or red finish

Green Pin® Clevis For Web Sling Connector GR8 Spare Kit

Grade 80 spare kit for clevis for web sling connector



RCOS



- **Material:** alloy steel, grade 80, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB

partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPRCOS7/8	11/32	2 9/32	1/8	7/8	0.07
GPRCOS10	1/2	2 29/32	5/32	15/16	0.18
GPRCOS13	5/8	3 11/16	5/32	1 1/4	0.33
GPRCOS16	25/32	4 9/16	3/16	1 3/8	0.55

partnumber	for fitting	
	COS	XLS
GPRCOS7/8	GPCOS60	
GPRCOS10	GPCOS90	
GPRCOS13	GPCOS150	GPXLS60
GPRCOS16	GPCOS240	

LIFTING SLING FITTINGS

FOR GRADE 100 CHAIN

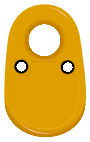
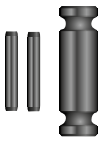
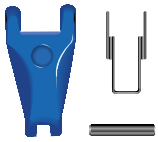
Applications

Green Pin® grade 100 lifting sling fittings enable the assembly of a complete sling from the top master link to the hook, with a 25 % WLL higher than grade 80.

For specific product information the following product groups can be found on the mentioned page:

Top links					
UMS page 180	**UMTS** page 181	**UMSW** page 182	**UMTSW** page 183		
Connectors					
UMP page 184	**UCO** page 184	**UMJ** page 185			
Chain					
UCHAIN page 185					

Table continues on next page

Shorteners					
UCRO page 186	**UCRC** page 186	**UGC** page 187	**UGCV** page 187	**UGDV** page 188	
End-fittings					
UELR page 189	**UCSO** page 190	**UCSC** page 190	**UXLO** page 191	**UXLORT** page 191	**UXLC** page 192
UXLCRT page 192	**UXLE** page 193	**UXLERT** page 193	**UCFO** page 194		
Accessories					
TAG page 195	**UTAGF** page 195	 **TAGRFID** page 196	**CHIPRFID** page 196	**VR** page 197	**VRRT** page 197
 **UAC** page 198	**URMJ** page 198	 **ULF** page 199			

Range

Green Pin® supplies a range of grade 100 lifting sling fittings generally from $^{7}/_{32}$ inch to $^{3}/_{4}$ inch chain diameters.

Below lifting sling fittings can be found:
- Links, e.g. Green Pin® Master Link, Connecting Link
- Chain, e.g. Green Pin® Lifting Chain Grade 100
- Swivel, e.g. Green Pin® Needle Bearing Swivel Eye-Eye
- Hooks, e.g. Green Pin® Sling Hook, Self Locking Hook

Design

Grade 100 lifting sling fittings has **up to 25 % higher load capacity than grade 80** lifting sling fittings. Connecting links and lifting sling fittings with clevis connection are supplied unassembled and ready for immediate use. Assembly is quick and easy.
Master links, eye hooks, eye swivels are generally supplied with a flat part for easy connection to the sling or for easy assembly with the omega link.

There are different types of hooks with specific designs to suit various purposes.

Hooks attachment options to sling:
- Hook with an eye at the top
- Hook with a swivel eye at the top
- Hook with a clevis at the top

Hook designs:
- Self-locking hook
- Self-locking hook with a recessed trigger
- Sling hook
- Grab hook
- Foundry hook

Chain slings can be shortened by using a grab hook or a shortening clutch.

Grade 100 lifting sling fittings are generally marked with:
- manufacturer's symbol - e.g. GP
- size in mm and/ or inch - e.g. 13 and/or $^{1}/_{2}$"
- traceability code - e.g. HA
- steel grade - e.g. 10
- item code (specific products) - e.g. UMJ
- origin (specific products) - e.g. France
- DGUV certified (specific products) - e.g. H94

As prescribed by the Machinery Directive 2006/42/EC our hooks, master links and connecting links are supplied with a CE Declaration of Incorporation (CE IIB), stating the products are in compliance with the requirements of the machinery directive. These products do not have a CE marking, since CE markings are only to be provided for machines, whereas hooks, master links and connecting links are components of machines, and not machines themselves. Providing components with a CE marking is an incorrect interpretation of the Machinery Directive.

Machinery definition according to Machinery Directive 2006/42/EC – Article 2 – definitions (a) and Machinery Regulation 2023/1230/EU:

"An assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort."

"The maximum working load shall be prominently marked on the lifting machinery. The marking shall be legible, indelible and in an un-coded form. Where the maximum working load depends on the configuration of the lifting machinery, each operating position shall be provided with a load plate indicating, preferably in diagrammatic form or by means of tables, the working load permitted for each configuration."

This definition means that a sling is a Machine and that the hooks, master links and connecting links are not considered as a machine themselves, but as components of a machine. The CE and the WLL markings in consequence, are mandatory only on the assembled sling tag as the sling is the machine according to MD 2006/42/EC. This rule is still valid with the new Machine Regulation 2023/1230 which will replace the MD cited previously within early 2027.

Finish

All grade 100 lifting sling fittings are painted. Grade 100 lifting sling fittings under the Green Pin® brand are painted blue.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements with Green Pin® at the time of order.

Instructions for use

Grade 100 lifting sling fittings, should be inspected before use to ensure that:

- all markings are legible.
- all lifting sling fittings of the complete sling are made of the same steel grade 100.
- a lifting sling fitting with the correct WLL has been selected with respect to the sling design. For further details, refer to the EN 818-4 with values for grade 100 and ASME B30.9 standard for Chain Slings.
- the pin, bolt, nut, bush or any other locking system cannot move or vibrate out of position.
- lifting sling fittings are free from nicks, gouges, and cracks.
- lifting sling fittings are not heat treated, modified, repaired or reshaped by machining or bent. (This may affect their Working Load Limit).
- lifting sling fittings items are not distorted or unduly worn. (Maximum allowable wear is 10 % of the original diameter)
- the latch of the hook(s) is present and functional.
- the hook is never side-, tip- or back- loaded.
- the hook is supporting the load correctly.
- the latch should not be supporting any load.
- only use the lifting sling fittings for in-line lifting.

Grade 100 lifting sling fittings must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse, and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use), and more frequently when the links are used in severe operating conditions.

Testing

Generally load rated products are proof load and MPI tested.
For specific information on certificates we refer to the separate paragraph on certification.

Green Pin® grade 100 lifting sling fittings are proof load tested at the following loads:

for chain diameter	Working Load Limit (WLL)	Proofload (PL)
inch	metric t	metric t
7/32	1.4	3.5
1/4	1.95	4.88
5/16	2.6	6.5
3/8	4	10
1/2	6.8	17
5/8	10.3	25.75
3/4	16	40

Temperature

If extreme temperature situations occur, the following load reductions must be taken into account:

Temperature °Celsius	Temperature °Fahrenheit	Reduction for elevated temperatures New Working Load Limit
-40 °C up to 200 °C	-40 °F up to 392 °F	100 % of original WLL
200 - 300 °C	392 - 572 °F	90 % of original WLL
300 - 400 °C	572 - 752 °F	75 % of original WLL
> 400 °C	> 752 °F	not allowed

Note: Grade 100 lifting chain, designation UCHAIN temperature range is -4 °F up to +392 °F cannot be used above +392 °F.

Working load limit table for grade 100 chain slings (US)

Chain Ø	90°	γ			γ γ			
	1 leg sling	2 leg sling			3 or 4 leg sling			Endless Sling
	90°	90° γ ≥ 60°	60°> γ ≥ 45°	45° > γ ≥ 30°	90° γ ≥ 60°	60°> γ ≥ 45°	45° > γ ≥ 30°	
		Safety factor 1.73	Safety factor 1.4	Safety factor 1.0	Safety factor 2.6	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
inch	t	t	t	t	t	t	t	t
7/32	1.22	2.11	1.72	1.22	3.18	2.59	1.81	1.96
9/32	1.95	3.37	2.77	1.95	5.08	4.13	2.90	3.12
5/16	2.60	4.50	3.69	2.60	6.71	5.50	3.90	4.16
3/8	4.00	6.92	5.65	4.00	10.39	8.50	6.00	6.40
1/2	6.80	11.76	9.60	6.80	17.69	14.20	10.20	10.88
5/8	10.30	17.82	14.50	10.30	26.63	21.80	15.45	16.48
3/4	16.00	27.68	22.40	16.00	41.59	33.60	24.00	25.60
7/8	19.00	32.87	26.50	19.00	50.30	40.00	28.00	30.40

When using multi leg slings make sure that the angles between the lifting points and sling legs are within the range marked on the sling. The horizontal angle, which is the angle between the sling leg and the horizontal, should never be smaller than 30°.

Symmetry of loading

The WLL values mentioned have been determined are based on symmetrical loading of the sling. This means that when the load is lifted, the sling legs are symmetrically distributed in the plane and all legs of the sling have the same angles to the vertical. For more details on chain slings refer to ASME B30.9.

The loading can be assumed to be symmetric if all the following conditions are met:
- the load is less than 80 % of marked WLL and
- sling leg angles to the horizontal are all less then 75° and
- sling leg angles to the vertical are all within 15° to each other and
- in the case of three- and four- leg slings, the plane angles are within 15° of each other.

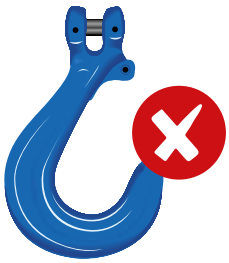
If one of the above parameters is not met, the loading should be considered to be asymmetric, and the lift should be referred to a competent engineer to establish the safe rating for the sling. Alternatively, in the case of asymmetric loading, the sling should be derated to half the marked WLL. If the load tends to tilt during the lift, it should be lowered, and the attachments changed by repositioning the attachment points or by using compatible shortening devices. The safety factor of 4 on the individual components is designed for safety only. Never exceed the indicated WLL.

Use the below reduction table if a multi leg sling is not used for the purpose for which it has been designed, for example for a lifting operation with fewer legs than the number of legs of the sling:

Types of chain sling	Number of legs used	Factor to apply to marked WLL
Two-leg	1	1/2
Three- and four-leg	2	2/3
Three- and four-leg	1	1/3

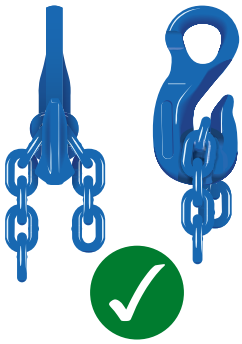
Examples of do's and don'ts

A hook cannot be used as a clamp.

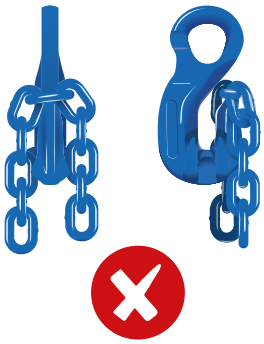


Don't use hooks without latch, as an exception is the foundry hook.

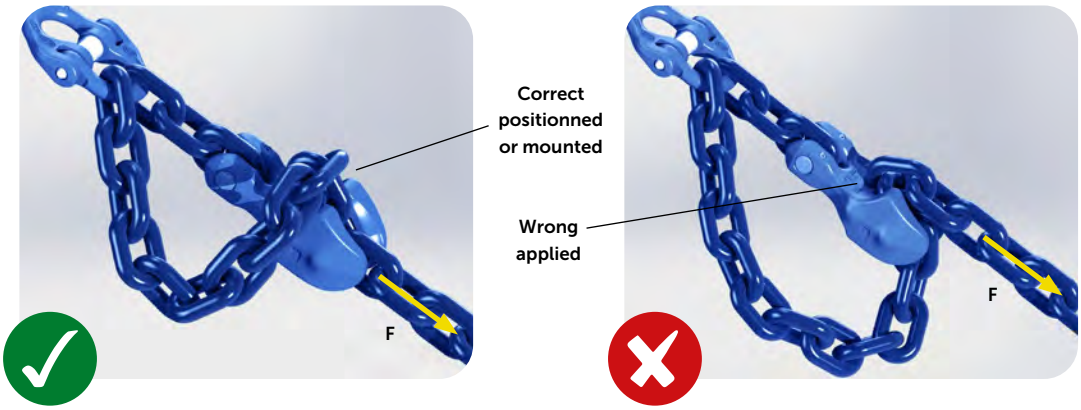
Hook body and latch may not be bent. This is a sign the hook is overloaded.



Position the chain properly in the throat.



Do not tip load hooks.



Load (F) bearing chain always needs to be at the bottom of the shortening clutch.

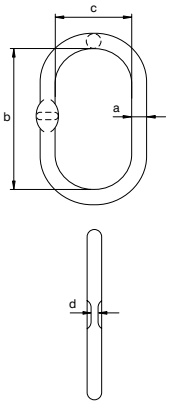
Green Pin® Master Link GR10

Grade 100 master link

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMS



diameter	diameter chain 1 leg	diameter chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a inch	inch	90° γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	lbs
1/2	7/32	-	7/32	7/32	2	4 17/32	2 3/8	9/32	0.88
5/8	9/32 - 5/16	7/32	-	9/32 - 5/16	3.2	4 23/32	2 3/4	9/32	1.32
23/32	3/8	9/32 - 5/16	9/32 - 5/16	3/8	5.4	5 5/16	2 15/16	11/32	1.85
7/8	1/2	3/8	3/8	1/2	8.2	6 11/16	3 17/32	7/16	3.53
31/32	5/8	-	1/2	5/8	11.2	7 15/32	4 1/16	9/16	4.78
1 3/16	3/4	-	5/8	3/4	16	9 1/4	4 29/32	21/32	8.82
1 1/2	7/8	3/4	3/4 - 7/8	7/8	27.6	9 27/32	5 29/32	7/8	15.65

CAD

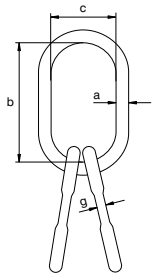
Green Pin® Master Link Assembly GR10

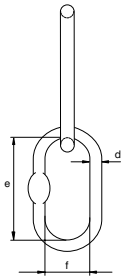
Grade 100 master link assembly

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMTS





diameter	diameter chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
23/32	-	7/32	7/32	3.65	5 5/16	2 15/16	5/8	4 23/32	2 3/4	9/32	4.34
7/8	9/32 - 5/16	9/32 - 5/16	9/32 - 3/8	6.8	6 11/16	3 17/32	23/32	5 5/16	2 15/16	11/32	7.28
1 3/32	3/8	3/8	1/2	11	8 7/32	4 23/32	25/32	5 29/32	3 7/32	7/16	11.9
1 13/32	1/2	1/2	5/8	17.7	10 5/8	5 23/32	31/32	7 15/32	4 1/16	9/16	24.7
1 1/2	-	5/8	3/4	21.2	9 27/32	5 29/32	1 3/16	9 1/4	4 29/32	21/32	33.3
1 31/32	3/4	3/4	7/8	41.6	14 31/32	7 7/8	1 1/2	9 27/32	5 29/32	7/8	71

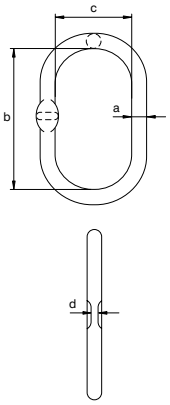
CAD

Green Pin® Wider Master Link GR10

Grade 100 wider master link

Scan for additional product details

UMSW



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

working load limit	diameter	length inside	width inside	thickness	weight each
metric t	a inch	b inch	c inch	d inch	lbs
4.1	21/32	6 5/16	3 17/32	11/32	1.87
6.7	3/4	6 5/16	3 17/32	11/32	2.38
11.5	1	8 9/32	4 17/32	1/2	5.36
17	1 5/16	10 5/8	5 1/2	21/32	11.9
27.7	1 1/2	10 13/16	5 29/32	13/16	16.53
45	2	14 31/32	7 7/8	1 31/32	39
64	2 1/4	15 3/4	7 7/8	2 7/32	52

CAD

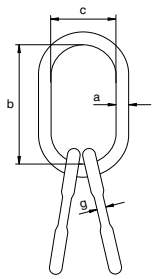
Green Pin® Wider Master Link Assembly GR10

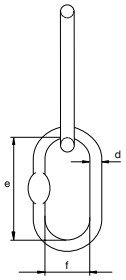
Grade 100 wider master link assembly

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMTSW





working load limit	diameter	length inside	width inside	diameter	length inside	width inside	thickness	weight each
metric	a	b	c	d	e	f	g	
t	inch	inch	inch	inch	inch	inch	inch	lbs
4.3	3/4	6 5/16	3 17/32	9/16	4 23/32	2 3/4	11/32	4.32
6.7	29/32	7 3/32	3 15/16	21/32	6 5/16	3 17/32	11/32	7.72
28.1	1 9/16	11 13/16	6 5/16	1 5/16	10 5/8	5 1/2	21/32	43.7
38.3	1 3/4	13 3/8	7 3/32	1 1/2	10 13/16	5 29/32	13/16	61
75	2 3/8	15 3/4	7 7/8	1 31/32	14 31/32	7 7/8	1 31/32	138

CAD

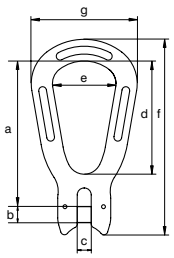
Scan for additional product details

Green Pin® Pear Shaped Link GR10

Grade 100 pear shaped link

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

UMP



for chain diameter	working load limit	length	diameter pin	width	length inside	width inside	length	width outside	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
7/32	1.4	3 5/16	5/16	9/32	2 17/32	1 5/16	4 9/32	2 5/32	0.31
1/4	1.95	3 15/16	13/32	11/32	3 1/32	1 9/16	5 3/16	2 23/32	0.62
5/16	2.6	3 15/16	13/32	11/32	3 1/32	1 9/16	5 3/16	2 23/32	0.62
3/8	4	4 29/32	1/2	15/32	3 13/16	1 31/32	6 1/2	3 5/16	1.39
1/2	6.8	6 11/32	5/8	19/32	4 29/32	2 19/32	8 3/8	4 11/32	3.09
5/8	10.3	7 25/32	25/32	3/4	6 1/16	3 5/16	10 5/16	5 1/2	6.02

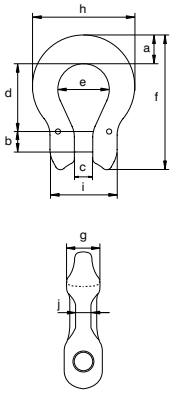
CAD INFO

Green Pin® Omega Link GR10

Grade 100 omega link

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UCO



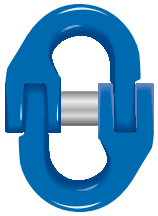
for chain diameter	working load limit	width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	1.4	9/16	5/16	9/32	31/32	25/32	2 3/32	1/2	1 5/8	1 3/32	1/4	0.15
1/4	1.95	13/16	13/32	11/32	1 11/32	15/16	2 27/32	5/8	2 9/32	1 1/4	11/32	0.4
5/16	2.6	13/16	13/32	11/32	1 11/32	15/16	2 27/32	5/8	2 9/32	1 1/4	11/32	0.4
3/8	4	13/16	1/2	15/32	1 9/16	1 7/32	3 5/16	3/4	2 5/8	1 21/32	7/16	0.62
1/2	6.8	1 3/32	5/8	19/32	2	1 9/16	4 9/32	29/32	3 17/32	2 1/8	9/16	1.41
5/8	10.3	1 3/8	25/32	3/4	2 17/32	1 7/8	5 5/16	1 1/16	4 11/32	2 11/16	21/32	2.67

CAD INFO

Scan for additional product details

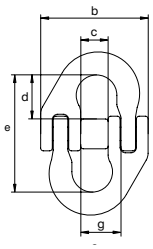
Green Pin® Connecting Link GR10

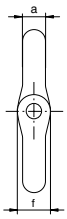
Grade 100 connecting link



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UMJ





for chain diameter	working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
7/32	1.4	5/16	1 21/32	7/16	25/32	2 1/16	7/16	19/32	0.2
1/4	1.95	11/32	2 3/32	9/16	25/32	2 5/32	5/8	3/4	0.4
5/16	2.6	11/32	2 3/32	9/16	25/32	2 5/32	5/8	3/4	0.4
3/8	4	15/32	2 19/32	23/32	29/32	2 17/32	23/32	29/32	0.68
1/2	6.8	5/8	3 9/32	13/16	1 1/4	3 11/32	15/16	1 3/32	1.5
5/8	10.3	3/4	4 1/8	31/32	1 9/16	4 1/8	1 3/32	1 11/32	2.8
3/4	16	29/32	4 13/16	1 5/16	1 15/16	5 1/32	1 1/2	1 21/32	5

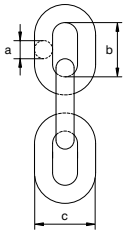
CAD INFO

Green Pin® Lifting Chain GR10

Grade 100 lifting chain

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN818-2 with grade 100 values
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] CE IIB
- **Article code:** scan QR code to see article codes

UCHAIN



diameter	working load limit	length inside	width outside	links per foot	length per drum	weight per meter
a inch	metric t	b inch	c inch		Ft	lbs
7/32	1.4	23/32	7/8	16.93	656	1.76
5/16	2.6	15/16	1 3/16	12.70	656	3.31
3/8	4	1 3/16	1 13/32	10.16	656	5.07
1/2	6.8	1 17/32	1 7/8	7.82	328	8.6
5/8	10.3	1 7/8	2 9/32	6.35	328	12.79
3/4	16	2 3/8	2 27/32	5.08	164	19.62

CAD

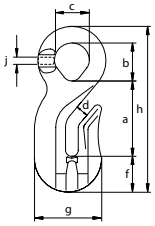
Scan for additional product details

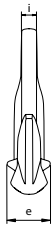
Green Pin® Grab Hook E GR10

Grade 100 eye grab hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

UCRO





for chain diameter	working load limit	length	inside length eye	inside width eye	opening	thickness	width	width outside	length outside	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	1.4	1 5/8	15/16	29/32	5/16	15/16	25/32	1 21/32	3 11/16	11/32	1/4	0.53
1/4 - 5/16	2.6	2 3/32	1 1/16	1 1/16	13/32	1 15/32	1 3/32	2 3/32	4 23/32	13/32	5/16	1.12
3/8	4	2 5/8	1 1/2	1 13/32	15/32	1 21/32	1 17/32	2 19/32	6 7/32	9/16	13/32	2.38
1/2	6.8	3 5/16	1 21/32	1 21/32	19/32	2 7/32	1 9/16	3 7/16	7 5/16	5/8	15/32	4.41
5/8	10.3	4 3/32	2 3/32	2 1/16	3/4	2 9/16	2 9/32	4 3/16	9 9/32	21/32	5/8	5.49

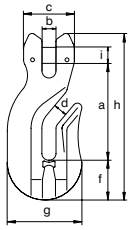
CAD

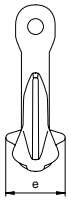
Green Pin® Grab Hook CL GR10

Grade 100 clevis grab hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

UCRC





for chain diameter	working load limit	length	width	width outside	opening	thickness	width	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	1.4	2 1/16	9/32	1 3/32	5/16	15/16	31/32	1 21/32	3 19/32	5/16	0.77
1/4	1.95	2 17/32	11/32	1 1/4	13/32	1 15/32	1 3/32	2 3/32	4 1/4	13/32	0.77
5/16	2.6	2 17/32	11/32	1 1/4	13/32	1 15/32	1 3/32	2 3/32	4 1/4	13/32	0.77
3/8	4	3 1/2	7/16	1 21/32	15/32	1 21/32	1 17/32	2 19/32	5 15/16	1/2	2.34
1/2	6.8	4 1/16	19/32	2 1/8	19/32	2 7/32	1 9/16	3 7/16	6 13/16	5/8	3.75
5/8	10.3	4 23/32	23/32	2 5/8	3/4	2 9/16	2 9/32	4 3/16	8 7/16	25/32	8.29

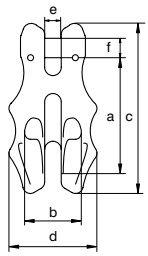
CAD INFO

Scan for additional product details

Green Pin® Shortening Clutch GR10

Grade 100 shorting clutch with locking pin

UGC



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

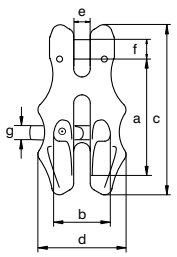
for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
7/32	1.4	2 1/16	29/32	2 15/16	1 21/32	9/32	5/16	0.51
1/4	1.95	2 5/8	1 3/16	3 11/16	1 31/32	11/32	13/32	0.99
5/16	2.6	2 5/8	1 3/16	3 11/16	1 31/32	11/32	13/32	0.99
3/8	4	3 9/32	1 1/2	4 9/16	2 15/32	7/16	1/2	1.98
1/2	6.8	4 3/32	1 15/16	5 7/8	3 1/8	9/16	5/8	3.92
5/8	10.3	5	2 3/8	7 1/4	3 29/32	23/32	25/32	7.05
3/4	16	6 1/16	2 15/16	8 15/32	4 7/8	7/8	15/16	12.74

CAD INFO

Green Pin® Shortening Clutch with Lock GR10

Grade 100 shortening clutch with locking pin

UGCV



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 and DIN5692 with grade 100 values and ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

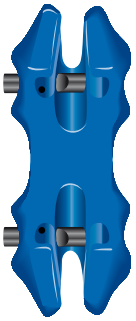
for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
7/32	1.4	2 1/16	29/32	2 15/16	1 21/32	9/32	5/16	9/32	0.51
5/16	2.6	2 5/8	1 3/16	3 11/16	1 31/32	11/32	13/32	5/16	0.97
3/8	4	3 9/32	1 1/2	4 9/16	2 15/32	7/16	1/2	15/32	1.92
1/2	6.8	4 3/32	1 15/16	5 7/8	3 1/8	9/16	5/8	5/8	3.68
5/8	10.3	5	2 3/8	7 1/4	3 29/32	23/32	25/32	25/32	6.83
3/4	16	6 1/16	2 15/16	8 15/32	4 7/8	7/8	15/16	25/32	12.79

CAD INFO

Green Pin® Shortening Clutch with Double Lock GR10

Scan for additional product details

Grade 100 shortening clutch with double locking pin



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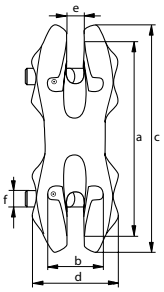


- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | MPI [b] | DGUV | CE IIA
- **Article code:** scan QR code to see article codes

for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
7/32	1.4	3 15/16	29/32	4 23/32	1 21/32	9/32	9/32	1.08
5/16	2.6	4 13/32	1 3/16	5 1/2	1 31/32	11/32	5/16	1.7
1/2	6.8	7 3/32	1 15/16	8 3/16	3 1/8	19/32	5/8	6.28

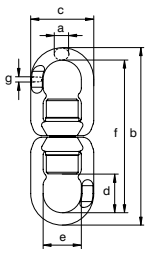
CAD INFO

Green Pin® Needle Bearing Swivel EE GR10

Grade 100 needle bearing eye-eye swivel

Scan for additional product details

UELR



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with two thrust needle roller bearings to enable rotation under load

for chain diameter	working load limit	diameter	length outside	width outside	length inside	width inside	length	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
7/32	1.4	15/32	5 7/8	2 7/32	1 5/16	1 1/4	4 31/32	1/4	1.34
1/4 - 5/16	2.6	9/16	7 1/8	2 9/16	1 9/16	1 15/32	6 1/32	5/16	2.36
3/8	4	5/8	8 29/32	3 1/8	1 7/8	1 7/8	7 11/16	7/16	4.19
1/2	6.8	25/32	10 9/16	3 25/32	2 3/8	2 9/32	8 15/16	9/16	6.99
5/8	10.3	31/32	12 15/16	4 3/4	2 5/8	2 7/8	10 31/32	21/32	14.2
3/4	16	31/32	14 7/8	5 3/16	3 15/32	3 7/32	12 29/32	7/8	17.09

CAD

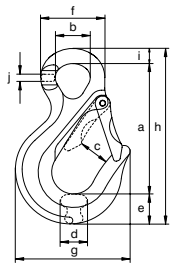
Scan for additional product details

Green Pin® Sling Hook E GR10

Grade 100 eye sling hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 10 t without flat part

UCSO



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	diameter eye outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	1.4	3 3/8	29/32	1 1/32	19/32	3/4	1 11/16	2 7/8	4 1/2	13/32	1/4	0.62
1/4 - 5/16	2.6	4 1/16	1 1/32	1 3/16	3/4	15/16	2	3 7/16	5 15/32	15/32	5/16	1.15
3/8	4	5 3/32	1 13/32	1 5/16	15/16	1 3/32	2 9/16	4 3/16	6 23/32	19/32	13/32	2.4
1/2	6.8	5 31/32	1 5/8	1 15/32	1 1/4	1 17/32	3 1/32	5 1/4	8 7/32	23/32	15/32	4.28
5/8	10.3	7 17/32	2 1/16	1 11/16	1 9/16	1 11/16	3 11/16	6 1/2	10 1/32	13/16	21/32	7.74
3/4	16	9 11/32	2 13/32	2 13/32	1 15/16	2 13/32	4 17/32	8 3/16	12 27/32	1 3/32	13/16	15.61

CAD INFO

Green Pin® Sling Hook CL GR10

Grade 100 clevis sling hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

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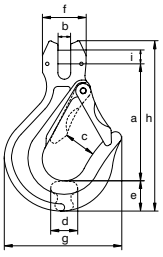

for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	1.4	2 29/32	9/32	1 1/32	19/32	25/32	1 3/32	2 27/32	4 1/4	5/16	0.64
1/4	1.95	3 3/4	11/32	1 3/16	25/32	15/16	1 1/4	3 7/16	5 11/32	11/32	1.28
5/16	2.6	3 3/4	11/32	1 3/16	25/32	15/16	1 1/4	3 7/16	5 11/32	11/32	1.28
3/8	4	4 7/16	7/16	1 5/16	15/16	1 5/32	1 21/32	4 3/16	6 15/32	1/2	2.45
1/2	6.8	5 15/32	19/32	1 15/32	1 1/4	1 17/32	2 1/8	5 1/4	8 3/16	5/8	4.67
5/8	10.3	6 3/8	23/32	1 23/32	1 9/16	1 23/32	2 11/16	6 1/2	9 7/16	25/32	8.33
3/4	16	7 27/32	29/32	2 13/32	1 15/16	2 7/16	3 7/32	8 3/16	12	15/16	16.51

CAD INFO

Scan for additional product details

Green Pin® Self Locking Hook E GR10

Grade 100 eye self locking hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

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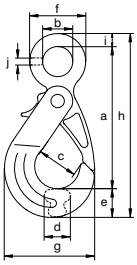

for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	1.4	4 7/16	15/16	1 1/4	5/8	15/16	1 27/32	2 15/16	5 13/16	7/16	1/4	1.12
1/4 - 5/16	2.6	5 11/32	1 3/16	1 11/16	15/16	1 3/32	2 1/4	3 19/32	7	9/16	5/16	2.01
3/8	4	6 5/8	1 13/32	1 7/8	1 1/4	1 11/32	2 11/16	4 11/32	8 19/32	5/8	13/32	3.95
1/2	6.8	7 29/32	1 27/32	2 15/32	1 15/32	1 11/16	3 7/16	5 9/16	10 13/32	25/32	1/2	7.41
5/8	10.3	9 7/8	2 3/8	2 15/16	1 11/16	2 7/32	4 3/8	7 5/32	13 1/16	1 1/32	5/8	15.43
3/4	16	11 5/32	2 3/4	3 17/32	2 1/16	2 7/16	4 31/32	8	14 11/16	1 3/32	13/16	20.3

CAD INFO

Green Pin® Self Locking Hook E RT GR10

Grade 100 eye self locking hook with recessed trigger

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

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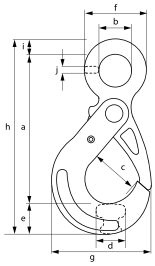


for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
1/4 - 5/16	2.6	5 11/32	1 3/16	1 11/16	15/16	1 3/32	2 1/4	3 19/32	7	9/16	9/32	1.98
3/8	4	6 5/8	1 13/32	1 7/8	1 1/4	1 11/32	2 11/16	4 3/8	8 19/32	5/8	13/32	3.9
1/2	6.8	7 29/32	1 27/32	2 15/32	1 15/32	1 11/16	3 7/16	5 9/16	10 13/32	25/32	1/2	7.36
5/8	10.3	9 7/8	2 3/8	2 15/16	1 11/16	2 7/32	4 3/8	7 5/32	13 1/16	1 1/32	5/8	15.39
3/4	16	11 5/32	2 3/4	3 17/32	2 1/16	2 7/16	4 31/32	8	14 11/16	1 3/32	25/32	20.3

CAD INFO

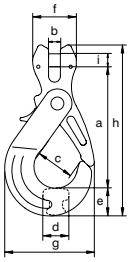
Green Pin® Self Locking Hook CL GR10

Grade 100 clevis self locking hook

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UXLC



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
	metric	a	b	c	d	e	f	g	h	i	
inch	t	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
7/32	1.4	3 21/32	9/32	1 1/4	21/32	15/16	1 3/32	2 15/16	5 1/8	5/16	1.08
1/4	1.95	4 9/16	11/32	1 11/16	15/16	1 3/32	1 1/4	3 19/32	6 11/32	13/32	2.01
5/16	2.6	4 9/16	11/32	1 11/16	15/16	1 3/32	1 1/4	3 19/32	6 11/32	13/32	2.01
3/8	4	5 21/32	7/16	1 7/8	1 1/4	1 11/32	1 21/32	4 13/32	7 29/32	1/2	3.84
1/2	6.8	6 21/32	19/32	2 15/32	1 15/32	1 23/32	2 1/8	5 9/16	9 17/32	5/8	7.34
5/8	10.3	8 1/32	23/32	2 15/16	1 11/16	2 7/32	2 11/16	7 5/32	11 21/32	25/32	14.88
3/4	16	9 7/32	7/8	3 17/32	2 1/16	2 7/16	3 7/32	8 1/16	13 7/16	15/16	21.1

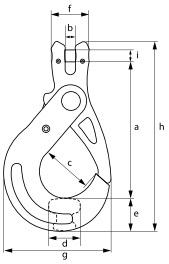
CAD INFO

Green Pin® Self Locking Hook CL RT GR10

Grade 100 clevis self locking hook with recessed trigger

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UXLCRT



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
	metric	a	b	c	d	e	f	g	h	i	
inch	t	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
1/4	1.95	4 9/16	11/32	1 11/16	15/16	1 3/32	1 1/4	3 19/32	6 11/32	13/32	1.98
5/16	2.6	4 9/16	11/32	1 11/16	15/16	1 3/32	1 1/4	3 19/32	6 11/32	13/32	1.98
3/8	4	5 21/32	15/32	1 7/8	1 1/4	1 11/32	1 21/32	4 13/32	7 29/32	1/2	3.79
1/2	6.8	6 21/32	19/32	2 15/32	1 15/32	1 23/32	2 1/8	5 9/16	9 17/32	5/8	7.3
5/8	10.3	8 1/32	3/4	2 15/16	1 11/16	2 7/32	2 11/16	7 5/32	11 21/32	25/32	14.84
3/4	16	9 7/32	29/32	3 17/32	2 1/16	2 7/16	3 7/32	8 1/16	13 7/16	15/16	21.1

CAD INFO

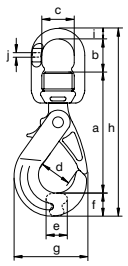
Scan for additional product details

Green Pin® Self Locking Hook SE GR10

Grade 100 swivel self locking hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearings to enable rotation under load

UXLE



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	1.4	4 27/32	1 5/16	1 1/4	1 1/4	21/32	15/16	2 15/16	7 17/32	15/32	1/4	1.72
1/4 - 5/16	2.6	5 7/8	1 5/8	1 15/32	1 11/16	15/16	1 3/32	3 19/32	9 1/8	9/16	5/16	3.06
3/8	4	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 11/32	4 13/32	11 5/32	5/8	7/16	5.64
1/2	6.8	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 23/32	5 9/16	13 9/32	13/16	9/16	10.05
5/8	10.3	10 3/4	2 5/8	2 7/8	2 15/16	1 11/16	2 7/32	7 5/32	16 17/32	31/32	21/32	20.9
3/4	16	11 31/32	3 7/16	3 7/32	3 17/32	2 1/16	2 7/16	8 1/16	18 13/16	31/32	7/8	27.3

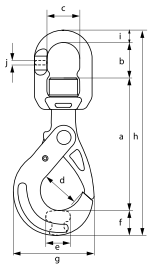
CAD INFO

Green Pin® Self Locking Hook SE RT GR10

Grade 100 swivel self locking hook with recessed trigger

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearings to enable rotation under load

UXLERT



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
1/4 - 5/16	2.6	5 7/8	1 5/8	1 15/32	1 11/16	15/16	1 3/32	3 19/32	9 1/8	9/16	5/16	3.04
3/8	4	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 11/32	4 13/32	11 5/32	5/8	7/16	5.6
1/2	6.8	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 23/32	5 9/16	13 9/32	13/16	9/16	10.01
5/8	10.3	10 3/4	2 5/8	2 7/8	2 15/16	1 11/16	2 7/32	7 5/32	16 17/32	31/32	21/32	20.9
3/4	16	11 31/32	3 7/16	3 7/32	3 17/32	2 1/16	2 7/16	8 1/16	18 13/16	31/32	13/16	27.3

CAD INFO

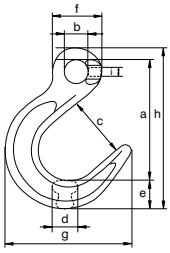
Green Pin® Foundry Hook E GR10

Grade 100 eye foundry hook

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UCFO



for chain diameter	working load limit	length	diameter eye inside	width opening	thickness	width	diameter eye outside	width outside	length	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	1.4	3 21/32	3/4	1 7/8	21/32	13/16	1 1/2	3 13/16	4 7/8	9/32	0.73
1/4 - 5/16	2.6	4 29/32	31/32	2 17/32	7/8	1 3/32	1 31/32	5 3/32	6 1/2	11/32	1.72
3/8	4	6 3/16	1 11/32	3 1/8	1 3/32	1 3/8	2 9/16	6 11/32	8 3/16	7/16	3.31
1/2	6.8	7 15/32	1 23/32	3 3/4	1 3/8	1 25/32	3 5/16	7 25/32	10 1/32	1/2	6.61

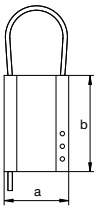
Scan for additional product details

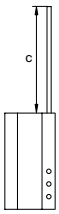
Green Pin® ID Tag

Aluminium identification tag

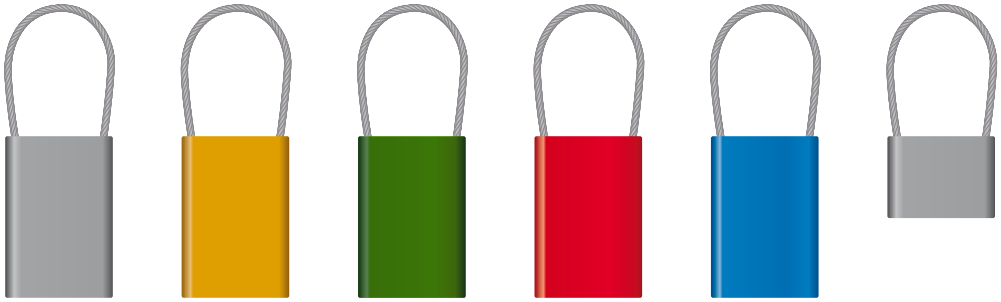
- **Material:** aluminium
- **Finish:** see table below
- **Certification:** 2.1

TAG





partnumber	finish	width	length	length	weight each
		a inch	b inch	c inch	lbs
TAGVIERGE	self-coloured	2	3	8 21/32	0.15
TAGJ	anodized yellow	2	3	8 21/32	0.15
TAGGREEN	anodized green	2	3	8 21/32	0.15
TAGRED	anodized red	2	3	8 21/32	0.15
TAGBLUE	anodized blue	2	3	8 21/32	0.15
TAGDEMI	self-coloured	2	1 1/2	8 21/32	0.09
TAGB without wire rope	self-coloured	2	3		0.13



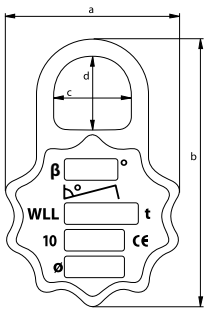
TAGVIERGE TAGJ TAGGREEN TAGRED TAGBLUE TAGDEMI

Green Pin® ID Tag for Grade 10 Slings

Forged identification tag for grade 100 slings

- **Material:** drop forged mild steel
- **Finish:** electro galvanized
- **Certification:** 2.1

UTAGF



width	length	width inside	length inside	weight each
a inch	b inch	c inch	d inch	lbs
3 1/8	4 3/4	1 3/8	1 1/4	0.66

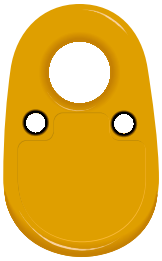
RFID

Scan for additional product details

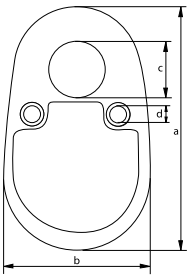
Green Pin® RFID Tag

Accessory for radio-frequency identification of slings

- **Material:** stainless steel
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Finish:** polymer
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
2 3/32	1 5/16	15/32	5/32	3.97

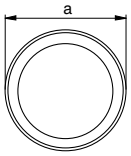
RFID INFO

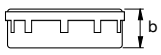
Green Pin® RFID Chip

Accessory for radio-frequency identification of slings

- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof

CHIPRFID





diameter	thickness	weight per 100 pcs
a inch	b inch	lbs
1/4	3/32	0.04

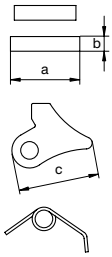
RFID INFO

Green Pin® Self Locking Hooks GR8/GR10 Spare Kit

Replacement kit for grade 80 and 100 self locking hooks

- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier

VR



partnumber	length pin	diameter pin	width	weight each
	a inch	b inch	c inch	lbs
VR1	7/8	1/4	1 3/32	0.04
VR2	1 1/32	1/4	1 7/32	0.07
VR3	1 1/4	5/16	1 15/32	0.11
VR4	1 9/16	13/32	1 27/32	0.22
VR5	2 5/32	13/32	2 9/32	0.44

partnumber	for fitting		
	UXLO	UXLC	UXLE
VR1	GPUXLO0	GPUXLC0	GPUXLE0
VR2	GPUXLO1	GPUXLC07	GPUXLE1
		GPUXLC1	
VR3	GPUXLO2	GPUXLC2	GPUXLE2
VR4	GPUXLO3	GPUXLC3	GPUXLE3
VR5	GPUXLO4	GPUXLC4	GPUXLE4
	GPUXLO5	GPUXLC5	GPUXLE5

INFO

Green Pin® Self Locking Hooks RT GR10 Spare Kit

Replacement kit for grade 100 self locking hooks with recessed trigger

- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier

VRRT

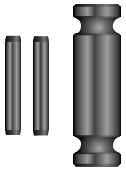
partnumber	length pin	diameter pin	width	weight each
	a inch	b inch	c inch	lbs
GPVR2RT	1 1/32	1/4	1 7/32	0.07
GPVR3RT	1 1/4	5/16	1 15/32	0.11
GPVR4RT	1 9/16	13/32	1 27/32	0.22
GPVR5RT	2 5/32	13/32	2 9/32	0.44

partnumber	for fitting		
	UXLORT	UXLCRT	UXLERT
GPVR2RT	GPUXLO1RT	GPUXLC1RT	GPUXLE1RT
GPVR3RT	GPUXLO2RT	GPUXLC2RT	GPUXLE2RT
GPVR4RT	GPUXLO3RT	GPUXLC3RT	GPUXLE3RT
GPVR5RT	GPUXLO4RT	GPUXLC4RT	GPUXLE4RT
	GPUXLO5RT	GPUXLC5RT	GPUXLE5RT

INFO

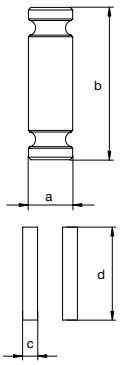
Green Pin® Clevis Fittings GR10 Spare Kit

Grade 100 spare kit for clevis fittings



- **Material:** alloy steel, grade 100, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB

UAC

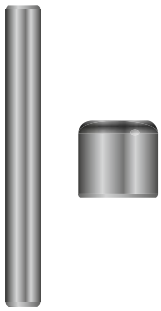


partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPUAC6	5/16	1 3/32	1/8	9/16	0.02
GPUAC7	13/32	1 1/4	1/8	7/8	0.04
GPUAC8	13/32	1 1/4	1/8	7/8	0.04
GPUAC10	1/2	1 5/8	5/32	15/16	0.09
GPUAC13	5/8	2 3/32	5/32	1 3/16	0.18
GPUAC16	25/32	2 19/32	3/16	1 3/8	0.35
GPUAC20	15/16	3 5/32	1/4	1 25/32	0.62

partnumber	for fitting						
	UMP	UCO	UCSC	UXLC	UGC	UGCV	UXLCRT
GPUAC6	GPUMP6	GPUCO6	GPUCSC6	GPUXLC0	GPUGC6	GPUGCV6	
GPUAC7	GPUMP7	GPUCO7	GPUCSC7	GPUXLC07	GPUGC7		GPUXLC07RT
GPUAC8	GPUMP8	GPUCO8	GPUCSC8	GPUXLC1	GPUGC8	GPUGCV8	GPUXLC1RT
GPUAC10	GPUMP10	GPUCO10	GPUCSC10	GPUXLC2	GPUGC10	GPUGCV10	GPUXLC2RT
GPUAC13	GPUMP13	GPUCO13	GPUCSC13	GPUXLC3	GPUGC13	GPUGCV13	GPUXLC3RT
GPUAC16	GPUMP16	GPUCO16	GPUCSC16	GPUXLC4	GPUGC16	GPUGCV16	GPUXLC4RT
GPUAC20			GPUCSC20	GPUXLC5	GPUGC20	GPUGCV20	GPUXLC5RT

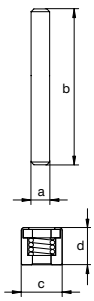
Green Pin® Connecting Link Spare Kit GR10

Grade 100 spare kit for connecting link



- **Material:** alloy steel, grade 100, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB

URMJ

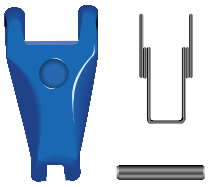


partnumber	diameter pin	length pin	diameter	width	weight each
	a inch	b inch	c inch	d inch	lbs
GPURMJ6	3/16	1 5/8	15/32	13/32	0.02
GPURMJ8	1/4	2 1/8	1/2	9/16	0.04
GPURMJ10	5/16	2 19/32	5/8	23/32	0.04
GPURMJ13	13/32	3 5/16	7/8	7/8	0.11
GPURMJ16	15/32	4 1/8	31/32	31/32	0.22
GPURMJ20	19/32	4 13/16	1 3/32	1 1/4	0.33

partnumber	for fitting
	UMJ
GPURMJ6	GPUMJ6
GPURMJ8	GPUMJ7
	GPUMJ8
GPURMJ10	GPUMJ10
GPURMJ13	GPUMJ13
GPURMJ16	GPUMJ16
GPURMJ20	GPUMJ20

Green Pin® Latch GR10

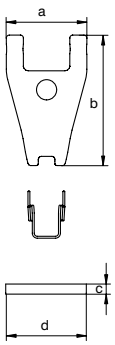
Forged latch for grade 100



- **Material:** steel
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB

partnumber	width	length	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPULF0	15/16	1 23/32	5/32	15/16	0.07
GPULF1	1 7/32	2 5/16	3/16	1 3/16	0.15
GPULF2	1 5/8	2 9/16	3/16	1 9/16	0.24
GPULF3	1 5/8	3 1/8	1/4	1 9/16	0.4
GPULF4	1 13/16	3 3/16	1/4	1 25/32	0.44
GPULF5	1 31/32	3 15/16	5/16	1 31/32	0.88

ULF



partnumber	for fitting	
	UCSO	UCSC
GPULF0	GPUCSO6	GPUCSC6
GPULF1	GPUCSO8	GPUCSC7
		GPUCSC8
GPULF2	GPUCSO10	GPUCSC10
GPULF3	GPUCSO13	GPUCSC13
GPULF4	GPUCSO16	GPUCSC16
GPULF5	GPUCSO20	GPUCSC20

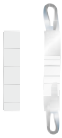
LIFTING SLING FITTINGS

FOR GREEN PIN TYCAN® CHAIN

Applications

Green Pin Tycan® fibre chain offers all the performance and flexibility of steel chain but is eight times lighter than steel. A choice of five sizes of lifting chain with matching fittings allows you to manufacture a complete chain assembly with a Working Load Limit of up to 21.2 t. The soft touch and light weight makes Green Pin Tycan® easy to use, allows quicker application and greatly reduces the potential of damage to cargo, a critical factor when handling objects with sensitive surfaces.

For specific product information the following product groups can be found on the mentioned page:

Top links					
UMS page 208	**UMTS** page 209	**UMSW** page 210	**UMTSW** page 211		
Connectors					
UMJT page 212	**UMJ** page 213				
Chain					
FCHLIFT page 214	 **SLEEVE** page 214				

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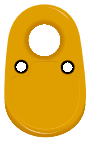
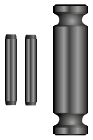
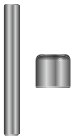
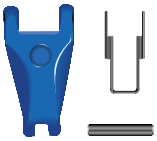
Shorteners					
UCRCT page 215					
End-fittings					
UCSO page 216	**UCSCT** page 216	**UXLO** page 217	**UXLORT** page 217	**UXLE** page 218	**UXLERT** page 218
Accessories					
TAG page 219	**UTAGF** page 219	 **TAGRFID** page 220	**CHIPRFID** page 220	**VR** page 221	**VRRT** page 221
 **UACT** page 222	**UALT** page 222	 **URMJ** page 223	 **ULF** page 223		

Range

Green Pin® supplies a range of grade 100 Green Pin Tycan® chain fittings, specially developed for use with Green Pin Tycan®, include a connecting link, a shortening hook and a sling hook. The clevis of the hooks and the bearing surface of the connecting link have been specially designed to perfectly fit Green Pin Tycan® chain links. This guarantees safe assembly of the chain and its fittings. Chain fittings for chain sizes 11x15 (2.6 t) up to 15x40 (10.3 t).

Below Green Pin Tycan® lifting sling fittings can be found:
- Links, e.g. Green Pin® Master Link, Green Pin Tycan® Connecting Link
- Chain, e.g. Green Pin Tycan® Lifting Chain
- Hooks, e.g. Green Pin Tycan® Sling Hook, Green Pin Tycan® Grab Hook

Design

Green Pin Tycan® Connecting Link and Green Pin Tycan® Sling Hook, Green Pin Tycan® Grab Hook with clevis connection are supplied unassembled and ready for immediate use. Assembly is quick and easy.

Possibility to shorten Green Pin Tycan® fibre chain sling by means Green Pin Tycan® Grab Hook.

Grade 100 lifting sling fittings specially designed for Tycan® fibre chain are marked with:
- manufacturer's symbol - e.g. GP
- size in mm - e.g. 30
- traceability code - e.g. HA
- steel grade - e.g. 10
- item code (specific products) - e.g. UMJT
- origin (specific products) - e.g. France

As prescribed by the Machinery Directive 2006/42/EC our hooks, master links and connecting links are supplied with a CE Declaration of Incorporation (CE IIB), stating the products are in compliance with the requirements of the machinery directive. These products do not have a CE marking, since CE markings are only to be provided for machines, whereas hooks, master links and connecting links are components of machines, and not machines themselves. Providing components with a CE marking is an incorrect interpretation of the Machinery Directive.

Machinery definition according to Machinery Directive 2006/42/EC – Article 2 – definitions (a) and Machinery Regulation 2023/1230/EU:

"An assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort."

"The maximum working load shall be prominently marked on the lifting machinery. The marking shall be legible, indelible and in an un-coded form. Where the maximum working load depends on the configuration of the lifting machinery, each operating position shall be provided with a load plate indicating, preferably in diagrammatic form or by means of tables, the working load permitted for each configuration."

This definition means that a sling is a Machine and that the hooks, master links and connecting links are not considered as a machine themselves, but as components of a machine. The CE and the WLL markings in consequence, are mandatory only on the assembled sling tag as the sling is the machine according to MD 2006/42/EC. This rule is still valid with the new Machine Regulation 2023/1230 which will replace the MD cited previously within early 2027.

Finish

All grade 100 Green Pin Tycan® lifting sling fittings are painted. Grade 100 Green Pin Tycan® lifting fittings are painted blue. The same colour as our other Grade 100 lifting sling fittings for steel chain.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements with Green Pin® at the time of order.

Instructions for use

Grade 100 Green Pin Tycan® lifting sling fittings should be inspected before use to ensure that:

- all markings are legible.
- all lifting sling fittings of the complete sling are made of the same steel grade 100.
- a lifting sling fitting with the correct WLL has been selected with respect to the sling design. For further details, refer to the EN 818-4 with values for grade 100 and ASME B30.9 standard for Chain Slings.
- the pin, bolt, nut, bush or any other locking system cannot move or vibrate out of position.
- lifting sling fittings are free from nicks, gouges, and cracks.
- lifting sling fittings are not heat treated, modified, repaired, or reshaped by machining or bent. (This may affect their Working Load Limit).
- lifting sling fittings items are not distorted or unduly worn. (Maximum allowable wear is 10 % of the original diameter).
- the latch of the hook(s) is present and functional.
- the hook is never side-, tip- or back- loaded.
- the hook is supporting the load correctly.
- the latch should not be supporting any load.
- only use the lifting sling fittings for in-line lifting.

Grade 100 Green Pin Tycan® lifting sling fittings must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse, and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use), and more frequently when the links are used in severe operating conditions.

For Green Pin Tycan® Lifting Chain is a specific user manual available, please find the digital user manual on **greenpin.com/faq**.

Testing

Generally load rated products are proof load and MPI tested.
For specific information on certificates, we refer to the separate paragraph on certification.

Grade 100 Green Pin Tycan® lifting sling fittings are proof load tested at the following loads:

for link size	Working Load Limit (WLL)	Proofload* (PL)
inch	metric t	metric t
$^{7}/_{16}$ x $^{19}/_{32}$	2.6	6.5
$^{7}/_{16}$ x $^{25}/_{32}$	4	10
$^{19}/_{32}$ x 1	5	12.5
$^{1}/_{2}$ x 1 $^{3}/_{16}$	6.8	17
$^{19}/_{32}$ x 1 $^{9}/_{16}$	10.3	25.75

* The Green Pin Tycan® chain itself has a proof load of 2 times the WLL

Temperature

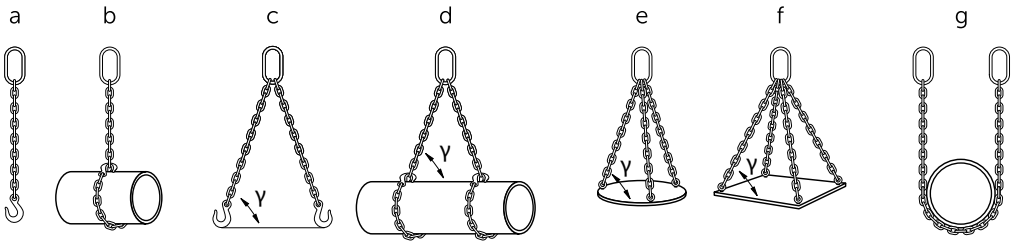
The Green Pin Tycan® lifting fibre chain temperature range is -40 °F up to +158 °F. This chain cannot be used above +158 °F.

Green Pin Tycan® lifting assembly fittings

Below, you can find an overview of the complete lifting system and complementary products currently on offer, including the article codes for individual components.

		2.6 metric t WLL (1 leg sling)	4 metric t WLL (1 leg sling)	5 metric t WLL (1 leg sling)	6.8 metric t WLL (1 leg sling)	10.3 metric t WLL (1 leg sling)
Master links	UMS UMTS	GPUMS18 (5,4 t) GPUMTS22 (6,5 t)	GPUMS22 (8,2 t) GPUMTS28 (11 t)	GPUMS22 (8,2 t) GPUMTS28 (11 t)	GPUMS25 (11,2 t) GPUMTS36 (17,5 t)	GPUMS30 (16 t) GPUMTS38 (21,2 t)
Connecting links	UMJT UMJ	GPUMJT15	GPUMJT20	GPUMJ13	GPUMJT30	GPUMJT40
Shorteners	UCRCT	GPUCRCT15	GPUCRCT20	GPUCRCT25	GPUCRCT30	GPUCRCT40
Chain	FCHLIFT	FCHLIFT1115	FCHLIFT1120	FCHLIFT1525	FCHLIFT1330	FCHLIFT1540
Sleeve	SLEEVE	SLEEVE111550	SLEEVE112050	SLEEVE152550	SLEEVE133050	SLEEVE154050
Hooks	UCSCT	GPUCSCT15	GPUCSCT20	GPUCSCT25	GPUCSCT30	GPUCSCT40

Working load limit table for Green Pin Tycan® chain slings (US)

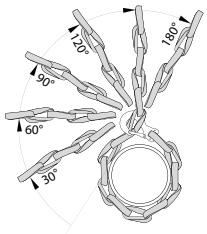


1 leg chain | 2 leg chains | 3 and 4 leg chains | U shape

Type of hitch		a	b	c			d e			f
Angle of inclination (γ)		-*	-	90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	-**
Load factor		1	0.8	1.73	1.4	1	2.6	2.1	1.5	1.5
Working Load Limit (metric t)	7/16 x 19/32	2.6	2.08	4.50	3.6	2.6	6.71	5.46	3.9	3.9
	7/16 x 25/32	4	3.2	6.92	5.6	4	10.39	8.4	6.0	6.0
	19/32 x 1	5	4.0	8.65	7.0	5	8.65	10.5	7.5	7.5
	1/2 x 1 3/16	6.8	5.44	11.76	9.52	6.8	17.69	14.28	10.2	10.2
	19/32 x 1 9/16	10.3	8.2	17.82	14.4	10.3	26.63	21.2	15.5	15.5

When using multi leg slings make sure that the angles between the lifting points and sling legs are within the range marked on the sling. The horizontal angle, which is the angle between the sling leg and the horizontal, should never be smaller than 30°.

* See below capacity reduction table of angles of choke less than 120°
** See below capacity reduction table for non-vertical chain sling legs

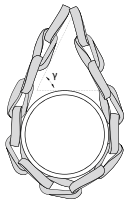


Angle of Choke	Rated load of single leg chain sling	Rated load (t) of single leg chain sling				
	%	$^{7}/_{16}$ x $^{19}/_{32}$	$^{7}/_{16}$ x $^{25}/_{32}$	$^{19}/_{32}$ x 1	$^{1}/_{2}$ x 1 $^{3}/_{16}$	$^{19}/_{32}$ x 1 $^{9}/_{16}$
120°-180°	80	2.08	3.20	4.00	5.44	8.24
90°-119°	65	1.69	2.60	3.25	4.42	6.70
60°-89°	55	1.43	2.20	2.75	3.74	5.6
30°-59°	40	1.04	1.60	2.00	2.75	4.12

In a choker configuration you can use two different choker connections:

The hook attached to a link,
called anchored basket hitch.

The hook around a link,
called traditional choker hitch.



Angle ß	Rated load	Min. dia.	Rated load (t)				
	%	inch	$^{7}/_{16}$ x $^{19}/_{32}$	$^{7}/_{16}$ x $^{25}/_{32}$	$^{19}/_{32}$ x 1	$^{1}/_{2}$ x 1 $^{3}/_{16}$	$^{19}/_{32}$ x 1 $^{9}/_{16}$
90°-85°	150	120	3.90	6.00	7.50	12.20	15.45
84°-60°	135	120	3.51	5.40	6.75	9.18	13.91
59°-45°	120	120	3.12	4.80	6.00	8.16	12.36
44°-30°	100	120	2.60	4.00	5.00	6.80	10.30

Connect Green Pin Tycan® Lifting Chain to Green Pin Tycan® lifting sling fittings or to certified components with a maximum surface roughness of 5 microns and adhering to below values:

link size	Working Load Limit	minimum pin diameter	minimum clevis width	maximum clevis width
inch	metric t	inch	inch	inch
$^{7}/_{16}$ x $^{19}/_{32}$	2.6	13	15.5	18
$^{7}/_{16}$ x $^{25}/_{32}$	4	16	20.5	24
$^{19}/_{32}$ x 1	5	16	26	31
$^{1}/_{2}$ x 1 $^{3}/_{16}$	6.8	20	31	37
$^{19}/_{32}$ x 1 $^{9}/_{16}$	10.3	24	41	48

Configuration examples

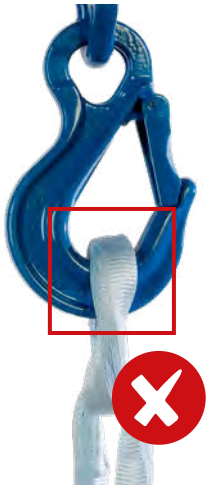
1 leg chain

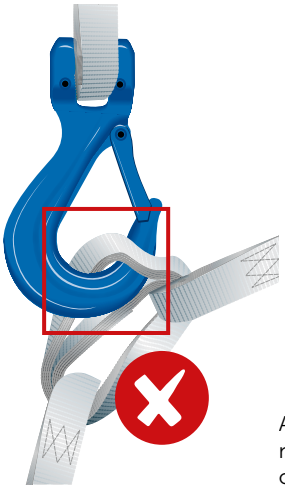
2 leg chain

3 and 4 leg chain

Examples of do's and don'ts

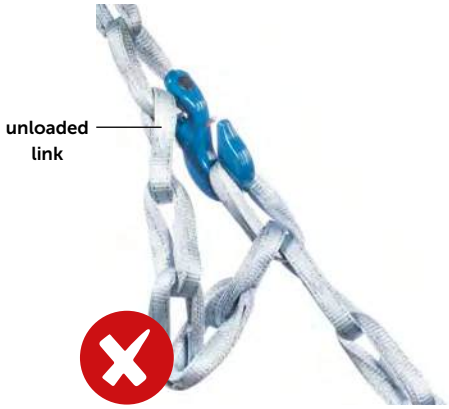
Connecting Green Pin Tycan® Lifting Chain directly into hooks (components) where the width/clevis is more than required maximum clevis width is not acceptable. Doing so can cause the layers to spread apart, which in the utmost consequence could have a negative effect on the strength of the chain.
The only exception is in a anchored basket hitch.





Also make sure that the hook is not hooked in between the layers of the Green Pin Tycan® link.

The unloaded link must never be placed between the loaded link and the body hook.



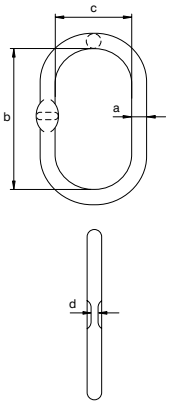
Green Pin® Master Link GR10

Grade 100 master link

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMS



diameter	diameter Tycan® chain 1 leg	diameter Tycan® chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a		90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	metric	b	c	d	
inch	inch	inch	inch	inch	t	inch	inch	inch	lbs
23/32	7/16 x 19/32	7/16 x 19/32	7/16 x 19/32	7/16 x 19/32	5.4	5 5/16	2 15/16	11/32	1.85
7/8	7/16 x 25/32 - 19/32 x 1	7/16 x 25/32	7/16 x 25/32 - 19/32 x 1	7/16 x 25/32 - 19/32 x 1	8.2	6 11/16	3 17/32	7/16	3.53
31/32	1/2 x 1 3/16	19/32 x 1	1/2 x 1 3/16	1/2 x 1 3/16	11.2	7 15/32	4 1/16	9/16	4.78
1 3/16	19/32 x 1 9/16	-	19/32 x 1 9/16	19/32 x 1 9/16	16	9 1/4	4 29/32	21/32	8.82
1 1/2	19/32 x 1 9/16	19/32 x 1 9/16	19/32 x 1 9/16	19/32 x 1 9/16	27.6	9 27/32	5 29/32	7/8	15.65

CAD

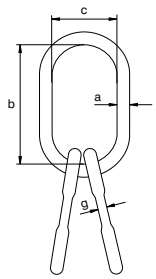
Green Pin® Master Link Assembly GR10

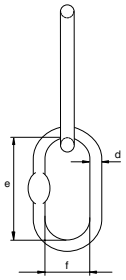
Grade 100 master link assembly

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMTS





diameter	diameter Tycan® chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° γ ≥ 60° inch	60°> γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
7/8	7/16 x 19/32	7/16 x 19/32	7/16 x 19/32	6.8	6 11/16	3 17/32	23/32	5 5/16	2 15/16	11/32	7.28
1 3/32	7/16 x 25/32 - 19/32 x 1	7/16 x 25/32 - 19/32 x 1	7/16 x 25/32 - 19/32 x 1	11	8 7/32	4 23/32	25/32	5 29/32	3 7/32	7/16	11.9
1 13/32	1/2 x 1 3/16	1/2 x 1 3/16	1/2 x 1 3/16	17.7	10 5/8	5 23/32	31/32	7 15/32	4 1/16	9/16	24.7
1 1/2	-	19/32 x 1 9/16	19/32 x 1 9/16	21.2	9 27/32	5 29/32	1 3/16	9 1/4	4 29/32	21/32	33.3

CAD

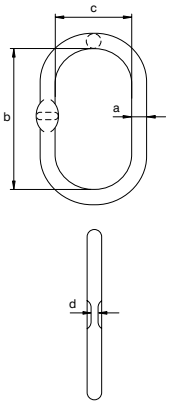
Green Pin® Wider Master Link GR10

Grade 100 wider master link

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMSW



diameter	diameter Tycan® chain 1 leg	diameter Tycan® chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a inch	inch	90° γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	lbs
21/32	7/16 x 19/32	-	7/16 x 19/32	7/16 x 19/32	4.1	6 5/16	3 17/32	11/32	1.87
3/4	7/16 x 25/32	7/16 x 19/32	7/16 x 25/32	7/16 x 25/32	6.7	6 5/16	3 17/32	11/32	2.38
31/32	19/32 x 1 - 1/2 x 1 3/16	19/32 x 1	19/32 x 1 - 1/2 x 1 3/16	19/32 x 1 - 1/2 x 1 3/16	11.5	8 9/32	4 17/32	1/2	5.36
1 5/16	19/32 x 1 9/16	1/2 x 1 3/16	19/32 x 1 9/16	19/32 x 1 9/16	17	10 5/8	5 1/2	21/32	11.9

CAD

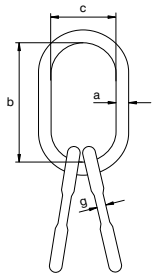
Green Pin® Wider Master Link Assembly GR10

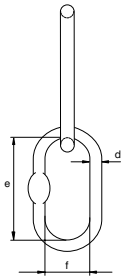
Grade 100 wider master link assembly

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMTSW





diameter	diameter chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° γ ≥ 60° inch	60°> γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
3/4	-	-	7/16 x 19/32	4.3	6 5/16	3 17/32	9/16	4 23/32	2 3/4	11/32	4.32
29/32	-	7/16 x 25/32	7/16 x 25/32	6.7	7 3/32	3 15/16	21/32	6 5/16	3 17/32	11/32	7.72
1 9/16	7/16 x 25/32 - 19/32 x 1	19/32 x 1 9/16	19/32 x 1 9/16	28.1	11 13/16	6 5/16	1 5/16	10 5/8	5 1/2	21/32	43.7

CAD

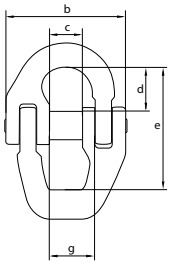
Green Pin Tycan® Connecting Link GR10

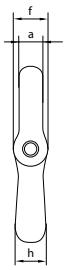
Grade 100 connecting link

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

UMJT





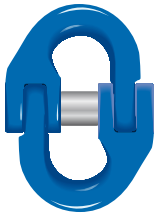
for chain size	working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	diameter	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
7/16 x 19/32	2.6	11/32	2 1/4	9/16	25/32	2 5/32	5/8	3/4	1/2	0.49
7/16 x 25/32	4	15/32	2 19/32	23/32	29/32	2 5/8	23/32	29/32	5/8	0.82
1/2 x 1 3/16	6.8	5/8	3 9/32	13/16	1 1/4	3 7/16	15/16	1 3/32	25/32	1.72
19/32 x 1 9/16	10.3	3/4	4 1/16	1	1 9/16	4 7/32	1 3/32	1 11/32	15/16	3.22

CAD

Green Pin® Connecting Link GR10

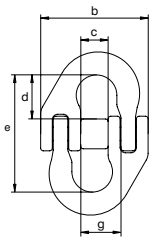
Grade 100 connecting link

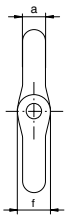
Scan for additional product details »



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UMJ





for chain size	working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
$^{19}/_{32}$ x 1	6.8	$^{5}/_{8}$	3 $^{9}/_{32}$	$^{13}/_{16}$	1 $^{1}/_{4}$	3 $^{11}/_{32}$	$^{15}/_{16}$	1 $^{3}/_{32}$	1.5

CAD INFO

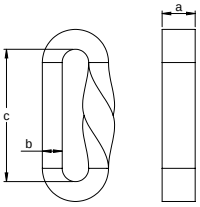
Scan for additional product details

Green Pin Tycan® Lifting Chain

Lifting chain made from Dyneema®

- **Material:** made from 100 % Dyneema®; layers of webbing in a Mobius twist with stitching on each side
- **Safety factor:** MBL equals 4 x WLL
- **Temperature range:** -40 °F up to +158 °F
- **Certification:** 2.1 2.2 MTC [b] DNV TA DNV TQ CE IIA
- **Article code:** scan QR code to see article codes

FCHLIFT



link size	working load limit	width link	thickness link	length inside	links per foot	elongation at MBL	weight per meter	layers
inch	metric t	a inch	b inch	c inch		%	lbs	
7/16 x 19/32	2.6	19/32	7/16	3 15/16	3	5	0.71	6
7/16 x 25/32	4	25/32	7/16	3 15/16	3	5	1.04	6
19/32 x 1	5	31/32	19/32	3 15/16	3	5	1.28	8
1/2 x 1 3/16	6.8	1 3/16	1/2	4 29/32	2.4	5	1.65	7
19/32 x 1 9/16	10.3	1 9/16	19/32	6 7/8	1.8	5	2.47	7

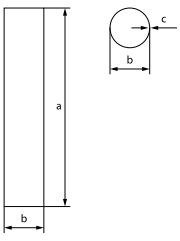
CAD INFO

Green Pin Tycan® Sleeve

Sleeve made from Dyneema®

- **Material:** 100 % Dyneema
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes

SLEEVE



for chain size	length	diameter	thickness	weight each
inch	a inch	b inch	c inch	lbs
7/16 x 19/32	19 11/16	1 9/16	1/32	0.09
7/16 x 25/32	19 11/16	1 31/32	1/32	0.11
19/32 x 1	19 11/16	2 3/8	1/32	0.09
1/2 x 1 3/16	19 11/16	2 9/16	1/32	0.13
19/32 x 1 9/16	19 11/16	2 15/16	1/32	0.22

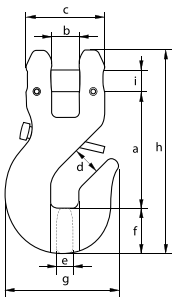
INFO

Green Pin Tycan® Grab Hook CL GR10

Grade 100 clevis grab hook

Scan for additional product details

UCRCT



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL and MBL equals 2 x Lashing Capacity
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

for chain size	working load limit	length	width	width outside	opening	thickness	width	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/16 x 19/32	2.6	2 17/32	21/32	1 23/32	19/32	1/2	29/32	2 9/16	4 9/32	1/2	1.21
7/16 x 25/32	4	3 3/16	7/8	2 1/4	25/32	5/8	1 5/32	3 11/32	5 7/16	5/8	2.27
19/32 x 1	5	4 1/32	15/16	2 11/16	31/32	5/8	1 9/16	3 29/32	7	25/32	4.41
1/2 x 1 3/16	6.8	3 15/16	1 1/4	2 29/32	1 3/16	25/32	1 9/16	4 1/32	6 31/32	25/32	4.28
19/32 x 1 9/16	10.3	5 1/32	1 21/32	3 25/32	1 9/16	15/16	1 3/4	5	8 17/32	15/16	7.43

CAD INFO

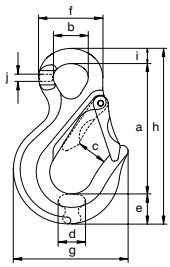
Green Pin® Sling Hook E GR10

Grade 100 eye sling hook

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 10 t without flat part

UCSO



for chain size	working load limit	length	diameter inside eye	width opening	thickness	width	diameter eye outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/16 x 19/32	2.6	4 1/16	1 1/32	1 3/16	3/4	15/16	2	3 7/16	5 15/32	15/32	5/16	1.15
7/16 x 25/32	4	5 3/32	1 13/32	1 5/16	15/16	1 3/32	2 9/16	4 3/16	6 23/32	19/32	13/32	2.4
19/32 x 1 - 1/2 x 1 3/16	6.8	5 31/32	1 5/8	1 15/32	1 1/4	1 17/32	3 1/32	5 1/4	8 7/32	23/32	15/32	4.28
19/32 x 1 9/16	10.3	7 17/32	2 1/16	1 11/16	1 9/16	1 11/16	3 11/16	6 1/2	10 1/32	13/16	21/32	7.74

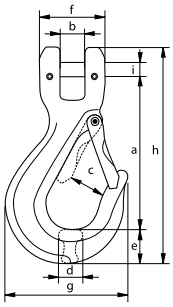
CAD INFO

Green Pin Tycan® Sling Hook CL GR10

Grade 100 clevis sling hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

UCSCT



for chain size	working load limit	length	width	width opening	thickness	width	width outside	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/16 x 19/32	2.6	4 13/32	21/32	1 3/16	25/32	15/16	1 23/32	3 7/16	6 7/32	1/2	1.59
7/16 x 25/32	4	5 1/8	7/8	1 11/32	15/16	1 3/32	2 1/4	4 3/16	7 5/16	5/8	2.89
19/32 x 1	5	5 29/32	15/16	1 15/32	1 5/32	1 3/8	2 11/16	4 27/32	8 21/32	25/32	4.74
1/2 x 1 3/16	6.8	6 1/4	1 1/4	1 15/32	1 1/4	1 17/32	2 29/32	5 1/4	9 1/4	25/32	5.64
19/32 x 1 9/16	10.3	7 9/32	1 21/32	1 25/32	1 9/16	1 11/16	3 25/32	6 1/2	10 21/32	15/16	9.37

CAD INFO

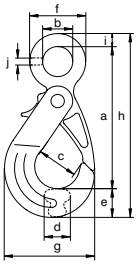
Scan for additional product details »

Green Pin® Self Locking Hook E GR10

Grade 100 eye self locking hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UXLO



for chain size	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/16 x 19/32	2.6	5 11/32	1 3/16	1 11/16	15/16	1 3/32	2 1/4	3 19/32	7	9/16	5/16	2.01
7/16 x 25/32	4	6 5/8	1 13/32	1 7/8	1 1/4	1 11/32	2 11/16	4 11/32	8 19/32	5/8	13/32	3.95
19/32 x 1 - 1/2 x 1 3/16	6.8	7 29/32	1 27/32	2 15/32	1 15/32	1 11/16	3 7/16	5 9/16	10 13/32	25/32	1/2	7.41
19/32 x 1 9/16	10.3	9 7/8	2 3/8	2 15/16	1 11/16	2 7/32	4 3/8	7 5/32	13 1/16	1 1/32	5/8	15.43

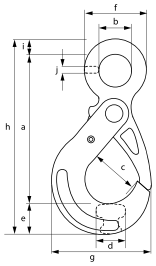
CAD INFO

Green Pin® Self Locking Hook E RT GR10

Grade 100 self locking hook E RT

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UXLORT



for chain size	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/16 x 19/32	2.6	5 11/32	1 3/16	1 11/16	15/16	1 3/32	2 1/4	3 19/32	7	9/16	9/32	1.98
7/16 x 25/32	4	6 5/8	1 13/32	1 7/8	1 1/4	1 11/32	2 11/16	4 3/8	8 19/32	5/8	13/32	3.9
19/32 x 1 - 1/2 x 1 3/16	6.8	7 29/32	1 27/32	2 15/32	1 15/32	1 11/16	3 7/16	5 9/16	10 13/32	25/32	1/2	7.36
19/32 x 1 9/16	10.3	9 7/8	2 3/8	2 15/16	1 11/16	2 7/32	4 3/8	7 5/32	13 1/16	1 1/32	5/8	15.39

CAD INFO

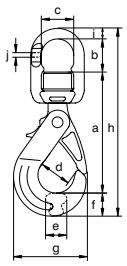
Scan for additional product details

Green Pin® Self Locking Hook SE GR10

Grade 100 self locking hook with swivel

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearings to enable rotation under load

UXLE



for chain size	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/16 x 19/32	2.6	5 7/8	1 5/8	1 15/32	1 11/16	15/16	1 3/32	3 19/32	9 1/8	9/16	5/16	3.06
7/16 x 25/32	4	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 11/32	4 13/32	11 5/32	5/8	7/16	5.64
19/32 x 1 - 1/2 x 1 3/16	6.8	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 23/32	5 9/16	13 9/32	13/16	9/16	10.05
19/32 x 1 9/16	10.3	10 3/4	2 5/8	2 7/8	2 15/16	1 11/16	2 7/32	7 5/32	16 17/32	31/32	21/32	20.9

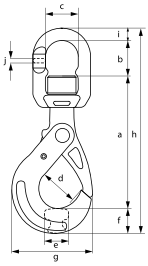
CAD INFO

Green Pin® Self Locking Hook SE RT GR10

Grade 100 swivel self locking hook with recessed trigger

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with thrust needle roller bearings to enable rotation under load

UXLERT



for chain size	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/16 x 19/32	2.6	5 7/8	1 5/8	1 15/32	1 11/16	15/16	1 3/32	3 19/32	9 1/8	9/16	5/16	3.04
7/16 x 25/32	4	7 5/16	1 27/32	1 7/8	1 7/8	1 1/4	1 11/32	4 13/32	11 5/32	5/8	7/16	5.6
19/32 x 1 - 1/2 x 1 3/16	6.8	8 7/16	2 3/8	2 9/32	2 15/32	1 15/32	1 23/32	5 9/16	13 9/32	13/16	9/16	10.01
19/32 x 1 9/16	10.3	10 3/4	2 5/8	2 7/8	2 15/16	1 11/16	2 7/32	7 5/32	16 17/32	31/32	21/32	20.9

CAD INFO

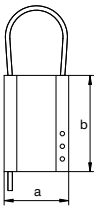
Scan for additional product details

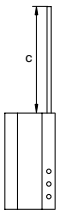
Green Pin® ID Tag

Aluminium identification tag

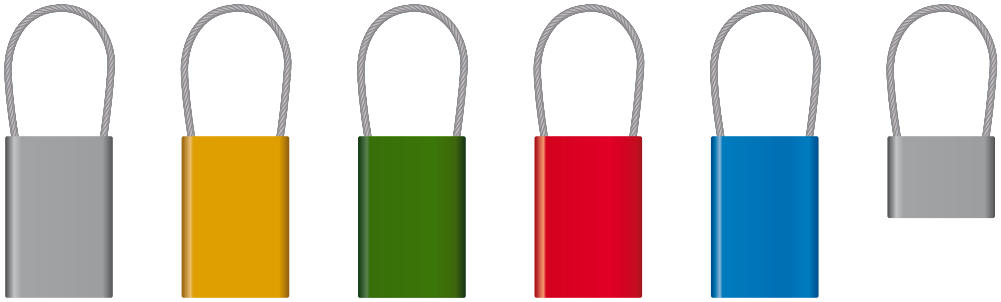
- **Material:** aluminium
- **Finish:** see table below
- **Certification:** 2.1

TAG





partnumber	finish	width	length	length	weight each
		a inch	b inch	c inch	lbs
TAGVIERGE	self-coloured	2	3	8 21/32	0.15
TAGJ	anodized yellow	2	3	8 21/32	0.15
TAGGREEN	anodized green	2	3	8 21/32	0.15
TAGRED	anodized red	2	3	8 21/32	0.15
TAGBLUE	anodized blue	2	3	8 21/32	0.15
TAGDEMI	self-coloured	2	1 1/2	8 21/32	0.09
TAGB without wire rope	self-coloured	2	3		0.13



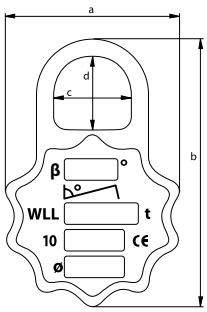
TAGVIERGE TAGJ TAGGREEN TAGRED TAGBLUE TAGDEMI

Green Pin® ID Tag for Grade 10 Slings

Forged identification tag for grade 100 slings

- **Material:** drop forged mild steel
- **Finish:** electro galvanized
- **Certification:** 2.1

UTAGF



width	length	width inside	length inside	weight each
a inch	b inch	c inch	d inch	lbs
3 1/8	4 3/4	1 3/8	1 1/4	0.66

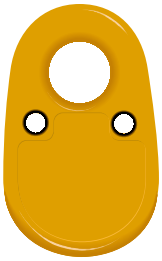
RFID

Scan for additional product details

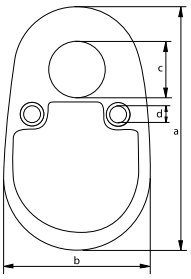
Green Pin® RFID Tag

Accessory for radio-frequency identification of slings

- **Material:** stainless steel
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Finish:** polymer
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
2 3/32	1 5/16	15/32	5/32	3.97

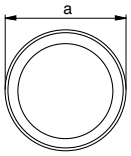
RFID INFO

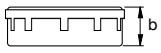
Green Pin® RFID Chip

Accessory for radio-frequency identification of slings

- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof

CHIPRFID





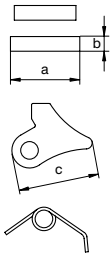
diameter	thickness	weight per 100 pcs
a inch	b inch	lbs
1/4	3/32	0.04

RFID INFO

Green Pin® Self Locking Hooks GR8/GR10 Spare Kit

Replacement kit for grade 80 and 100 self locking hooks

VR



- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier

partnumber	length pin	diameter pin	width	weight each
	a inch	b inch	c inch	lbs
VR1	7/8	1/4	1 3/32	0.04
VR2	1 1/32	1/4	1 7/32	0.07
VR3	1 1/4	5/16	1 15/32	0.11
VR4	1 9/16	13/32	1 27/32	0.22
VR5	2 5/32	13/32	2 9/32	0.44

partnumber	for fitting		
	UXLO	UXLC	UXLE
VR1	GPUXLO0	GPUXLC0	GPUXLE0
VR2	GPUXLO1	GPUXLC07	GPUXLE1
		GPUXLC1	
VR3	GPUXLO2	GPUXLC2	GPUXLE2
VR4	GPUXLO3	GPUXLC3	GPUXLE3
VR5	GPUXLO4	GPUXLC4	GPUXLE4
	GPUXLO5	GPUXLC5	GPUXLE5

INFO

Green Pin® Self Locking Hooks RT GR10 Spare Kit

Replacement kit for grade 100 self locking hooks with recessed trigger

VRRT

- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier

partnumber	length pin	diameter pin	width	weight each
	a inch	b inch	c inch	lbs
GPVR2RT	1 1/32	1/4	1 7/32	0.07
GPVR3RT	1 1/4	5/16	1 15/32	0.11
GPVR4RT	1 9/16	13/32	1 27/32	0.22
GPVR5RT	2 5/32	13/32	2 9/32	0.44

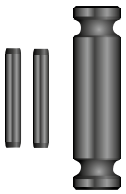
partnumber	for fitting		
	UXLORT	UXLCRT	UXLERT
GPVR2RT	GPUXLO1RT	GPUXLC1RT	GPUXLE1RT
GPVR3RT	GPUXLO2RT	GPUXLC2RT	GPUXLE2RT
GPVR4RT	GPUXLO3RT	GPUXLC3RT	GPUXLE3RT
GPVR5RT	GPUXLO4RT	GPUXLC4RT	GPUXLE4RT
	GPUXLO5RT	GPUXLC5RT	GPUXLE5RT

INFO

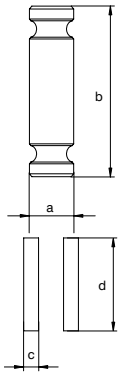
Green Pin Tycan® Clevis Fittings GR10 Spare Kit

Grade 100 spare kit for clevis fittings

- **Material:** alloy steel, grade 100, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB



UACT



partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPUACT15	5/32	15/16	1/2	1 11/16	0.09
GPUACT20	5/32	15/16	5/8	2 7/32	0.18
GPUACT25	3/16	1 3/8	25/32	2 19/32	0.35
GPUACT30	3/16	1 3/8	25/32	2 27/32	0.35
GPUACT40	1/4	1 25/32	15/16	3 11/16	0.35

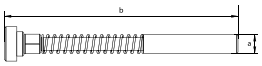
partnumber	for fitting	
	UCSCT	UCRCT
GPUACT15	GPUCSCT15	GPUCRCT15
GPUACT20	GPUCSCT20	GPUCRCT20
GPUACT25		GPUCRCT25
GPUACT30	GPUCSCT30	GPUCRCT30
GPUACT40	GPUCSCT40	GPUCRCT40

Green Pin Tycan® Grab Hook CL GR10 Locking Pin

Grade 100 locking pin for Green Pin Tycan® clevis grab hook

- **Material:** alloy steel, grade 100
- **Finish:** self-coloured
- **Certification:** 2.1 CE IIB

UALT



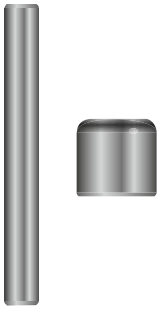
partnumber	diameter pin	length pin	weight each
	a inch	b inch	lbs
GPUALT15	7/32	2 1/16	0.02
GPUALT20	7/32	2 15/32	0.04
GPUALT25	5/16	2 27/32	0.07
GPUALT30	5/16	3 1/32	0.07
GPUALT40	5/16	3 3/4	0.07

partnumber	for fitting
	UCRCT
GPUALT15	GPUCRCT15
GPUALT20	GPUCRCT20
GPUALT25	GPUCRCT25
GPUALT30	GPUCRCT30
GPUALT40	GPUCRCT40

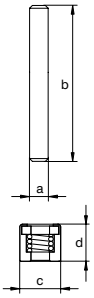
Green Pin® Connecting Link Spare Kit GR10

Grade 100 spare kit for connecting link

- **Material:** alloy steel, grade 100, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB



URMJ



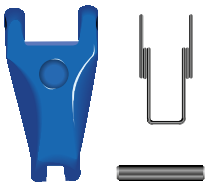
partnumber	diameter pin	length pin	diameter	width	weight each
	a inch	b inch	c inch	d inch	lbs
GPURMJ8	1/4	2 1/8	1/2	9/16	0.04
GPURMJ10	5/16	2 19/32	5/8	23/32	0.04
GPURMJ13	13/32	3 5/16	7/8	7/8	0.11
GPURMJ16	15/32	4 1/8	31/32	31/32	0.22

partnumber	for fitting	
	UMJ	UMJT
GPURMJ8		GPUMJT15
GPURMJ10		GPUMJT20
GPURMJ13	GPUMJ13	GPUMJT30
GPURMJ16		GPUMJT40

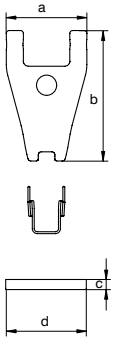
Green Pin® Latch GR10

Forged latch for grade 100

- **Material:** steel
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB



ULF



partnumber	width	length	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPULF1	1 7/32	2 5/16	3/16	1 3/16	0.15
GPULF2	1 5/8	2 9/16	3/16	1 9/16	0.24
GPULF3	1 5/8	3 1/8	1/4	1 9/16	0.4
GPULF4	1 13/16	3 3/16	1/4	1 25/32	0.44

partnumber	for fitting	
	UCSO	UCSCT
GPULF1	GPUCSO8	GPUCSCT15
GPULF2	GPUCSO10	GPUCSCT20 - GPUCSCT25
GPULF3	GPUCSO13	GPUCSCT30
GPULF4	GPUCSO16	GPUCSCT40

LIFTING SLING FITTINGS

FOR SYNTHETIC SLINGS

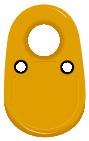
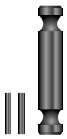
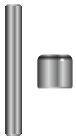
Applications

Green Pin® grade 80 lifting sling fittings for synthetic slings enable the connection with web slings.

For specific product information the following product groups can be found on the mentioned page:

Top links					
MS page 228	**MTS** page 229				
Connectors					
COS page 230	**MJS** page 231				
End-fittings					
XLS page 231					

Table continues on next page

Sling accessories					
E-6110 page 232	**G-6120** page 232	**G-6128** page 233	**E-6131/G-6131** page 234	**S-6134** page 235	**E-6135/G-6135** page 236
G-6170 page 237	**G-6142** page 238	**G-6151** page 239	**P-6190** page 240	**P-6195** page 240	
Accessories					
TAG page 241	 **TAGRFID** page 242	**CHIPRFID** page 242	 **RCOS** page 243	 **RMJ** page 243	

Range

Green Pin® supplies a range of grade 80 lifting sling fittings for synthetic slings for different sizes. The lifting sling fittings are suitable for web slings made according to European standard. See specific lifting sling fitting to know which size fits the web sling.

Design

The Green Pin® lifting sling fittings for synthetic are the ideal fittings for lifting with synthetic round- and/or flat web slings. The optimal bearing surface of body/pin means load on the web sling is distributed equally. Wear of the web sling is also minimized as a result of the smooth finish of the lifting sling fittings result, damage to the web sling is minimized and its lifespan extended.

Grade 80 lifting sling fittings for synthetic are generally marked with:

- manufacturer's symbol - e.g. GP
- size in mm and/ or inch - e.g. 13 and/or $^{1}/_{2}$"
- traceability code - e.g. HA
- steel grade - e.g. 8
- item code (specific products) - e.g. MJS
- origin (specific products) - e.g. France

As prescribed by the Machinery Directive 2006/42/EC our hooks, master links and connecting links are supplied with a CE Declaration of Incorporation (CE IIB), stating the products are in compliance with the requirements of the machinery directive. These products do not have a CE marking, since CE markings are only to be provided for machines, whereas hooks, master links and connecting links are components of machines, and not machines themselves. Providing components with a CE marking is an incorrect interpretation of the Machinery Directive.

Machinery definition according to Machinery Directive 2006/42/EC – Article 2 – definitions (a) and Machinery Regulation 2023/1230/EU:

"An assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort."

"The maximum working load shall be prominently marked on the lifting machinery. The marking shall be legible, indelible and in an un-coded form. Where the maximum working load depends on the configuration of the lifting machinery, each operating position shall be provided with a load plate indicating, preferably in diagrammatic form or by means of tables, the working load permitted for each configuration."

This definition means that a sling is a Machine and that the hooks, master links and connecting links are not considered as a machine themselves, but as components of a machine. The CE and the WLL markings in consequence, are mandatory only on the assembled sling tag as the sling is the machine according to MD 2006/42/EC. This rule is still valid with the new Machine Regulation 2023/1230 which will replace the MD cited previously within early 2027.

Finish

All grade 80 lifting sling fittings for synthetic are painted. Grade 80 lifting sling fittings for synthetic under the Green Pin® brand will be painted white.

Some products are mentioned as painted white*, but could be for some sizes delivered with a yellow or red finish.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements with Green Pin® at the time of order.

Instructions for use

Grade 80 lifting sling fittings for synthetic, should be inspected before use to ensure that:

- all markings are legible.
- all lifting sling fittings of the complete sling are made of the same steel grade 80.
- a lifting sling fitting with the correct WLL has been selected with respect to the sling design. For further details, refer to the EN 818-4.
- the pin, bolt, nut, bush or any other locking system cannot move or vibrate out of position.
- lifting sling fittings are free from nicks, gouges, and cracks.
- lifting sling fittings are not heat treated, modified, repaired, or reshaped by machining or bent. (This may affect their Working Load Limit).
- lifting sling fittings items are not distorted or unduly worn. (Maximum allowable wear is 10 % of the original diameter)
- the latch of the hook(s) is present and functional.
- the hook is never side-, tip- or back- loaded.
- the hook is supporting the load correctly.
- the latch should not be supporting any load.
- only use the lifting sling fittings for in-line lifting.

Green Pin® grade 80 lifting sling fittings for synthetic must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse, and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use), and more frequently when the links are used in severe operating conditions.

Testing

Generally load rated products are proof load and MPI tested.
For specific information on certificates we refer to the separate paragraph on certification.

The Green Pin® lifting sling fittings for synthetic are proof load tested at the following loads:

Working Load Limit (WLL)	Proofload (PL)
metric t	metric t
2	5
3.2	8
5.4	13.5
8.2	20.5

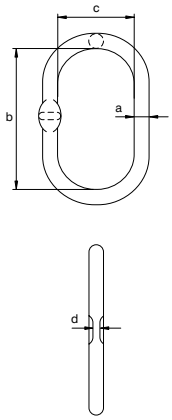
Green Pin® Master Link EN 1677-4 GR8

Grade 80 master link EN 1677-4

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-4, ASTM A952/952M and ASME B30.9
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 50 t without flat part

MS



diameter	diameter chain 1 leg	diameter chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a		90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	metric	b	c	d	
inch	inch	inch	inch	inch	t	inch	inch	inch	lbs
1/2	7/32 - 1/4	-	7/32	7/32 - 1/4	1.6	4 17/32	2 3/8	9/32	0.88
5/8	5/16	7/32 - 1/4	1/4 - 5/16	5/16	3.2	4 23/32	2 3/4	9/32	1.32
23/32	3/8	5/16	3/8	3/8	4.5	5 5/16	2 15/16	11/32	1.85
25/32	1/2	3/8	-	1/2	6.2	5 29/32	3 7/32	7/16	2.43
7/8	5/8	-	1/2	5/8	8.2	6 11/16	3 17/32	9/16	3.53
31/32	3/4	1/2	-	3/4	10.6	7 15/32	4 1/16	9/16	5.07
1 3/32	3/4	-	5/8	3/4	12.8	8 7/32	4 23/32	21/32	6.83
1 3/16	3/4 - 7/8	5/8	3/4	3/4 - 7/8	15.5	9 1/4	4 29/32	21/32	8.82
1 13/32	-	3/4	3/4	-	20	10 5/8	5 23/32	7/8	14.55
1 1/2	1	3/4	7/8	1	25	9 27/32	5 29/32	7/8	15.65
1 25/32	1 1/4	1	1	1 1/4	37	11 13/16	7 7/8	7/8	26.7
1 31/32	-	-	1 1/4	-	50	14 31/32	7 7/8	-	39.7
2 5/32	-	1 1/4	-	-	63	14 3/16	7 7/8	-	46.3
2 3/4	-	-	-	-	100	19 11/16	9 27/32	-	97
3 5/32	-	-	-	-	125	19 13/16	11 1/32	-	134

CAD INFO

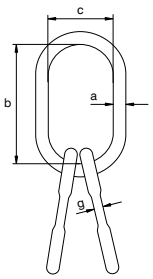
* could be delivered with a yellow or red finish

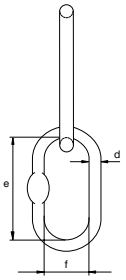
Green Pin® Master Link Assembly EN 1677-4 GR8

Grade 80 master link assembly EN 1677-4

Scan for additional product details

MTS





- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 1677-4, ASTM A952/952M and ASME B30.9
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** from 60 t without flat part

diameter	diameter chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
5/8	-	7/32	7/32 - 1/4	2.5	4 23/32	2 3/4	1/2	4 17/32	2 3/8	9/32	2.65
23/32	7/32	7/32 - 1/4	5/16	3.5	5 5/16	2 15/16	5/8	4 23/32	2 3/4	9/32	6.83
7/8	1/4 - 5/16	5/16	3/8	6.5	6 11/16	3 17/32	23/32	5 5/16	2 15/16	11/32	7.28
31/32	3/8	3/8	1/2	8.5	7 15/32	4 1/16	25/32	5 29/32	3 7/32	7/16	9.92
1 3/32	-	-	-	10	8 7/32	4 23/32	25/32	5 29/32	3 7/32	7/16	11.9
1 3/16	-	1/2	5/8	13	9 1/4	4 29/32	7/8	6 11/16	3 17/32	9/16	15.87
1 13/32	1/2	5/8	3/4	17	10 5/8	5 23/32	31/32	7 15/32	4 1/16	9/16	24.7
1 1/2	-	-	3/4	20.8	9 27/32	5 29/32	1 3/32	8 7/32	4 23/32	21/32	29.3
1 25/32	5/8 - 3/4	3/4	7/8	30	11 13/16	7 7/8	1 13/32	10 5/8	5 23/32	7/8	56
1 31/32	3/4 - 7/8	7/8	1	40	14 31/32	7 7/8	1 1/2	9 27/32	5 29/32	7/8	71
2 5/32	-	1	1 1/4	50	14 3/16	7 7/8	1 1/2	9 27/32	5 29/32	7/8	78
2 3/8	1	-	-	60	16 15/16	8 21/32	1 25/32	11 13/16	7 7/8	1 25/32	119
2 3/4	-	1 1/4	-	80	19 11/16	9 27/32	2 5/32	14 3/16	7 7/8	2 5/32	190
3 5/32	1 1/4	-	-	100	19 13/16	9 27/32	2 5/32	14 3/16	7 7/8	2 5/32	227

CAD INFO

* could be delivered with a yellow or red finish

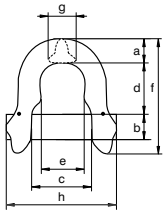
Green Pin® Round Web Sling Connector GR8

Grade 80 round web sling connector

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

COS



working load limit	width	diameter pin	width	length inside	width inside	length outside	thickness	width outside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
2	9/16	11/32	1 5/16	1 3/8	29/32	2 19/32	19/32	2 5/16	0.4
3.2	23/32	1/2	1 23/32	1 25/32	1 3/16	3 3/8	25/32	2 15/16	0.82
5.4	7/8	5/8	2 1/4	2 5/16	1 1/2	4 7/32	31/32	3 11/16	1.59
8.2	1 3/32	25/32	2 3/4	2 27/32	1 7/8	5 1/4	1 7/32	4 19/32	2.98

Example combinations with COS:

MS + CO + COS

COS + XLC

COS + CSC

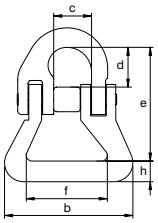
* could be delivered with a yellow or red finish

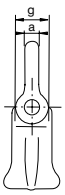
Scan for additional product details

Green Pin® Round Web Sling Connecting Link GR8

Grade 80 round web sling connecting link

MJS





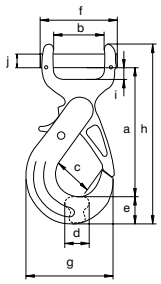
- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

for chain diameter	working load limit	diameter	width outside	width inside	length inside	length	width inside	diameter eye	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
1/4 - 5/16	2	11/32	2 19/32	3/4	13/16	2 3/8	1 5/8	1/2	9/16	0.68
3/8	3.2	13/32	2 15/16	29/32	15/16	2 15/16	1 13/16	23/32	19/32	1.12
1/2	5.4	9/16	3 7/16	1 3/32	1 1/4	3 17/32	2 1/16	15/16	3/4	2.23

Green Pin® Flat Web Sling Safety Hook GR8

Grade 80 flat web sling self locking hook

XLS



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1
- **Finish:** painted white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

working load limit	length	width	width opening	thickness	width	width outside	width outside	length outside	length inside	diameter pin	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
2	6 11/32	2 7/16	1 27/32	1 1/4	1 3/8	3 11/16	4 3/8	8 3/4	23/32	5/8	4.65

* could be delivered with a yellow or red finish

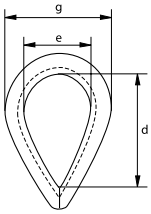
C

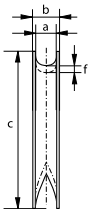
Thimbles

Standard commercial

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1 CE IIB

E-6110





diameter rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
5/32	5/32	9/32	31/32	5/8	7/16	3/32	3/4	1.1
3/16	3/16	5/16	1 7/32	7/8	5/8	1/8	31/32	1.76
1/4	1/4	13/32	1 15/32	1 1/32	3/4	1/8	1 3/16	3.09
5/16	5/16	15/32	2	1 11/32	15/16	3/16	1 1/2	6.17
11/32	11/32	1/2	2 1/4	1 1/2	1 5/32	7/32	1 23/32	6.61
13/32	13/32	5/8	2 17/32	1 21/32	1 1/4	7/32	1 15/16	10.58
15/32	15/32	23/32	3	2	1 1/2	1/4	2 1/4	17.64
9/16	9/16	25/32	3 7/32	2 1/4	1 9/16	5/16	2 7/16	22
5/8	5/8	7/8	3 1/2	2 3/8	1 21/32	11/32	2 19/32	33.1
23/32	23/32	1 1/32	4 1/32	2 5/8	1 25/32	13/32	2 7/8	48.5
25/32	25/32	1 3/32	4 17/32	3	2	7/16	3 3/16	55
7/8	7/8	1 3/16	5	3 9/32	2 1/8	1/2	3 7/16	71
15/16	15/16	1 1/4	5 7/16	3 17/32	2 17/32	9/16	3 15/16	101
1 1/32	1 1/32	1 13/32	5 31/32	4 1/32	2 11/16	9/16	4 7/32	146
1 3/32	1 3/32	1 1/2	6 1/2	4 11/32	2 7/8	5/8	4 17/32	170
1 3/16	1 3/16	1 21/32	7	4 23/32	3 1/8	21/32	4 29/32	176
1 1/4	1 1/4	1 23/32	8	5 5/8	3 21/32	23/32	5 9/16	287

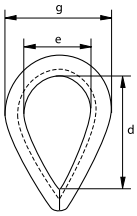
C

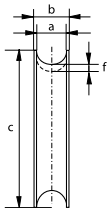
Thimbles

Heavy duty stub-end

- **Material:** mild steel
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 CE IIB

G-6120





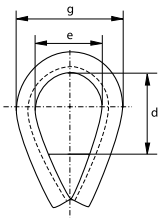
diameter rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
5/16	11/32	1/2	2	1 3/8	7/8	5/32	1 23/32	1.1
13/32	7/16	19/32	2 17/32	1 27/32	1 3/16	5/32	2 1/8	1.76
15/32	1/2	23/32	3	2 1/4	1 3/8	3/16	2 7/16	3.09
9/16	19/32	13/16	3 1/2	2 9/16	1 25/32	1/4	3	6.17
5/8	23/32	7/8	4 1/32	2 15/16	1 31/32	1/4	3 9/32	6.61
23/32	25/32	1 3/32	4 1/2	3 11/32	2 3/32	9/32	3 19/32	10.58
25/32	7/8	1 3/16	5	3 11/16	2 3/8	5/16	4 1/32	17.64
7/8	15/16	1 7/32	5 1/2	4 7/32	2 9/16	11/32	4 11/32	22
15/16	1 1/32	1 11/32	5 31/32	4 1/2	2 3/4	3/8	4 21/32	33.1
1 3/32	1 3/16	1 17/32	7	5 1/8	3 5/32	13/32	5 9/32	48.5
1 1/4	1 11/32	1 5/8	8	6 3/16	3 15/16	13/32	6 3/8	55
1 13/32	1 1/2	1 7/8	9 1/32	6 7/8	4 17/32	7/16	7 5/32	71
1 9/16	1 21/32	2	10	7 25/32	4 23/32	15/32	7 13/32	101
1 23/32	1 13/16	2 7/16	11 1/32	8 7/16	5 1/8	9/16	8 9/32	146
1 31/32	2 3/32	2 9/16	12	8 21/32	5 1/2	23/32	9 3/4	170
2 7/32	2 1/4	2 11/16	14 1/32	9 21/32	5 29/32	29/32	10 5/16	176
2 17/32	2 5/8	3 11/32	16 1/32	11 1/4	7 9/32	25/32	11 1/32	287

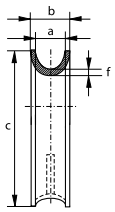
C

Thimbles

Heavy duty stub-end reinforced with welded fillet plate

G-6128





- **Material:** mild steel
- **Finish:** hot dipped galvanized reinforced with a welded fillet plate
- **Certification:** 2.1 CE IIB

width groove	width overall	length	length inside	width inside	thickness back	width	weight per piece
a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
1 3/8	2 5/32	8 21/32	3 15/16	3 5/32	13/32	5 29/32	7.05
1 9/16	2 9/16	9 21/32	4 23/32	3 17/32	15/32	6 5/16	11.24
1 31/32	3 5/32	11 13/32	4 29/32	4 11/32	5/8	7 7/8	20.3
2 7/16	3 15/16	14 3/16	6 5/16	5 1/2	25/32	9 27/32	38.4
2 27/32	4 17/32	15 11/32	6 7/8	6 5/16	25/32	10 7/16	42.8
3 11/32	4 29/32	18 1/2	9 21/32	7 15/32	25/32	11 13/16	64
3 15/16	5 29/32	21 1/4	11 13/32	7 7/8	31/32	14 9/16	86
4 17/32	6 1/2	22 7/16	11 13/16	8 9/32	31/32	14 31/32	115

For shackle

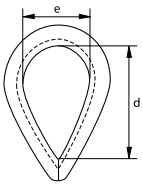
group		width groove a inch							
		1 3/8	1 9/16	1 31/32	2 7/16	2 27/32	3 11/32	3 15/16	4 17/32
G-4161	Working Load Limit WLL metric t	17, 25	25	35, 42.5	55	85			
G-4163		17, 25	25	35, 42.5	55	85			
G-4151		17, 25	25	35, 42.5	55	85			
G-4153		17, 25	25	35, 42.5	55	85			
P-6036							120, 150	150, 200	
G-6038							120, 150	150, 200	
P-6033		30	30	40, 55	75	125	125		
G-5263		30, 40	40		85	120	150, 175	175	
G-5163		17, 25	25	35, 42.5	55	85			
P-6031							120, 150	150, 200	
G-4263		4.75 ~ 25	6.5 ~ 25	9,5 ~ 30	16 ~ 55	25 ~ 75	30 ~ 75	55, 75	75
P-5363		17, 25	25	35, 42.5	55	85			
P-5365		17, 25	25	35, 42.5	55	85	120, 150	150, 200	
P-5367		17, 25	25	35, 42.5	55	85	120, 150	150	
G-4164		17, 25	25						
G-4154		17, 25	25						
G-4169		17							
G-4159		17							

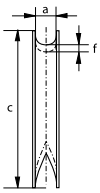
C

Thimbles

Generally to DIN 6899 (B)

E-6131
G-6131





- **Material:** mild steel
- **Standard:** generally to DIN 6899 (B)
- **Finish:** thimbles for rope diameters up to and including 6 mm are electro-galvanized, other diameters are hot dipped galvanized
- **Certification:** 2.1 CE IIB

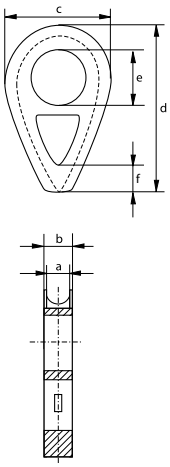
diameter rope	width groove	length	length inside	width inside	thickness back	weight per 100 pcs
inch	a inch	c inch	d inch	e inch	f inch	lbs
3/32	1/8	7/8	3/4	15/32	1/16	1.32
1/8	5/32	1 1/32	13/16	1/2	1/16	1.76
5/32	3/16	1 1/4	29/32	9/16	1/16	2.2
3/16	1/4	1 1/2	31/32	5/8	3/32	4.41
1/4	9/32	1 23/32	1 3/32	23/32	3/32	4.41
9/32	5/16	2	1 1/4	25/32	1/8	5.95
11/32	13/32	2 1/4	1 1/2	15/16	1/8	9.04
7/16	15/32	2 17/32	1 25/32	1 3/32	1/8	15.21
1/2	1/2	2 3/4	1 7/8	1 3/16	1/8	15.87
1/2	9/16	3	2	1 1/4	5/32	22.5
19/32	5/8	3 9/32	2 9/32	1 13/32	5/32	36.2
5/8	21/32	3 1/2	2 13/32	1 1/2	3/16	41.9
21/32	23/32	3 3/4	2 17/32	1 9/16	3/16	44.8
23/32	25/32	4 1/32	2 27/32	1 25/32	7/32	60
25/32	7/8	4 1/2	3 5/32	1 31/32	7/32	68
7/8	15/16	5	3 17/32	2 7/32	1/4	99
15/16	1 1/32	5 1/2	3 29/32	2 7/16	9/32	131
1 1/32	1 3/32	5 31/32	4 13/32	2 3/4	5/16	159
1 3/32	1 3/16	6 1/2	4 23/32	2 15/16	5/16	229
1 3/16	1 1/4	7	5 1/32	3 5/32	5/16	254
1 1/4	1 11/32	8	5 31/32	3 3/4	11/32	337
1 11/32	1 13/32	8 1/2	6 5/16	3 15/16	11/32	388
1 13/32	1 1/2	9 1/32	6 15/16	4 11/32	11/32	388
1 1/2	1 9/16	9 1/2	7 1/4	4 17/32	13/32	644
1 9/16	1 21/32	10	7 9/16	4 23/32	13/32	705
1 21/32	1 25/32	12	9 7/16	5 29/32	13/32	802

C

Thimbles

According to DIN 3091

S-6134

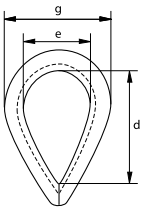


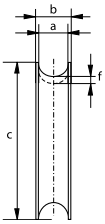
- **Material:** cast mild steel, (GTW 40)
- **Standard:** according to DIN 3091
- **Finish:** self-coloured
- **Certification:** 2.1 CE IIB
- **Note:** the diameter (e) of the timble for diameter wire rope 2 27/32 inch is 5 1/2 inch

diameter rope	width groove	width overall	width	length	diameter	length	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs
5/16	11/32	19/32	1 9/16	2 7/32	9/16	-	39.7
13/32	7/16	11/16	1 31/32	2 3/4	23/32	-	71
15/32	1/2	25/32	2 3/8	3 5/16	13/16	-	115
9/16	5/8	15/16	2 3/4	3 27/32	31/32	-	176
5/8	23/32	1 1/32	3 5/32	5 1/8	1 3/32	5/8	198
23/32	25/32	1 1/8	3 17/32	5 23/32	1 7/32	23/32	267
25/32	7/8	1 7/32	3 15/16	6 11/32	1 3/8	25/32	355
7/8	15/16	1 5/16	4 11/32	6 31/32	1 1/2	7/8	465
15/16	1 1/32	1 13/32	4 23/32	7 19/32	1 5/8	15/16	597
1 1/32	1 5/32	1 9/16	5 1/8	8 7/32	1 23/32	1 1/32	783
1 3/32	1 7/32	1 21/32	5 1/2	8 13/16	1 27/32	1 3/32	926
1 1/4	1 3/8	1 27/32	6 5/16	10 3/32	2 3/32	1 1/4	1389
1 13/32	1 9/16	2 3/32	7 3/32	11 11/32	2 5/16	1 13/32	1949
1 9/16	1 23/32	2 9/32	7 7/8	12 19/32	2 9/16	1 9/16	2425
1 23/32	1 7/8	2 15/32	8 21/32	13 27/32	2 3/4	1 23/32	3307
1 7/8	2 3/32	2 23/32	9 7/16	15 1/8	3	1 7/8	4409
2 1/16	2 1/4	2 29/32	10 1/4	16 3/8	3 3/16	2 1/16	5512
2 7/32	2 7/16	3 5/32	11 1/32	17 5/8	3 3/8	2 7/32	7055
2 17/32	2 3/4	3 17/32	12 19/32	20 5/32	3 3/4	2 17/32	10141
2 27/32	3 1/8	3 31/32	14 3/16	22 11/16	5 1/2	2 27/32	14551

C

E-6135
G-6135





Thimbles

Generally to DIN 3090

- **Material:** mild steel
- **Standard:** generally to DIN 3090
- **Finish:** for diameter $^{5}/_{32}$ inch and $^{1}/_{4}$ inch electro-galvanized
  other diameters hot dipped galvanized
- **Certification:** 2.1 CE IIB

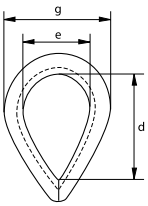
diameter wire rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
$^{5}/_{32}$	$^{3}/_{16}$	$^{5}/_{16}$	1 $^{3}/_{8}$	$^{25}/_{32}$	$^{13}/_{32}$	$^{3}/_{32}$	$^{31}/_{32}$	3,09
$^{1}/_{4}$	$^{9}/_{32}$	$^{13}/_{32}$	1 $^{31}/_{32}$	1 $^{3}/_{16}$	$^{19}/_{32}$	$^{3}/_{32}$	1 $^{5}/_{16}$	6,61
$^{5}/_{16}$	$^{11}/_{32}$	$^{1}/_{2}$	2 $^{11}/_{16}$	1 $^{9}/_{16}$	$^{25}/_{32}$	$^{5}/_{32}$	1 $^{11}/_{16}$	15,65
$^{13}/_{32}$	$^{7}/_{16}$	$^{19}/_{32}$	3 $^{1}/_{32}$	1 $^{31}/_{32}$	$^{31}/_{32}$	$^{3}/_{16}$	1 $^{27}/_{32}$	37,5
$^{15}/_{32}$	$^{1}/_{2}$	$^{3}/_{4}$	3 $^{15}/_{16}$	2 $^{3}/_{8}$	1 $^{3}/_{16}$	$^{1}/_{4}$	2 $^{15}/_{32}$	53
$^{9}/_{16}$	$^{5}/_{8}$	$^{7}/_{8}$	4 $^{11}/_{32}$	2 $^{3}/_{4}$	1 $^{3}/_{8}$	$^{5}/_{16}$	2 $^{3}/_{4}$	68
$^{5}/_{8}$	$^{23}/_{32}$	$^{31}/_{32}$	4 $^{29}/_{32}$	3 $^{5}/_{32}$	1 $^{9}/_{16}$	$^{5}/_{16}$	3 $^{5}/_{32}$	110
$^{23}/_{32}$	$^{25}/_{32}$	1 $^{1}/_{16}$	5 $^{19}/_{32}$	3 $^{17}/_{32}$	1 $^{25}/_{32}$	$^{11}/_{32}$	3 $^{17}/_{32}$	137
$^{25}/_{32}$	$^{7}/_{8}$	1 $^{3}/_{16}$	6 $^{3}/_{32}$	3 $^{15}/_{16}$	1 $^{31}/_{32}$	$^{13}/_{32}$	4 $^{1}/_{32}$	198
$^{7}/_{8}$	$^{15}/_{16}$	1 $^{5}/_{16}$	6 $^{1}/_{2}$	4 $^{11}/_{32}$	2 $^{5}/_{32}$	$^{13}/_{32}$	4 $^{7}/_{32}$	220
$^{15}/_{16}$	1 $^{1}/_{32}$	1 $^{3}/_{8}$	7 $^{3}/_{32}$	4 $^{23}/_{32}$	2 $^{3}/_{8}$	$^{13}/_{32}$	4 $^{23}/_{32}$	287
1 $^{1}/_{32}$	1 $^{5}/_{32}$	1 $^{13}/_{32}$	7 $^{15}/_{32}$	5 $^{1}/_{8}$	2 $^{9}/_{16}$	$^{15}/_{32}$	4 $^{13}/_{16}$	485
1 $^{3}/_{32}$	1 $^{7}/_{32}$	1 $^{15}/_{32}$	7 $^{3}/_{4}$	5 $^{1}/_{2}$	2 $^{3}/_{4}$	$^{15}/_{32}$	5 $^{1}/_{32}$	529
1 $^{1}/_{4}$	1 $^{3}/_{8}$	1 $^{11}/_{16}$	8 $^{27}/_{32}$	6 $^{5}/_{16}$	3 $^{5}/_{32}$	$^{19}/_{32}$	5 $^{23}/_{32}$	476
1 $^{13}/_{32}$	1 $^{9}/_{16}$	2 $^{3}/_{8}$	9 $^{27}/_{32}$	7 $^{3}/_{32}$	3 $^{17}/_{32}$	$^{19}/_{32}$	6 $^{11}/_{16}$	948
1 $^{9}/_{16}$	1 $^{23}/_{32}$	2 $^{19}/_{32}$	11 $^{13}/_{32}$	7 $^{7}/_{8}$	3 $^{15}/_{16}$	$^{25}/_{32}$	7 $^{15}/_{32}$	1257
1 $^{23}/_{32}$	1 $^{7}/_{8}$	2 $^{27}/_{32}$	12 $^{13}/_{32}$	8 $^{21}/_{32}$	4 $^{11}/_{32}$	$^{25}/_{32}$	8 $^{1}/_{16}$	1874
1 $^{7}/_{8}$	2 $^{3}/_{32}$	3 $^{1}/_{32}$	13 $^{25}/_{32}$	9 $^{7}/_{16}$	4 $^{23}/_{32}$	$^{25}/_{32}$	8 $^{21}/_{32}$	2469
2 $^{1}/_{16}$	2 $^{1}/_{4}$	3 $^{15}/_{32}$	14 $^{31}/_{32}$	10 $^{1}/_{4}$	5 $^{1}/_{8}$	$^{31}/_{32}$	9 $^{1}/_{4}$	3373
2 $^{7}/_{32}$	2 $^{7}/_{16}$	3 $^{3}/_{4}$	15 $^{15}/_{16}$	11 $^{1}/_{32}$	5 $^{1}/_{2}$	$^{31}/_{32}$	10 $^{5}/_{8}$	4736
2 $^{3}/_{8}$	2 $^{19}/_{32}$	4 $^{1}/_{8}$	16 $^{15}/_{16}$	11 $^{13}/_{16}$	5 $^{29}/_{32}$	$^{31}/_{32}$	11 $^{7}/_{32}$	5071
2 $^{17}/_{32}$	2 $^{3}/_{4}$	4 $^{11}/_{32}$	19 $^{3}/_{32}$	12 $^{19}/_{32}$	6 $^{5}/_{16}$	1 $^{3}/_{16}$	12 $^{7}/_{32}$	7716

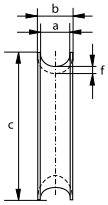
C

Thimbles

Generally to EN 13411-1

G-6170





- **Material:** mild steel
- **Standard:** generally to EN 13411-1 formerly BS 464
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 CE IIB

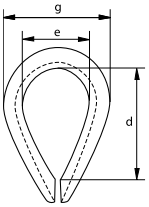
diameter rope		width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	mm	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
3/16	5	1/4	3/8	1 27/32	1 1/16	23/32	1/8	1 1/4	7,72
1/4	7	9/32	7/16	2	1 5/16	13/16	1/8	1 13/32	6,17
5/16	8	5/16	1/2	2 1/16	1 5/16	7/8	5/32	1 1/2	12,57
3/8	10	13/32	9/16	2 17/32	1 1/2	31/32	1/4	1 7/8	17,64
7/16	11	1/2	11/16	2 7/8	1 5/8	1 5/32	5/16	2 1/16	31,3
1/2	13	9/16	13/16	3 1/8	1 25/32	1 1/4	5/16	2 5/16	39,7
9/16	14	19/32	13/16	3 15/32	2 7/32	1 1/2	5/16	2 17/32	41,7
5/8	16	5/8	7/8	3 25/32	2 5/16	1 5/8	11/32	2 15/16	49,4
11/16	17	3/4	1 1/8	4 1/4	2 5/8	1 25/32	3/8	3 1/8	88
3/4	19	13/16	1 1/8	4 7/8	2 7/8	2	7/16	3 5/8	101
7/8	22	7/8	1 1/4	5 5/32	3 9/32	2 7/32	1/2	4 1/32	136
15/16	24	31/32	1 5/16	5 3/4	3 5/8	2 17/32	1/2	4 11/32	234
1	25	1 1/16	1 3/8	6 3/8	4 1/4	2 3/4	9/16	4 11/16	215
1 1/8	29	1 5/32	1 1/2	7	4 13/32	3	5/8	5 1/4	333
1 1/4	32	1 5/16	1 5/8	7 3/4	5 1/4	3 3/4	5/8	5 31/32	450
1 3/8	35	1 1/2	1 7/8	8 31/32	5 31/32	4 1/8	3/4	6 7/8	701
1 1/2	38	1 5/8	2 1/16	10	6 1/2	4 1/2	15/16	7 3/4	800
1 5/8	41	1 27/32	2 1/4	11 1/32	7 13/32	4 23/32	15/16	8 1/16	1100
1 3/4	44	2	2 1/4	11 1/4	7	5	1	8 31/32	1226
1 7/8	48	2 3/8	2 5/8	12 15/32	7 15/32	5 1/4	1 1/8	9 3/4	-
2	51	2 17/32	2 3/4	13	8	5 1/2	1 3/16	10 1/8	-
2 1/8	54	2 17/32	2 3/4	13	8	5 1/2	1 3/16	10 1/8	-
2 1/4	57	2 5/8	3	14 1/32	9 11/16	6 5/16	1 1/4	11 21/32	-
2 1/2	64	2 15/16	3 21/32	16 17/32	10 1/32	6 11/16	1 11/16	11 13/16	-

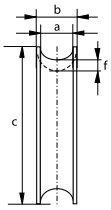
C

Thimbles

Generally to US Fed. Spec. FF-T-276b type III

G-6142





- **Material:** mild steel
- **Standard:** generally to US Federal Specification FF-T-276b type III and generally to EN 13411-1
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 CE IIB

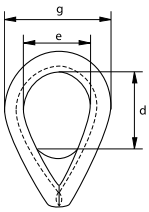
diameter rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
1/4	9/32	13/32	2 7/32	1 5/8	7/8	1/16	1 1/2	5.95
5/16	5/16	1/2	2 17/32	1 7/8	1 1/16	3/32	1 13/16	11.24
11/32	13/32	11/16	2 7/8	2 1/8	1 1/32	3/32	2 1/8	20.1
7/16	15/32	23/32	3 9/32	2 3/8	1 1/4	1/8	2 3/8	30.6
1/2	17/32	27/32	3 5/8	2 3/4	1 1/2	5/32	2 3/4	43.9
9/16	19/32	29/32	3 5/8	2 3/4	1 1/2	5/32	2 11/16	45.2
5/8	21/32	31/32	4 1/16	3 9/32	1 23/32	5/32	3 1/16	66
3/4	25/32	1 1/4	5	3 3/4	2	1/4	3 13/16	134
7/8	15/16	1 13/32	5 1/2	4 1/4	2 1/4	1/4	4 1/4	177
31/32	1 1/16	1 17/32	6 5/32	4 1/2	2 15/32	1/4	4 29/32	240
1 3/32 - 1 1/4	1 11/32	1 13/16	7	5 1/8	2 7/8	1/4	5 13/16	324
1 1/4 - 1 3/8	1 13/32	2 7/32	8 31/32	6 1/2	3 1/2	13/32	6 13/16	807
1 3/8 - 1 1/2	1 17/32	2 15/32	8 31/32	6 7/32	3 1/2	15/32	7 1/8	1054
1 5/8	1 21/32	2 19/32	11 7/32	8	3 31/32	15/32	8 1/8	1612
1 25/32	1 25/32	2 23/32	12 5/32	8 31/32	4 1/2	15/32	8 1/2	1715
1 7/8 - 2	2 1/8	3 1/16	14 31/32	12	5 31/32	15/32	9 27/32	2535
2 1/4	2 3/8	3 5/8	17 1/8	14 1/32	7	5/8	11 27/32	4266
2 17/32	2 3/4	4 11/32	18 5/16	14 3/16	7	25/32	12 7/32	5820
3	3 11/32	4 29/32	21 21/32	16 5/32	7 3/32	25/32	13	8488

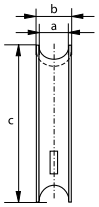
C

Thimbles

Pennant line type

G-6151





- **Material:** mild steel
- **Finish:** hot dipped galvanized produced with a welded fillet plate
- **Certification:** 2.1 CE IIB

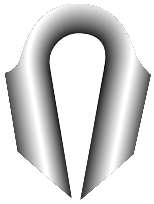
diameter wire rope	width groove	width overall	length	length inside	width inside	width	weight each
inch	a inch	b inch	c inch	d inch	e inch	g inch	lbs
5/8	21/32	7/8	4 1/32	1 31/32	1 31/32	2 15/16	0.88
23/32	3/4	31/32	4 1/2	1 31/32	2 3/32	3 11/32	1.1
25/32	13/16	1 5/32	5	2 3/8	2 3/8	3 15/16	1.76
7/8	29/32	1 5/16	5 1/2	2 3/8	2 9/16	4 11/32	1.98
15/16	31/32	1 11/32	5 31/32	2 3/4	2 3/4	4 17/32	2.2
1 3/32	1 3/16	1 1/2	7	2 15/16	3 5/32	5 5/16	3.75
1 3/16	1 5/16	1 23/32	8	3 5/32	3 15/16	6 3/32	5.51
1 13/32	1 1/2	1 15/16	9 1/32	4 11/32	4 17/32	6 7/8	8.82
1 9/16	1 5/8	2 1/16	10	4 23/32	4 23/32	7 15/32	9.92
1 23/32	1 13/16	2 3/8	10 31/32	4 23/32	5 1/8	8 9/32	15.43
1 31/32	2 1/16	2 9/16	12	5 1/2	5 23/32	9 21/32	18.3
2 7/32	2 3/8	2 27/32	14 1/32	6 3/32	6 3/32	10 1/4	27.6
2 17/32	2 3/4	3 5/16	17	7 7/8	7 15/32	12 7/32	43
3	3 3/16	4 11/16	19 1/32	9 1/4	9 1/16	13 25/32	64
3 7/32	3 5/8	5 1/8	22	9 7/16	10 1/32	15 9/16	77
3 17/32	4 1/8	5 23/32	24 1/32	10 13/16	11 1/32	16 15/16	93
4 23/32	4 23/32	6 3/32	25 31/32	11 5/8	11 7/32	17 23/32	128

C

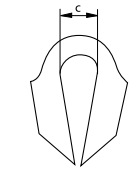
Thimbles

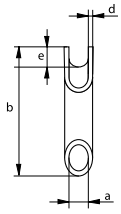
Tubular type

- **Material:** mild steel
- **Finish:** painted
- **Certification:** 2.1 CE IIB



P-6190





diameter wire rope	diameter	length	width inside	thickness	height	weight each
inch	a inch	b inch	c inch	d inch	e inch	lbs
13/32	15/32	3 17/32	29/32	5/32	5/16	0.51
15/32	19/32	4 1/8	1 1/16	3/16	13/32	0.88
9/16	21/32	4 17/32	1 1/16	3/16	13/32	1.1
5/8	3/4	4 23/32	1 1/4	3/16	15/32	1.32
23/32	7/8	5 1/2	1 3/8	3/16	19/32	1.65
7/8	31/32	7 3/32	1 25/32	1/4	5/8	3.09
15/16	1 3/32	7 3/32	1 25/32	9/32	5/8	3.86
1 1/32	1 3/16	7 11/16	1 27/32	9/32	23/32	4.41
1 1/4	1 3/8	8 15/32	2 3/8	9/32	7/8	5.51
1 1/2	1 25/32	10 1/4	2 3/4	9/32	1 1/16	7.72
1 23/32	1 31/32	11 1/32	2 15/16	9/32	1 3/32	9.26

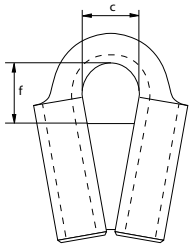
C

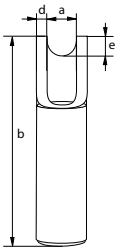
Thimbles

Tubular type with welded plate

- **Material:** mild steel
- **Finish:** painted
- **Certification:** 2.1 CE IIB

P-6195





diameter wire rope	width groove	length	width inside	thickness	height	length inside	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs
13/32	15/32	3 5/16	29/32	5/32	5/16	15/16	0.57
15/32	19/32	3 3/4	1 1/16	3/16	13/32	1 7/32	0.93
9/16	21/32	3 15/16	1 1/16	3/16	13/32	1 1/2	1.06
5/8	3/4	4 13/32	1 1/4	3/16	15/32	1 13/16	1.34
23/32	7/8	4 29/32	1 3/8	3/16	19/32	1 27/32	2.09
7/8	31/32	5 29/32	1 25/32	1/4	5/8	2 13/32	2.93
15/16	1 3/32	6 3/16	1 25/32	9/32	5/8	2 7/32	3.68
1 1/32	1 3/16	6 11/16	1 27/32	9/32	23/32	2 11/16	4.32
1 1/4	1 3/8	7 15/32	2 3/8	9/32	7/8	2 7/8	5.36
1 13/32	1 9/16	8 11/32	2 3/4	11/32	1 1/32	3 5/32	9.52
1 1/2	1 25/32	8 31/32	2 3/4	9/32	1 1/16	3 11/16	8.09

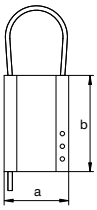
Green Pin® ID Tag

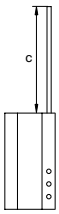
Aluminium identification tag

Scan for additional product details

- **Material:** aluminium
- **Finish:** see table below
- **Certification:** 2.1

TAG





partnumber	finish	width	length	length	weight each
		a inch	b inch	c inch	lbs
TAGVIERGE	self-coloured	2	3	8 21/32	0.15
TAGJ	anodized yellow	2	3	8 21/32	0.15
TAGGREEN	anodized green	2	3	8 21/32	0.15
TAGRED	anodized red	2	3	8 21/32	0.15
TAGBLUE	anodized blue	2	3	8 21/32	0.15
TAGDEMI	self-coloured	2	1 1/2	8 21/32	0.09
TAGB without wire rope	self-coloured	2	3		0.13

TAGVIERGE

TAGJ

TAGGREEN

TAGRED

TAGBLUE

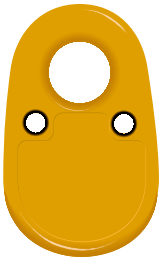
TAGDEMI

Scan for additional product details

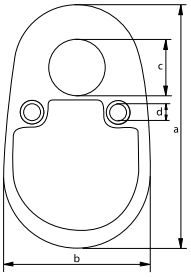
Green Pin® RFID Tag

Accessory for radio-frequency identification of slings

- **Material:** stainless steel
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Finish:** polymer
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
2 3/32	1 5/16	15/32	5/32	3.97

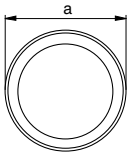
RFID INFO

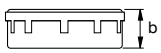
Green Pin® RFID Chip

Accessory for radio-frequency identification of slings

- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °F up to +257 °F
- **Certification:** 2.1
- **Note:** IP68; water and ice proof

CHIPRFID



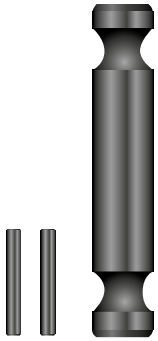


diameter	thickness	weight per 100 pcs
a inch	b inch	lbs
1/4	3/32	0.04

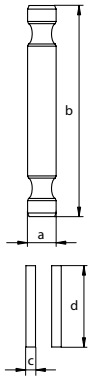
RFID INFO

Green Pin® Clevis For Web Sling Connector GR8 Spare Kit

Grade 80 spare kit for clevis for web sling connector



RCOS



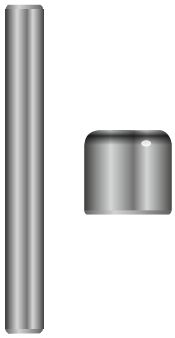
- **Material:** alloy steel, grade 80, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB

partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPRCOS7/8	11/32	2 9/32	1/8	7/8	0.07
GPRCOS10	1/2	2 29/32	5/32	15/16	0.18
GPRCOS13	5/8	3 11/16	5/32	1 1/4	0.33
GPRCOS16	25/32	4 9/16	3/16	1 3/8	0.55

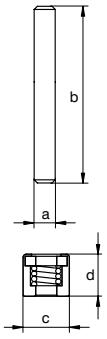
partnumber	for fitting	
	COS	XLS
GPRCOS7/8	GPCOS60	
GPRCOS10	GPCOS90	
GPRCOS13	GPCOS150	GPXLS60
GPRCOS16	GPCOS240	

Green Pin® Connecting Link Spare Kit GR8

Grade 80 spare kit for connecting link



RMJ



- **Material:** alloy steel, grade 80, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB

partnumber	diameter pin	length pin	diameter	width	weight each
	a inch	b inch	c inch	d inch	lbs
GPRMJ6	3/16	1 5/8	15/32	13/32	0.02
GPRMJ7/8	1/4	2 1/8	1/2	9/16	0.04
GPRMJ10	5/16	2 19/32	5/8	23/32	0.09
GPRMJ13	13/32	3 5/16	7/8	7/8	0.22
GPRMJ16	15/32	4 1/8	31/32	31/32	0.33
GPRMJ18/20	19/32	4 13/16	1 3/32	1 1/4	0.55
GPRMJ22	21/32	5 9/16	1 1/4	1 3/8	0.84
GPRMJ26	25/32	6 21/32	1 1/2	1 9/16	1.19
GPRMJ32	7/8	7 27/32	1 25/32	1 31/32	2.2

partnumber	for fitting	
	MJ	MJS
GPRMJ6	GPMJ6	
GPRMJ7/8	GPMJ7/8	GPMJS7/8
GPRMJ10	GPMJ10	GPMJS10
GPRMJ13	GPMJ13	GPMJS13
GPRMJ16	GPMJ16	
GPRMJ18/20	GPMJ18/20	
GPRMJ22	GPMJ22	
GPRMJ26	GPMJ26	
GPRMJ32	GPMJ32	

LIFTING EYES

Applications

Eye bolts and eye nuts are used for lifting machines, appliances or any other objects which cannot be lifted by hand or by fork lift truck.

Range

Green Pin® offers eye bolts and nuts in grade 80 and stainless steel. To complement the Green Pin® assortment, Van Beest offers a wide range of other lifting eye bolts, eye nuts and lifting points, in metric and imperial sizes, with WLL's from 0.07 t up to 40 t.

Design

Grade 80 lifting points are made from alloy steel. The threads are standard metric and UNC. The eye bolts and eye nuts generally to DIN are drop forged from C15 steel. The ADA bolts have rolled thread bolts.

Each eye bolt and eye nut is generally marked with:

- Working Load Limit - e.g. 0.7 t, valid for in-line lifting
- manufacturer's symbol - e.g. Bs or GP
- thread diameter - e.g. M16 or $^{5}/_{8}$"-11UNC
- traceability code - e.g. A1 or HA
- steel grade - C15 or 8 (8 only on AL, EL, ADA and PAS)
- item code - e.g. EL, AL, ADA, OL
- CE conformity code - CE

Finish

The eye bolts and eye nuts can be painted or electro-galvanized. Grade 80 lifting points are painted and supplied with a protective cover over the threads. Do not remove the cover until use.

Some products are mentioned as painted white*, but could be for some sizes delivered with a red finish.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

Eye bolts and eye nuts should be inspected before use to ensure that:

- all markings are legible;
- an eye bolt or eye nut with the correct WLL has been selected;
- the thread is undamaged and clean;
- eye bolts and eye nuts are free from nicks, gouges and cracks;
- never grind, machine or cut an eye bolt or eye nut;
- eye bolts or eye nuts may not be heat treated as this may affect their WLL;
- never modify, repair or reshape an eye bolt or eye nut by machining, welding, heating or bending as this may affect the WLL;
- lifting points and the other components are of the same steel grade;
- always make sure that the lifting point is supporting the load correctly;
- lifting points should be seated well down in the hook;
- lifting points are not distorted or unduly worn;
- the WLL for complementary eyebolts/nuts are valid for in-line lifting only and have to be reduced for non-axial loading. For further details please refer to the standard: DIN 580 for eye bolts or DIN 582 for eye nuts;
- when used as a lifting device, the eye bolt or eye nut should always be fully screwed into the load in such a way that it fits properly against the load.

Testing

Generally load rated products are proof load and/or MPI tested.
For specific information on certificates we refer to the separate paragraph on certification.
Green Pin® eye bolts and nuts in grade 80 are proof load tested at 2.5 times the WLL.

Temperature

If extreme temperature situations occur, the following load reductions must be taken into account:

Temperature °Celsius	Temperature °Fahrenheit	Reduction for elevated temperatures New Working Load Limit
-40 °C up to 200 °C	-40 °F up to 392 °F	100 % of original WLL
200 - 300 °C	392 - 572 °F	90 % of original WLL
300 - 400 °C	572 - 752 °F	75 % of original WLL
> 400 °C	> 752 °F	not allowed

Note: ADA temperature range -4 °F up to +158 °F cannot be used above +158 °F.

Angle reduction tables for all Green Pin® eye bolts and nuts

group	number of leg(s)			1	2	1	2	2		2	3 & 4		3 & 4
	load direction			0°	0°	90°	90°	0-45°	45-60°	non-sym-metrical	0-45°	45-60°	non-sym-metrical
	safety factor			1	2	0.5	1	1.4	0.5	0.5	2.1	0.75	0.5
	article	diameter thread											
		AL / ALDIN (metric)	ALUNC (inch)	t	t	t	t	t	t	t	t	t	t
AL / ALDIN / ALUNC	GPAL06 / GPAL06DIN / GPAL06UNC	6	1/4	0.2	0.4	0.10	0.20	0.28	0.10	0.10	0.42	0.15	0.10
	GPAL08 / GPAL08DIN	8		0.4	0.8	0.20	0.40	0.56	0.20	0.20	0.84	0.30	0.20
	GPAL10 / GPAL10DIN / GPAL10UNC	10	3/8	0.7	1.4	0.35	0.70	0.98	0.35	0.35	1.47	0.53	0.35
	GPAL12 / GPAL12DIN / GPAL12UNC	12	1/2	1	2	0.50	1.00	1.40	0.50	0.50	2.10	0.75	0.50
	GPAL14 / GPAL14DIN	14		1.2	2.4	0.60	1.20	1.68	0.60	0.60	2.52	0.90	0.60
	GPAL16 / GPAL16DIN / GPAL16UNC	16	5/8	1.5	3	0.75	1.50	2.10	0.75	0.75	3.15	1.13	0.75
	GPAL18 / GPAL18DIN	18		2	4	1.00	2.00	2.80	1.00	1.00	4.20	1.50	1.00
	GPAL20 / GPAL20DIN / GPAL20UNC	20	3/4	2.5	5	1.25	2.50	3.50	1.25	1.25	5.25	1.88	1.25
	GPAL22 / GPAL22DIN / GPAL22UNC	22	7/8	3	6	1.50	3.00	4.20	1.50	1.50	6.30	2.25	1.50
	GPAL24 / GPAL24DIN / GPAL24UNC	24	1	4	8	2.00	4.00	5.60	2.00	2.00	8.40	3.00	2.00
	GPAL27 / GPAL27DIN / GPAL27UNC	27	1 1/8	5	10	2.50	5.00	7.00	2.50	2.50	10.50	3.75	2.50
	GPAL30 / GPAL30DIN / GPAL30UNC	30	1 1/4	6	12	3.00	6.00	8.40	3.00	3.00	12.60	4.50	3.00
	GPAL33 / GPAL33DIN	33		7	14	3.50	7.00	9.80	3.50	3.50	14.70	5.25	3.50
	GPAL36 / GPAL36DIN / GPAL36UNC	36	1 1/2	8	16	4.00	8.00	11.20	4.00	4.00	16.80	6.00	4.00
	GPAL39 / GPAL39DIN	39		9	18	4.50	9.00	12.60	4.50	4.50	18.90	6.75	4.50
	GPAL42 / GPAL42DIN / GPAL42UNC	42	1 3/4	10	20	5.00	10.00	14.00	5.00	5.00	21.00	7.50	5.00
	GPAL45 / GPAL45DIN / GPAL45UNC	45	2	15	30	7.50	15.00	21.00	7.50	7.50	31.50	11.25	7.50
	GPAL48 / GPAL48DIN	48		18	36	9.00	18.00	25.20	9.00	9.00	37.80	13.50	9.00
	GPAL52 / GPAL52DIN	52		20	40	10.00	20.00	28.00	10.00	10.00	42.00	15.00	10.00
	GPAL56 / GPAL56DIN / GPAL56UNC	56	2 1/2	25	50	12.50	25.00	35.00	12.50	12.50	52.50	18.75	12.50
	GPAL60 / GPAL60DIN	60		30	60	15.00	30.00	42.00	15.00	15.00	63.00	22.50	15.00
	GPAL64* / GPAL64DIN*	64		36	72								

* GPAL64 90 % of original WLL: 5-30°

group	number of leg(s)		1	2	2	3 & 4
	load direction		0°	0°	0-30°	0-30°
	safety factor		1	2	1.4	2.1
	article	diameter thread (metric)	t	t	t	t
EL	GPEL06	6	0.2	0.4	0.28	0.42
	GPEL08	8	0.4	0.8	0.56	0.84
	GPEL10	10	0.7	1.4	0.98	1.47
	GPEL12	12	1	2	1.40	2.10
	GPEL14	14	1.2	2.4	1.68	2.52
	GPEL16	16	1.5	3	2.10	3.15
	GPEL18	18	2	4	2.80	4.20
	GPEL20	20	2.5	5	3.50	5.25
	GPEL22	22	3	6	4.20	6.30
	GPEL24	24	4	8	5.60	8.40
	GPEL27	27	5	10	7.00	10.50
	GPEL30	30	6	12	8.40	12.60
	GPEL33	33	7	14	9.80	14.70
	GPEL36	36	8	16	11.20	16.80
	GPEL39	39	9	18	12.60	18.90
	GPEL42	42	10	20	14.00	21.00
	GPEL45	45	15	30	21.00	31.50
	GPEL48	48	18	36	25.20	37.80

Note: - Never use EL with an angle less than 30° to the horizontal, as the maximum WLL increase significantly
- WLL values only apply with thread bolts of quality class 8.8 min.

group	number of leg(s)			1	2	1	2	2		2	3 & 4		3 & 4
	load direction			0°	0°	90°	90°	0-45°	45-60°	non-sym-metrical	0-45°	45-60°	non-sym-metrical
	safety factor			1	2	1	2	1.4	1	1	2.1	1.5	1
	article	diameter thread											
		ADA / ADAL (metric)	ADAUNC (inch)	t	t	t	t	t	t	t	t	t	t
ADA / ADAL / ADAUNC	GPADA08 / GPADA08L52(92) / GPADA08UNC	8	5/16	0.4	0.8	0.4	0.8	0.56	0.4	0.4	0.84	0.60	0.4
	GPADA10 / GPADA10L125(62)	10		0.7	1.4	0.7	1.4	0.98	0.7	0.7	1.47	1.05	0.7
	GPADA10UNC		3/8	0.6	1.2	0.6	1.2	0.84	0.6	0.6	1.26	0.90	0.6
	GPADA12 / GPADA12L125(62) / GPADA12UNC	12	1/2	1	2	1	2	1.40	1	1	2.10	1.50	1
	GPADA14	14		1.3	2.6	1.3	2.6	1.82	1.3	1.3	2.73	1.95	1.3
	GPADA16 / GPADA16L172(92) /	16		1.6	3.2	1.6	3.2	2.24	1.6	1.6	3.36	2.40	1.6
	GPADA16UNC		5/8	1.7	3.4	1.7	3.4	2.38	1.7	1.7	3.57	2.55	1.7
	GPADA18	18		2	4	2	4	2.80	2	2	4.20	3.00	2
	GPADA20L112(172) / GPADA20UNC	20	3/4	2.5	5	2.5	5	3.50	2.5	2.5	5.25	3.75	2.5
	GPADA22 / GPADA22UNC	22	7/8	3	6	3	6	4.20	3	3	6.30	4.50	3
	GPADA24 / GPADA24L112(172)	24		4	8	4	8	5.60	4	4	8.40	6.00	4
	GPADA24UNC		1	4.5	9	4.5	9	6.30	4.5	4.5	9.45	6.75	4.5
	GPADA27 / GPADA27L90	27		5	10	5	10	7.00	5	5	10.50	7.50	5
	GPADA30 / GPADA30L240(L90)	30		6.3	12.6	6.3	12.6	8.82	6.3	6.3	13.23	9.45	6.3
	GPADA32UNC		1 1/4	6.8	13.6	6.8	13.6	9.52	6.8	6.8	14.28	10.20	6.8
	GPADA33	33		7	14	7	14	9.80	7	7	14.70	10.50	7
	GPADA36 / GPADA36L110	36		10	20	10	20	14.00	10	10	21.00	15.00	10
	GPADA38UNC		1 1/2	10.8	21.6	10.8	21.6	15.12	10.8	10.8	22.68	16.20	10.8
	GPADA39	39		10	20	10	20	14.00	10	10	21.00	15.00	10
	GPADA42	42		12.5	25	12.5	25	17.50	12.5	12.5	26.25	18.75	12.5
	GPADA50UNC		2	13.6	27.2	13.60	27.20	19.04	13.60	13.60	28.56	20.40	13.60

Note: WLL values only apply with nut of quality class 8.8 min. Class 10.9 and 12.9 recommended

group	number of leg(s)		1	2	2	3 & 4
	load direction		0°	0°	0-30°	0-30°
	safety factor		1	2	1.4	2.1
	article	diameter thread (metric)	t	t	t	t
OL	GPOL08	8	0.5	1	0.70	1.05
	GPOL10	10	0.9	1.8	1.26	1.89
	GPOL12	12	1.25	2.5	1.75	2.63
	GPOL14	14	1.5	3	2.10	3.15
	GPOL16	16	1.9	3.8	2.66	3.99
	GPOL18	18	2.25	4.5	3.15	4.73
	GPOL20	20	3.12	6.24	4.37	6.55
	GPOL22	22	3.8	7.6	5.32	7.98
	GPOL24	24	5	10	7.00	10.50
	GPOL27	27	6.25	12.5	8.75	13.13
	GPOL30	30	8	16	11.20	16.80
	GPOL33	33	9	18	12.60	18.90
	GPOL36	36	10	20	14.00	21.00
	GPOL39	39	12.5	25	17.50	26.25
	GPOL42	42	15	30	21.00	31.50

Note: Never use OL with an angle less than 30° to the horizontal, as the maximum WLL increase significantly

group	number of leg(s)			1	2	1	2	2		2	3 & 4		3 & 4
	load direction			0°	0°	90°	90°	0-45°	45-60°	non-sym-metrical	0-45°	45-60°	non-sym-metrical
	safety factor			1	2	1	2	1.4	1	1	2.1	1.5	1
	article	welding seam											
		size	length	t	t	t	t	t	t	t	t	t	t
PAS	GPPAS1	a8 z11	$^{3}/_{32}$ x 1 $^{3}/_{8}$ inch	1.2	2.4	1.2	2.4	1.68	1.2	1.2	2.52	1.80	1.2
	GPPAS3	a9 z13	$^{3}/_{32}$ x 1 $^{21}/_{32}$ inch	3.2	6.4	3.2	6.4	4.48	3.2	3.2	6.72	4.80	3.2
	GPPAS5	a11 z16	$^{3}/_{32}$ x 1 $^{15}/_{16}$ inch	5.4	10.8	5.4	10.8	7.56	5.4	5.4	11.34	8.10	5.4
	GPPAS8	a14 z20	$^{3}/_{32}$ x 2 $^{17}/_{32}$ inch	8.2	16.4	8.2	16.4	11.48	8.2	8.2	17.22	12.30	8.2
	GPPAS12	a16 z21	$^{3}/_{32}$ x 3 $^{1}/_{16}$ inch	12.8	25.6	12.8	25.6	17.92	12.8	12.8	26.88	19.20	12.8
	GPPAS15	a17 z23	$^{3}/_{32}$ x 3 $^{17}/_{32}$ inch	15.5	31	15.5	31	21.70	15.5	15.5	32.55	23.25	15.5

Note: Welding must be done in accordance with DIN5817 resp. 15429, by a qualified welder according to EN 287-1

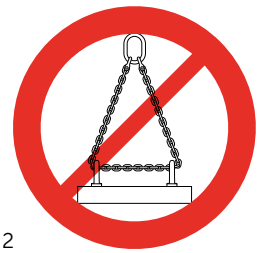
Assembly

The thread length should be adapted to the material of the load. For hard materials, the thread length must not be smaller than 1.5 times the diameter (e.g. M20, minimum length 1 $^{3}/_{16}$ inch). For soft materials such as aluminium or brass, a length of 3 times the diameter is needed. For soft materials, consider using a longer length and through-hole mounting with a nut and washer on the other side.

The bolt thread and the tapped hole in the load must be compatible and both must be in a good condition. The tapping should be at least 20 % deeper than the thread length. The surface should be flat and perpendicular to the thread to enable full contact with the lifting point.

The material to which the lifting point is attached should be strong enough to withstand lifting forces without any deformation. The lifting points must fit perfectly on the material of the load to be lifted. Full contact between the lifting point and the surface is required.

1



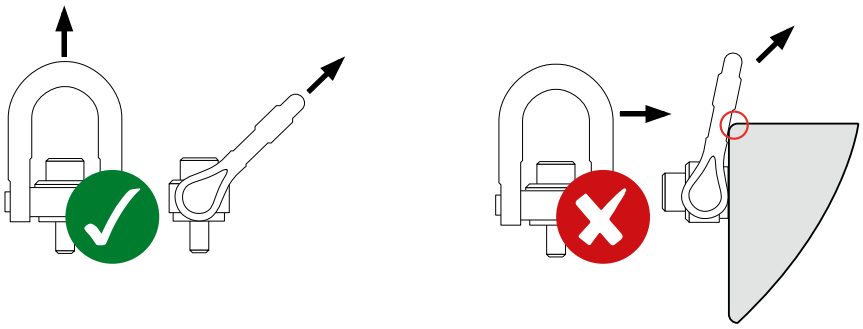
2

1. The lifting points should match the size of the hook, so that they can be correctly positioned into the hook. The lifting point must be positioned in the saddle of the hook, not on the tip.

2. Never use a sling as a loop between two lifting points. Consider the centre of gravity of the load to position the lifting points (symmetrical to the centre). The tapping must be positioned at a distance of at least 3 times the diameter of the bolt from the edge of the load.

Fasten these lifting points by hand and without the use of any tools or leverage. The lifting point has to be tightened just deep enough so that the lower edge connects to the surface of the load.

For the ADA pivoting and rotating hoist rings, tighten the threaded bolt to the recommended torque (see the product table). Check the torque periodically, because the bolts may come loose during use. Check whether the hoist ring can pivot and rotate freely in all directions.



Products must be regularly inspected in accordance with the safety standards and regulations in the country of use. This is required because the products in use may be affected by issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the products are used in severe operating conditions.

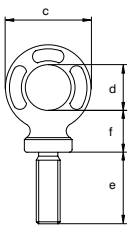
Green Pin® Lifting Eye GR8

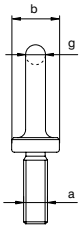
Grade 80 lifting eye

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and ASME B30.26
- **Finish:** painted red or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes

AL





working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.2	M6 x 1.00	25/32	1 11/32	25/32	25/32	21/32	9/32	0.11
0.4	M8 x 1.25	25/32	1 11/32	25/32	15/16	21/32	9/32	0.13
0.7	M10 x 1.50	25/32	1 1/2	7/8	1 3/16	3/4	5/16	0.18
1	M12 x 1.75	31/32	1 27/32	1 1/16	1 13/32	29/32	13/32	0.31
1.2	M14 x 2.00	1 3/16	2 1/4	1 3/16	1 9/16	1 1/16	9/16	0.55
1.5	M16 x 2.00	1 13/32	2 15/32	1 3/8	2 5/32	1 7/32	9/16	0.86
2	M18 x 2.50	1 13/32	2 15/32	1 3/8	2 5/32	1 7/32	9/16	0.88
2.5	M20 x 2.50	1 9/16	2 27/32	1 9/16	2 5/16	1 11/32	5/8	1.28
3	M22 x 2.50	1 21/32	3 7/32	1 25/32	2 19/32	1 1/2	3/4	1.7
4	M24 x 3.00	2 5/32	3 3/4	2 5/32	3 5/16	1 9/16	25/32	2.62
5	M27 x 3.00	2 5/32	3 3/4	2 5/32	3 5/16	1 9/16	25/32	2.6
6	M30 x 3.50	2 3/8	4 1/4	2 3/8	3 29/32	2	15/16	4.12
7	M33 x 3.50	2 3/8	4 1/4	2 3/8	3 29/32	2	15/16	4.32
8	M36 x 4.00	2 9/16	4 21/32	2 11/16	4 19/32	1 7/8	31/32	5.38
9	M39 x 4.00	2 9/16	4 21/32	2 11/16	4 19/32	1 7/8	31/32	5.71
10	M42 x 4.50	2 3/4	5 19/32	3 5/32	5 5/16	2 13/32	1 7/32	9.13
15	M45 x 4.50	2 3/4	5 19/32	3 5/32	5 5/16	2 13/32	1 7/32	9.15
18	M48 x 5.00	3 3/4	7 1/8	3 13/16	5 29/32	2 23/32	1 21/32	18.12
20	M52 x 5.00	3 3/4	7 1/8	3 13/16	5 29/32	2 23/32	1 21/32	18.85
25	M56 x 5.50	3 3/4	7 1/8	3 13/16	5 29/32	2 23/32	1 21/32	19.51
30	M60 x 5.50	3 3/4	7 1/8	3 13/16	5 29/32	2 23/32	1 21/32	20.2
36	M64 x 6.00	3 3/4	7 1/8	3 13/16	5 29/32	2 23/32	1 21/32	21.1

CAD INFO

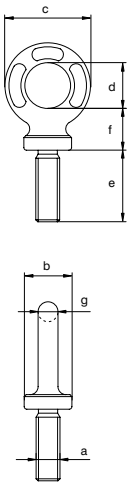
Green Pin® Lifting Eye Length as DIN580 GR8

Grade 80 lifting eye length as DIN580

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and ASME B30.26
- **Finish:** painted red or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes

ALDIN



working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.2	M6 x 1.00	25/32	1 11/32	25/32	1/2	21/32	9/32	0.11
0.4	M8 x 1.25	25/32	1 11/32	25/32	1/2	21/32	9/32	0.11
0.7	M10 x 1.50	25/32	1 1/2	7/8	21/32	3/4	5/16	0.18
1	M12 x 1.75	31/32	1 27/32	1 1/16	13/16	29/32	13/32	0.29
1.2	M14 x 2.00	1 3/16	2 1/4	1 3/16	1 1/16	1 1/16	9/16	0.53
1.5	M16 x 2.00	1 13/32	2 15/32	1 3/8	1 1/16	1 7/32	9/16	0.75
2	M18 x 2.50	1 13/32	2 15/32	1 3/8	1 3/16	1 7/32	9/16	0.79
2.5	M20 x 2.50	1 9/16	2 27/32	1 9/16	1 3/16	1 11/32	5/8	1.15
3	M22 x 2.50	1 21/32	3 7/32	1 25/32	1 13/32	1 1/2	3/4	1.63
4	M24 x 3.00	2 5/32	3 3/4	2 5/32	1 13/32	1 9/16	25/32	2.2
5	M27 x 3.00	2 5/32	3 3/4	2 5/32	1 25/32	1 9/16	25/32	2.27
6	M30 x 3.50	2 3/8	4 1/4	2 3/8	1 25/32	2	15/16	3.66
7	M33 x 3.50	2 3/8	4 1/4	2 3/8	2 1/8	2	15/16	3.66
8	M36 x 4.00	2 9/16	4 21/32	2 11/16	2 1/8	1 7/8	31/32	4.48
9	M39 x 4.00	2 9/16	4 21/32	2 11/16	2 15/32	1 7/8	31/32	4.59
10	M42 x 4.50	2 3/4	5 19/32	3 5/32	2 15/32	2 13/32	1 7/32	7.43
15	M45 x 4.50	2 3/4	5 19/32	3 5/32	2 11/16	2 13/32	1 7/32	7.65
18	M48 x 5.00	3 3/4	7 1/8	3 13/16	2 11/16	2 23/32	1 21/32	15.81
20	M52 x 5.00	3 3/4	7 1/8	3 13/16	3 1/16	2 23/32	1 21/32	16.6
25	M56 x 5.50	3 3/4	7 1/8	3 13/16	3 1/16	2 23/32	1 21/32	16.58
30	M60 x 5.50	3 3/4	7 1/8	3 13/16	3 17/32	2 23/32	1 21/32	17.15
36	M64 x 6.00	3 3/4	7 1/8	3 13/16	3 17/32	2 23/32	1 21/32	18.56

CAD INFO

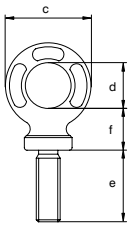
Green Pin® Lifting Eye UNC GR8

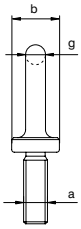
Grade 80 lifting eye UNC

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and ASME B30.26
- **Finish:** painted red or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes

ALUNC





working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.2	1/4 - 20UNC	25/32	1 11/32	25/32	25/32	21/32	9/32	0.11
0.7	3/8 - 16UNC	25/32	1 1/2	7/8	1 3/16	3/4	5/16	0.18
1	1/2 - 13UNC	31/32	1 27/32	1 1/32	1 13/32	29/32	13/32	0.31
1.5	5/8 - 11UNC	1 13/32	2 9/16	1 3/8	2 3/32	1 3/16	9/16	0.84
2.5	3/4 - 10UNC	1 9/16	2 7/8	1 17/32	2 9/32	1 11/32	5/8	1.21
3	7/8 - 9UNC	1 21/32	3 7/32	1 23/32	2 17/32	1 1/2	3/4	1.79
4	1 - 8UNC	2 5/32	3 3/4	2 1/8	3 5/16	1 9/16	25/32	2.51
5	1 1/8 - 7UNC	2 5/32	3 3/4	2 1/8	3 5/16	1 9/16	25/32	2.67
6	1 1/4 - 7UNC	2 3/8	4 1/4	2 5/16	3 29/32	1 15/16	15/16	4.19
8	1 1/2 - 6UNC	2 9/16	4 21/32	2 5/8	4 19/32	1 25/32	31/32	5.56
10	1 3/4 - 5UNC	2 3/4	5 19/32	3 5/32	5 5/16	2 13/32	1 7/32	9.39
15	2 - 4 1/2UNC	2 3/4	5 19/32	3 5/32	5 5/16	2 13/32	1 7/32	10.27
25	2 1/2 - 4UNC	3 3/4	7 1/8	3 13/16	5 29/32	2 23/32	1 21/32	21.1

CAD INFO

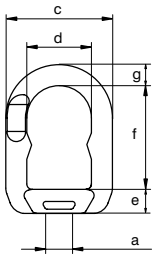
Green Pin® Eye Nut GR8

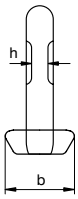
Grade 80 eye nut

Scan for additional product details

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and ASME B30.26
- **Finish:** painted white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes

EL





working load limit	diameter thread	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.2	M6 x 1.00	1 7/32	2	1 3/16	9/16	1 25/32	7/16	1/4	0.33
0.4	M8 x 1.25	1 7/32	2	1 3/16	9/16	1 25/32	7/16	1/4	0.33
0.7	M10 x 1.50	1 7/32	2	1 3/16	9/16	1 25/32	7/16	1/4	0.33
1	M12 x 1.75	1 17/32	2 7/32	1 1/4	19/32	1 7/8	15/32	1/4	0.51
1.2	M14 x 2.00	1 17/32	2 7/32	1 1/4	19/32	1 7/8	15/32	1/4	0.51
1.5	M16 x 2.00	1 23/32	2 9/16	1 15/32	5/8	2 3/8	9/16	5/16	0.84
2	M18 x 2.50	1 23/32	2 9/16	1 15/32	5/8	2 3/8	9/16	11/32	0.84
2.5	M20 x 2.50	1 23/32	2 9/16	1 15/32	5/8	2 3/8	9/16	11/32	0.82
3	M22 x 2.50	2 1/16	3 1/8	1 15/16	13/16	2 15/16	5/8	7/16	1.39
4	M24 x 3.00	2 1/16	3 1/8	1 15/16	13/16	2 15/16	5/8	7/16	1.39
5	M27 x 3.00	2 1/16	3 1/8	1 15/16	13/16	2 15/16	5/8	7/16	1.39
6	M30 x 3.50	2 19/32	3 25/32	2 9/32	15/16	3 15/32	13/16	9/16	2.45
7	M33 x 3.50	2 19/32	3 25/32	2 9/32	15/16	3 15/32	13/16	9/16	2.45
8	M36 x 4.00	3 5/16	4 3/4	2 7/8	1 17/32	3 15/16	31/32	21/32	4.89
9	M39 x 4.00	3 5/16	4 3/4	2 7/8	1 17/32	3 15/16	31/32	21/32	4.89
10	M42 x 4.50	3 5/16	4 3/4	2 7/8	1 17/32	3 15/16	31/32	21/32	4.89
15	M45 x 4.50	3 17/32	5 3/16	3 7/32	1 5/8	4 13/16	31/32	7/8	7.21
18	M48 x 5.00	3 17/32	5 3/16	3 7/32	1 5/8	4 13/16	31/32	7/8	7.21

CAD INFO

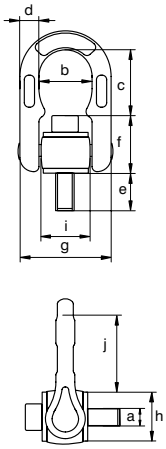
Scan for additional product details

Green Pin® Rotating Hoist Ring GR8

Grade 80 rotating hoist ring

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and generally to ASME B30.26
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** Rolled thread bolt. WLL indicated below are given in the worst conditions of use, i.e. 0° to the horizontal

ADA



working load limit	diameter thread	width inside	length inside	diameter	length	thickness base	width outside	diameter base	diameter base	length inside	hex key	torque value	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	inch	Ft.Lbs	lbs
0.4	M8 x 1.25	1 13/32	1 21/32	15/32	23/32	1 3/8	2 23/32	1 11/32	1 3/8	1 11/16	1/4	4.8	0.95
0.7	M10 x 1.5	1 13/32	1 9/16	15/32	23/32	1 15/32	2 23/32	1 11/32	1 3/8	1 11/16	5/16	9.6	0.97
1	M12 x 1.75	1 13/32	1 1/2	15/32	29/32	1 17/32	2 23/32	1 11/32	1 3/8	1 11/16	13/32	16.2	1.01
1.3	M14 x 2.0	1 13/32	1 13/32	15/32	29/32	1 5/8	2 23/32	1 11/32	1 3/8	1 11/16	15/32	25.8	1.04
1.6	M16 x 2.0	1 13/32	1 11/16	15/32	1 3/32	1 11/16	2 23/32	1 11/32	1 3/8	2 1/16	9/16	40.6	1.15
2	M18 x 2.5	1 13/32	1 5/8	15/32	1 3/32	1 25/32	2 23/32	1 11/32	1 3/8	2 1/16	9/16	59.0	1.19
2.5	M20 x 2.5	1 13/32	1 17/32	15/32	1 5/16	1 27/32	2 23/32	1 11/32	1 3/8	2 1/16	21/32	81.1	1.3
3	M22 x 2.5	2 3/32	2 1/4	3/4	1 1/4	2 3/4	4 3/32	1 15/16	2 1/16	2 25/32	21/32	110.6	4.14
4	M24 x 3.0	2 3/32	2 7/32	3/4	1 15/32	2 27/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	140.1	4.25
5	M27 x 3.0	2 3/32	2 15/32	3/4	1 25/32	2 17/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	206.5	4.32
6.3	M30 x 3.5	2 3/32	2 15/32	3/4	1 25/32	2 17/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	280.2	4.48
7	M33 x 3.5	2 7/8	3 21/32	1 3/16	2 1/8	3 9/32	5 7/8	2 11/16	2 27/32	3 27/32	3/4	383.5	11.64
10	M36 x 4.0	2 7/8	3 21/32	1 3/16	2 1/8	3 9/32	5 7/8	2 11/16	2 27/32	3 27/32	3/4	442.5	11.79
10	M39 x 4.0	2 7/8	3 21/32	1 3/16	2 15/32	3 9/32	5 7/8	2 11/16	2 27/32	3 27/32	3/4	641.6	12.02
12.5	M42 x 4.5	2 25/32	3 7/16	1 3/16	2 15/32	3 5/16	5 3/4	2 11/16	3 1/32	3 27/32	3/4	737.5	12.26

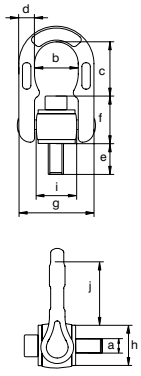
CAD INFO

Green Pin® Rotating Hoist Ring UNC GR8

Grade 80 rotating hoist ring UNC

- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and generally to ASME B30.26
- **Finish:** painted red or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** Rolled thread bolt. WLL indicated below are given in the worst conditions of use, i.e. 0° to the horizontal

ADAUNC



working load limit	diameter thread	width inside	length inside	diameter	length	thickness base	width outside	diameter base	diameter base	length inside	hex key	torque value	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	inch	Ft.Lbs	lbs
0.4	5/16 - 18UNC	1 13/32	1 21/32	15/32	23/32	1 3/8	2 23/32	1 11/32	1 3/8	1 11/16	1/4	4.8	0.95
0.6	3/8 - 16UNC	1 13/32	1 9/16	15/32	23/32	1 15/32	2 23/32	1 11/32	1 3/8	1 11/16	5/16	9.6	0.97
1	1/2 - 13UNC	1 13/32	1 1/2	15/32	15/16	1 17/32	2 23/32	1 11/32	1 3/8	1 11/16	13/32	16.2	1.01
1.7	5/8 - 11UNC	1 13/32	1 11/16	15/32	1 7/32	1 11/16	2 23/32	1 11/32	1 3/8	2 1/16	1/2	40.6	1.21
2.5	3/4 - 10UNC	1 13/32	1 17/32	15/32	1 7/32	1 27/32	2 23/32	1 11/32	1 3/8	2 1/16	5/8	81.1	1.21
3.5	7/8 - 9UNC	2 3/32	2 1/4	3/4	1 3/8	2 3/4	4 3/32	1 15/16	2 1/16	2 25/32	3/4	110.6	4.14
4.5	1 - 8UNC	2 3/32	2 1/8	3/4	1 5/8	2 7/8	4 3/32	1 15/16	2 1/16	2 25/32	3/4	140.1	4.25
6.8	1 1/4 - 7UNC	2 3/32	2 7/16	3/4	2 5/32	2 17/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	280.2	4.65
10.8	1 1/2 - 6UNC	2 7/8	3 5/8	1 3/16	2 15/16	3 9/32	5 3/4	2 11/16	2 27/32	3 27/32	3/4	442.5	12.24
13.6	2 - 4 1/2UNC	2 7/8	3 25/32	1 3/16	2 15/16	3 5/32	5 3/4	2 11/16	2 27/32	3 27/32	3/4	737.5	13.67

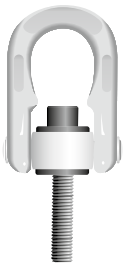
CAD INFO

* could be (for some sizes) delivered with a red finish

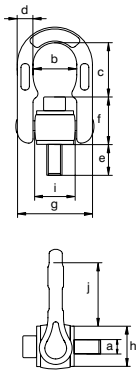
Green Pin® Long Rotating Hoist Ring GR8

Grade 80 rotating hoist ring longer length

Scan for additional product details



ADAL



- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and generally to ASME B30.26
- **Finish:** painted red or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** Rolled thread bolt. WLL indicated below are given in the worst conditions of use, i.e. 0° to the horizontal

working load limit	diameter thread	width inside	length inside	diameter	length	thickness base	width outside	diameter base	diameter base	length inside	hex key	torque value	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	inch	Ft.Lbs	lbs
0.4	M8 x 1.25	1 13/32	1 21/32	15/32	2 1/16	1 3/8	2 23/32	1 11/32	1 3/8	1 11/16	1/4	4.8	1.01
0.4	M8 x 1.25	1 13/32	1 21/32	15/32	3 5/8	1 3/8	2 23/32	1 11/32	1 3/8	1 11/16	1/4	4.8	1.04
0.7	M10 x 1.5	1 13/32	1 9/16	15/32	2 7/16	1 15/32	2 23/32	1 11/32	1 3/8	1 11/16	5/16	9.6	1.1
0.7	M10 x 1.5	1 13/32	1 9/16	15/32	4 29/32	1 15/32	2 23/32	1 11/32	1 3/8	1 11/16	5/16	9.6	1.04
1	M12 x 1.75	1 13/32	1 1/2	15/32	2 7/16	1 17/32	2 23/32	1 11/32	1 3/8	1 11/16	13/32	16.2	1.17
1	M12 x 1.75	1 13/32	1 1/2	15/32	4 29/32	1 17/32	2 23/32	1 11/32	1 3/8	1 11/16	13/32	16.2	1.08
1.6	M16 x 2.0	1 13/32	1 11/16	15/32	3 5/8	1 11/16	2 23/32	1 11/32	1 3/8	2 1/16	9/16	40.6	1.57
1.6	M16 x 2.0	1 13/32	1 11/16	15/32	6 25/32	1 11/16	2 23/32	1 11/32	1 3/8	2 1/16	9/16	40.6	1.32
2.5	M20 x 2.5	1 13/32	1 17/32	15/32	4 13/32	1 27/32	2 23/32	1 11/32	1 3/8	2 1/16	21/32	81.1	1.65
2.5	M20 x 2.5	1 3/8	1 1/2	1/2	6 25/32	1 27/32	2 11/16	1 11/32	1 1/2	2 1/16	21/32	81.1	1.92
4	M24 x 3.0	2 3/32	2 7/32	3/4	4 13/32	2 27/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	140.1	4.76
4	M24 x 3.0	2 3/32	2 7/32	3/4	6 25/32	2 27/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	140.1	5.14
5	M27 x 3.0	2 3/32	2 15/32	3/4	3 31/32	2 17/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	206.5	4.85
6.3	M30 x 3.5	2 3/32	2 15/32	3/4	3 31/32	2 17/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	280.2	6.72
6.3	M30 x 3.5	2 3/32	2 15/32	3/4	10 9/32	2 17/32	4 3/32	1 15/16	2 1/16	2 25/32	3/4	280.2	5
10	M36 x 4.0	2 7/8	3 21/32	1 3/16	4 11/32	3 9/32	5 7/8	2 11/16	2 27/32	3 27/32	3/4	442.5	12.61

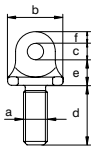
CAD INFO

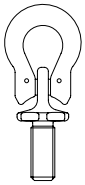
Scan for additional product details

Green Pin® Small Lifting Eye GR8

Grade 80 small lifting eye

OL





- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1
- **Finish:** painted red or white
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes

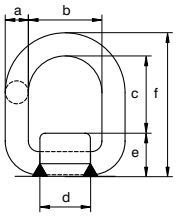
working load limit	diameter thread	diameter base	diameter eye inside	length	thickness base	width	can be combined with	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch		lbs
0.5	M8 x 1.25	1 3/32	5/16	1 3/16	1/2	1/4	GPXLC05, GPXLC0, GPCO5, GPCO6, GPMP5, GPMP6, GPCSC5, GPCSC6	0.11
0.9	M10 x 1.50	1 3/32	5/16	1 3/16	1/2	1/4		0.11
1.25	M12 x 1.75	1 3/32	5/16	1 3/16	1/2	1/4		0.13
1.5	M14 x 2.00	1 7/32	11/32	1 25/32	23/32	11/32	GPXLC1, GPCO7/8, GPMP7/8, GPCSC7/8	0.26
1.9	M16 x 2.00	1 7/32	11/32	1 25/32	23/32	11/32		0.31
2.25	M18 x 2.50	1 7/32	11/32	1 25/32	23/32	11/32		0.33
3.12	M20 x 2.50	1 9/16	1/2	2 5/32	25/32	13/32	GPXLC2, GPCO10, GPMP10, GPCSC10	0.55
3.8	M22 x 2.50	1 9/16	1/2	2 5/32	25/32	13/32		0.62
5	M24 x 3.00	2 3/32	5/8	2 11/16	1 5/32	15/32	GPXLC3, GPCO13, GPMP13, GPCSC13	1.17
6.25	M27 x 3.00	2 3/32	5/8	2 11/16	1 5/32	15/32		1.28
8	M30 x 3.50	2 5/16	25/32	3 17/32	1 3/8	1/2	GPXLC4, GPCO16, GPMP16, GPCSC16	2.07
9	M33 x 3.50	2 5/16	25/32	3 17/32	1 3/8	1/2		2.27
10	M36 x 4.00	2 5/16	25/32	3 17/32	1 3/8	1/2		2.47
12.5	M39 x 4.00	2 15/16	15/16	4 1/8	1 9/16	23/32	GPXLC5, GPCO18/20, GPMP18/20, GPCSC18/20	4.19
15	M42 x 4.50	2 15/16	15/16	4 1/8	1 9/16	23/32		4.45

CAD INFO

Green Pin® Weld-On Transport Ring GR8

Grade 80 Weld-on transport ring

PAS



- **Material:** base: mild steel, ring: alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** welding must be done in accordance with DIN 5817 resp. 15429, by a qualified welder according to EN 287-1

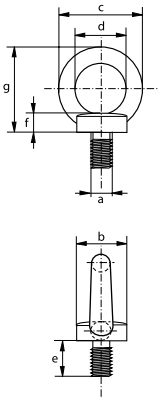
working load limit	diameter	width inside	length inside	length base	height base	length	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
1.2	1/2	1 9/16	1 5/8	1 3/8	1 3/32	3 7/32	0.88
3.2	23/32	1 25/32	1 27/32	1 21/32	1 5/16	3 27/32	1.7
5.4	7/8	2 5/32	2 1/4	1 15/16	1 21/32	4 3/4	3.13
8.2	1 1/32	2 3/4	2 5/8	2 17/32	1 31/32	5 5/8	5.51
12.8	1 3/32	3 11/32	3 17/32	3 1/16	2 5/32	6 13/16	8.16
15.5	1 11/32	3 29/32	3 21/32	3 17/32	2 15/32	7 15/32	12.5

CAD INFO

* could be (for some sizes) delivered with a red finish

C

E-8140



Eye bolts, generally to DIN 580

Generally to DIN 580

- **Material:** carbon steel, C15
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** generally to DIN 580
- **Finish:** electro-galvanized
- **Certification:** 2.1 2.2 CE IIA

working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	height	weight per 100 pcs
metric	a	b	c	d	e	f	g	
t	mm	inch	inch	inch	inch	inch	inch	lbs
0.07	M6 x 1.00	25/32	1 13/32	25/32	1/2	1/4	1 13/32	11.24
0.14	M8 x 1.25	25/32	1 13/32	25/32	1/2	1/4	1 13/32	12.13
0.23	M10 x 1.50	31/32	1 25/32	31/32	21/32	5/16	1 25/32	22.7
0.34	M12 x 1.75	1 3/16	2 1/8	1 3/16	13/16	13/32	2 3/32	37.3
0.49	M14 x 2.00	1 3/8	2 15/32	1 3/8	1 1/16	15/32	2 3/8	66
0.7	M16 x 2.00	1 3/8	2 15/32	1 3/8	1 1/16	15/32	2 7/16	68
0.9	M18 x 2.00	1 9/16	2 27/32	1 9/16	1 3/16	9/16	2 25/32	94
1.2	M20 x 2.50	1 9/16	2 27/32	1 9/16	1 3/16	9/16	2 25/32	93
1.5	M22 x 2.50	1 25/32	3 3/16	1 25/32	1 13/32	9/16	3 5/32	138
1.8	M24 x 3.00	1 31/32	3 17/32	1 31/32	1 13/32	23/32	3 17/32	200
2.5	M27 x 3.00	1 31/32	3 17/32	1 31/32	1 17/32	23/32	3 17/32	195
3.2	M30 x 3.50	2 9/16	4 1/4	2 3/8	1 25/32	7/8	4 9/32	351
4.3	M33 x 3.50	2 9/16	4 1/4	2 3/8	1 25/32	7/8	4 11/32	368
4.6	M36 x 4.00	2 15/16	4 31/32	2 3/4	2 1/8	1 1/32	5 1/32	518
6.1	M39 x 4.00	2 15/16	4 31/32	2 3/4	2 1/8	1 1/32	5 1/8	586
6.3	M42 x 4.50	3 11/32	5 21/32	3 5/32	2 15/32	1 3/16	5 25/32	888
8	M45 x 4.50	3 11/32	5 21/32	3 5/32	2 15/32	1 3/8	5 29/32	1149
8.6	M48 x 5.00	3 15/16	6 17/32	3 17/32	2 11/16	1 3/8	6 5/8	1393
11.5	M56 x 5.50	4 11/32	7 1/4	3 15/16	3 1/16	1 1/2	7 3/8	1938
16	M64 x 6.00	4 23/32	8 1/8	4 11/32	3 17/32	1 21/32	8 3/16	2734
20	M72 x 6.00	5 29/32	10 1/4	5 1/2	3 15/16	1 31/32	10 1/4	5055

CAD

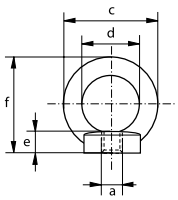
C

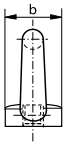
Eye nuts, generally to DIN 582

Generally to DIN 582

- **Material:** carbon steel, C15
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** generally to DIN 582
- **Finish:** electro-galvanized
- **Certification:** 2.1 2.2 CE IIA

E-8142





working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	thickness base	height	weight per 100 pcs
metric t	a mm	b inch	c inch	d inch	e inch	f inch	lbs
0.07	M6 x 1.00	25/32	1 13/32	25/32	11/32	1 13/32	11.24
0.14	M8 x 1.25	25/32	1 13/32	25/32	11/32	1 13/32	11.46
0.23	M10 x 1.50	31/32	1 25/32	31/32	13/32	1 25/32	20.7
0.34	M12 x 1.75	1 3/16	2 1/8	1 3/16	7/16	2 3/32	35.3
0.49	M14 x 2.00	1 3/8	2 15/32	1 3/8	1/2	2 3/8	56
0.7	M16 x 2.00	1 3/8	2 15/32	1 3/8	1/2	2 7/16	53
0.9	M18 x 2.00	1 9/16	2 27/32	1 9/16	5/8	2 25/32	79
1.2	M20 x 2.50	1 9/16	2 27/32	1 9/16	5/8	2 25/32	78
1.5	M22 x 2.50	1 25/32	3 3/16	1 25/32	23/32	3 5/32	114
1.8	M24 x 3.00	1 31/32	3 17/32	1 31/32	25/32	3 17/32	166
2.5	M27 x 3.00	1 31/32	3 17/32	1 31/32	25/32	3 17/32	225
3.2	M30 x 3.50	2 9/16	4 1/4	2 3/8	31/32	4 9/32	276
4.3	M33 x 3.50	2 9/16	4 1/4	2 3/8	31/32	4 9/32	289
4.6	M36 x 4.00	2 15/16	4 31/32	2 3/4	1 3/16	5 1/32	459
6.1	M39 x 4.00	2 15/16	4 31/32	2 3/4	1 3/16	5 1/8	463
6.3	M42 x 4.50	3 11/32	5 21/32	3 5/32	1 3/8	5 25/32	672
8	M45 x 4.50	3 11/32	5 21/32	3 5/32	1 3/8	5 29/32	897
8.6	M48 x 5.00	4 11/32	7 1/4	3 15/16	1 25/32	7 3/8	1107
8.6	M52 x 5.00	4 11/32	7 1/4	3 15/16	1 25/32	7 3/8	1830
11.5	M56 x 5.50	4 11/32	7 1/4	3 15/16	1 25/32	7 3/8	1475
16	M64 x 6.00	4 23/32	8 1/8	4 11/32	1 31/32	8 3/16	2050
21	M72 x 6.00	5 29/32	10 1/4	5 1/2	2 3/8	10 1/4	3307

CAD

FISHING & AQUACULTURE

Applications

Green Pin® Fishing shackles are used for easy and efficient connection of fishing components. Green Pin® aquaculture products are used for aqua-culture applications and are suitable for extreme marine conditions. The cages need to be secured reliably for long periods to safeguard the investment. That's why cages need mooring equipment which is above standard.

Range

Green Pin® offers a wide range of fishing and aquaculture products for a variety of applications. The range stretches from WLL 2 t to 25 t and MBL 30 t up to 170 t. This provides our customers with a very extensive range to choose products that suit their application best. Check out the complete range of fishing and aquaculture products at **www.greenpin.com/aquaculture**.

Design

Green Pin® offers four types of fishing shackles and five types of aquaculture products.
All fishing shackles are in compliance with EN 13889.

These products are generally marked with:

- Working Load Limit / Minimum Breaking Load - e.g. WLL 25 T or MBL 40 T
- manufacturer's symbol - GP
- traceability code - e.g. HA
- steel grade - e.g. 8
- CE conformity code (Conformité Européenne) - e.g. CE
- Origin - e.g. Holland

Finish

Green Pin® fishing shackles are painted or hot dipped galvanized.
The Green Pin® aquaculture products are completely hot dipped galvanized.

Certification

Specific details of certificate availability can be found on each product page.
Please verify your certification requirements at the time of order. All aquaculture products are certified by DNV in compliance with NYTEK regulation and NS 9415. The aquaculture approval certificates provided by DNV can be found at **www.greenpin.com**.

Instructions for use

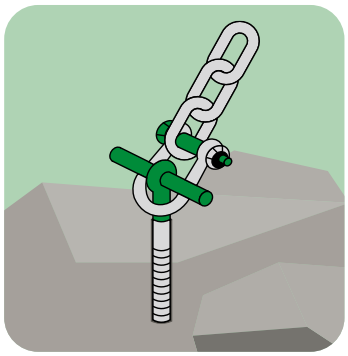
For general (assembly) instructions about shackles we refer to chapter 1, and for master links to chapter 3. For the mooring bolt, please find the specific instructions below.

Fishing and aquaculture products must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by deteriorating conditions such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use), and more frequently when the links are used in severe operating conditions.

Installation of the Green Pin® Mooring Bolt

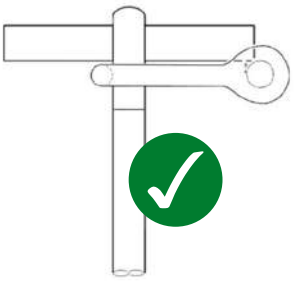
Green Pin® Mooring Bolt NS9415 T must be installed by the use of two-component grouting. The advised grouting to be used is Fosroc® Lokfix S25 or equivalent. Before installation of the Green Pin® Mooring Bolt NS9415, always consult the installation manual of the used grouting and respect the instructions.

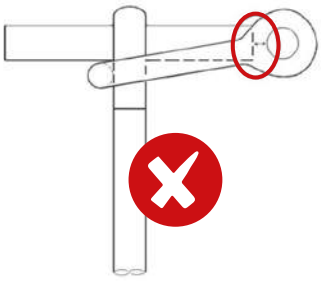
For instructions on how to machine the hole and the application and hardening time of the grouting, please always consult the installation manual of the grouting supplier first. The mounting depth is indicated by the green colour. Install the Mooring Bolt NS9415 T until the green-coloured part is reached.
The green-coloured part may not enter the hole.



Assembly of Green Pin® Shackles to Green Pin® Mooring Bolts

Ensure that the inside length of the chosen shackle is minimized so that the shackle cannot be (dis)assembled from/to the Mooring bolt without disassembling the shackle pin.

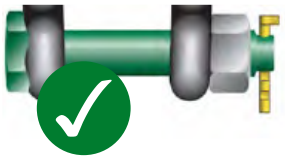


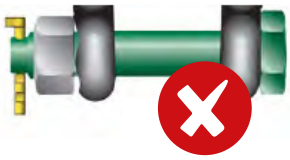


In any case; Shackles and mooring bolts that are connected to each other shall have dimensions that are adapted to each other, in order to prevent any increase in the risk of damage and fish escape.

Assembly of Green Pin® Mooring Shackles

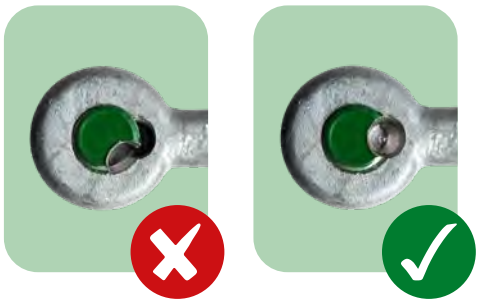
Green Pin® Mooring Shackle is equipped with a chamber in which the pinhead will fit. During assembling the pinhead will block in the chamber which facilitates easier assembling. Please note that it is not allowed to fit the nut into this chamber.





Assembly of Green Pin® Safety Plug

Please also consult chapter 1: shackles for general user instructions on the screw pin shackles, including the Green Pin® Dee Shackle NS9415 FP.



1. Assemble the shackle pin and secure it hand tight;

2. When a misalignment of the drilled hole can be seen, fasten the pin further using the Green Pin® Sunken hole key until the drilled hole is aligned;

3. Insert the Green Pin® safety plug, with the blind side first, using a small nylon hammer; Make sure that the safety plug is completely inserted into the drilled hole.

Disassembly of Green Pin® Safety Plug

There are two ways in which the safety plug can be disassembled:

1. Using a screw and cordless drill

Use force to break the plug screw the $^{5}/_{32}$ x 1 inch screw into the centre hole of the safety plug till you reach the (steel) bottom of the drilled hole. By continuing the screwing, the rotating effect will force the plug to come out of the hole automatically;

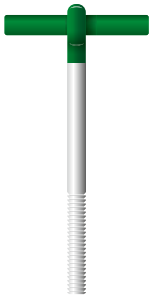
2. Use force to break the plug

Use the square key to break the plug. If needed, a cheater pipe can be used to increase the force on the plug.

Green Pin® Mooring Bolt NS9415 T

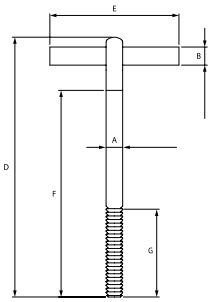
Bolt with T-shaped end-fitting

Scan for additional product details



G-8310

- **Material:** high tensile steel, grade 80, quenched and tempered
- **Standard:** NYTEK regulation and NS 9415
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA DNV NS 9415
- **Article code:** scan QR code to see article codes



minimum breaking load	diameter bolt	diameter crossing bar	diameter eye	length	width	mounting depth	length mounting thread	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
40	1 1/4	1 3/8	2 7/8	19 13/16	9 27/32	15 3/4	6 11/16	11.38
60	1 1/2	1 21/32	3 15/32	24 23/32	11 13/16	19 11/16	8 9/32	19.97
80	1 25/32	1 31/32	4 3/32	29 9/32	15 3/4	23 5/8	11 13/16	34.4
100	1 31/32	2 1/4	4 13/32	30 15/32	15 3/4	23 5/8	11 13/16	44.1
130	2 1/4	2 1/4	4 11/16	30 21/32	15 3/4	23 5/8	11 13/16	52
170	2 9/16	2 1/4	5 1/2	35 7/16	15 3/4	27 9/16	13 25/32	72

CAD INFO

CERTIFIED PRODUCT DNV NYTEK NS 9415

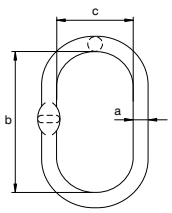
Green Pin® Master Link NS9415 GR8

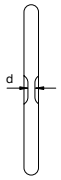
Grade 80 master link acc. to NS 9415

Scan for additional product details

- **Material:** alloy steel, grade 80
- **Standard:** EN 1677-4 and NYTEK regulation and NS 9415
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] DNV NS 9415
- **Article code:** scan QR code to see article codes

G-6870





minimum breaking load	diameter	length inside	width inside	weight each
metric t	a inch	b inch	c inch	lbs
32.8	7/8	6 11/16	3 17/32	3.53
51.5	1 1/8	8 7/32	4 15/32	7.05
68.3	1 1/4	10 5/8	5 1/2	11.68
112.4	1 1/2	10 5/8	5 1/2	17.2

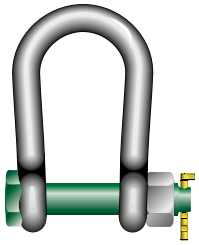
CAD INFO

CERTIFIED PRODUCT DNV NYTEK NS 9415

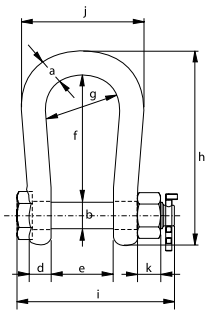
Green Pin® Mooring Bow Shackle NS9415 BN

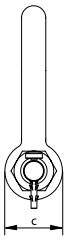
Scan for additional product details

Grade 80 mooring bow shackle with safety bolt and sunken bolt head



G-4863





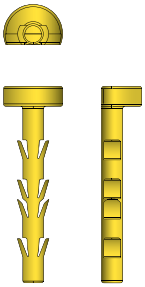
- **Material:** bow and pin alloy steel, grade 80, quenched and tempered
- **Standard:** NYTEK regulation and NS 9415
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA DNV NS 9415
- **Article code:** scan QR code to see article codes
- **Note:** the synthetic cotter pin is available for sizes MBL 30 t up to 90 t and must be ordered separately

minimum breaking load	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
30	3/4	7/8	1 7/8	3/4	1 23/32	3 15/16	2 9/32	6 1/16	4 29/32	3 25/32	3/4	2.95
40	7/8	1	2 1/8	7/8	2 1/16	4 29/32	2 11/16	7 3/8	5 19/32	4 13/32	7/8	4.59
60	1 1/8	1 1/4	2 19/32	1 3/32	2 7/16	5 29/32	3 1/2	8 15/16	7	5 23/32	1 1/16	8.97
90	1 1/4	1 3/8	3	1 1/4	3 7/32	6 11/16	3 27/32	10 5/32	8 5/32	6 3/8	1 3/16	13.12
110	1 5/8	1 3/4	3 17/32	1 21/32	4 13/32	7 7/8	5 29/32	12 7/32	10 9/32	9 7/32	31/32	32.4
150	1 3/4	2	4 1/8	1 25/32	4 29/32	8 27/32	6 7/8	13 11/16	11 11/32	10 7/16	29/32	36.8

CAD INFO

Secure pin for mooring shackles

SPSECUREPIN



CERTIFIED PRODUCT DNV NYTEK NS 9415

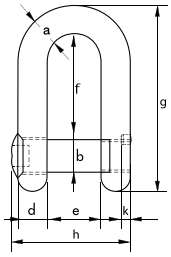
Scan for additional product details

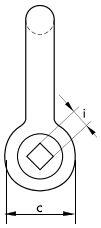
Green Pin® Dee Shackle NS9415 FP

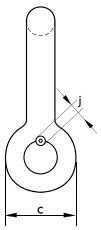
Dee shackle with square sunken hole screw pin (flush) and double safety plug

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 7 x WLL
- **Standard:** NYTEK regulation and NS 9415, ISO 2415, EN 13889, ASME B30.26
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | CE IIA | DNV NS 9415
- **Article code:** scan QR code to see article codes
- **Note:** key for unscrewing the pin and safety plug must be ordered separately

G-4139





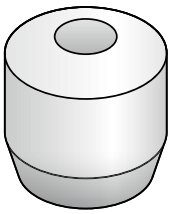


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	size square hole	diameter plug hole	depth plug hole	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	1 11/16	3 3/16	2	7/16	5/16	5/16	0.64
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2	3 13/16	2 15/32	7/16	5/16	5/16	1.32
4.75	3/4	7/8	1 13/16	3/4	1 7/32	2 5/16	4 13/32	2 29/32	7/16	5/16	5/16	2.16
6.5	7/8	1	2 1/16	7/8	1 13/32	2 7/8	5 9/32	3 11/32	1/2	5/16	5/16	2.78
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 11/32	6 1/16	3 29/32	1/2	5/16	5/16	4.72

CAD

Safety plug for screw pin

GPPLUG

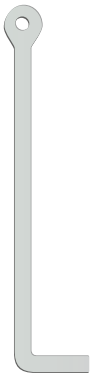


CERTIFIED PRODUCT DNV NYTEK NS 9415

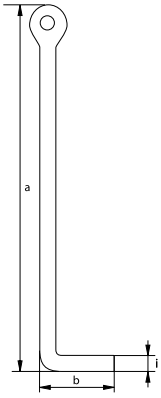
Green Pin® Sunken Hole Key

Accessory for fishing shackle with square sunken hole

Scan for additional product details



E-4170



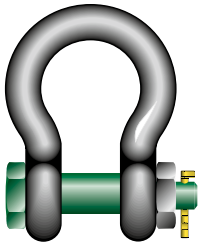
Shackle size

metric t	i inch	a inch	b inch
2- 3.25 - 4.75	13/32	7 15/32	1 25/32
6.5 - 8.5	15/32	9 1/16	1 25/32
9.5 - 17	5/8	11 1/32	1 25/32

Green Pin® Bow Shackle NS9415 BN

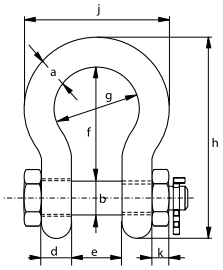
Standard bow shackle with safety bolt acc. to NS 9415

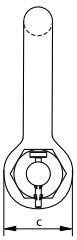
Scan for additional product details



G-4163BG

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** NYTEK regulation and NS 9415, ISO 2415, EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271, Type IVA, Class 3, Grade A
  From 2 t and upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [a] | CE IIA | DNV NS 9415
- **Article code:** scan QR code to see article codes
- **Note:** the synthetic cotter pin is available for sizes WLL 4.75 t up to 12 t and must be ordered separately



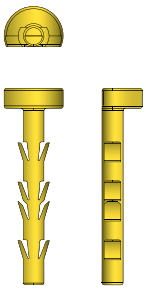


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 1/2	3 7/32	2 9/32	1/2	0.93
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	1.63
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/2	3 1/2	3/4	2.6
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	3.9
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	5.69
9.5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	6 17/32	5 5/32	1 1/16	8.07
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	7	5 25/32	1 3/16	10.82
13.5	1 3/8	1 1/2	3 5/32	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	14.42
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	18.06
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	9 13/16	8 1/2	29/32	30.9

CAD

Secure pin for mooring shackles

SPSECUREPIN



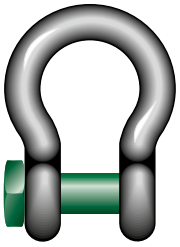
CERTIFIED PRODUCT DNV NYTEK NS 9415

Scan for additional product details

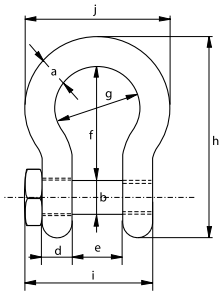
Green Pin® Fishing Bow Shackle SQ

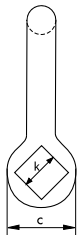
Bow shackle with square headed screw pin

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271, grade A
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



G-4164





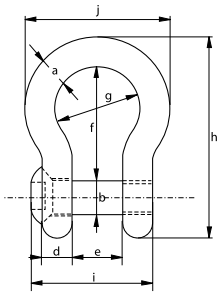
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	width bolt head	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	2 1/4	2 5/16	7/8	0.75
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	2 25/32	2 15/16	1 1/16	1.39
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	3 7/32	3 1/2	1 1/4	2.2
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	3 21/32	4 1/32	1 1/4	3.17
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	4 1/4	4 21/32	1 13/32	4.87
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	4 23/32	5 5/32	1 5/8	7.01
12	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	5 13/32	5 25/32	1 31/32	9.52
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	5 7/8	6 3/8	1 31/32	12.5
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	6 15/32	6 7/8	2 3/8	16.23
25	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	7 9/16	8 1/2	2 3/8	27.3

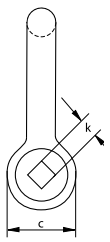
Green Pin® Fishing Bow Shackle FP

Bow shackle with square sunken hole screw pin (flush pin)

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271, grade A
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** key for unscrewing the pin must be ordered separately

G-4169





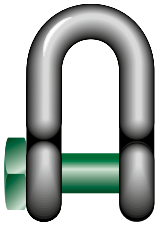
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	size hole head	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 1/2	2	2 5/16	7/16	0.68
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	2 15/32	2 15/16	7/16	1.23
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	2 29/32	3 1/2	7/16	2.12
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	3 11/32	4 1/32	1/2	3.22
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	3 29/32	4 21/32	1/2	4.81
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	4 11/32	5 5/32	21/32	6.26
12	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	4 13/16	5 25/32	21/32	8.62
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	5 23/32	6 7/8	21/32	15.01

Green Pin® Fishing Dee Shackle SQ

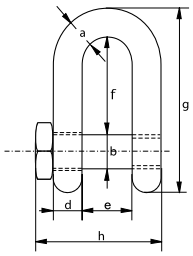
Dee shackle with square headed screw pin

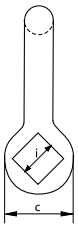
Scan for additional product details

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271, grade A
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



G-4154





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	width bolt head	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	1 11/16	3 7/32	2 1/4	7/8	0.71
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2	3 13/16	2 25/32	1 1/16	1.28
4.75	3/4	7/8	1 13/16	3/4	1 7/32	2 5/16	4 13/32	3 7/32	1 1/4	2.03
6.5	7/8	1	2 1/16	7/8	1 13/32	2 7/8	5 9/32	3 21/32	1 1/4	2.93
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 11/32	6 1/16	4 1/4	1 13/32	4.48
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	3 17/32	6 5/8	4 23/32	1 5/8	6.06
12	1 1/4	1 3/8	2 7/8	1 1/4	2	3 11/16	7 3/32	5 13/32	1 31/32	8.73
13.5	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	4 17/32	8 7/32	5 7/8	1 31/32	11.09
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5	9 1/16	6 15/32	2 3/8	14.99
25	1 3/4	2	4 3/32	1 25/32	2 29/32	5 7/8	10 21/32	7 9/16	2 3/8	24.7

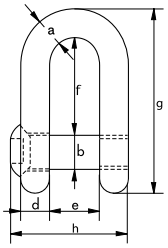
Green Pin® Fishing Dee Shackle FP

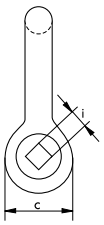
Dee shackle with square sunken hole screw pin (flush pin)

Scan for additional product details

- **Material:** bow and pin high tensile steel, grade 60, quenched and tempered
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** ISO 2415, EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271, grade A
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** key for unscrewing the pin must be ordered separately

G-4159





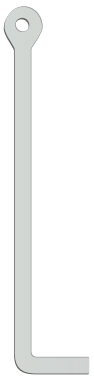
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	size hole head	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
2	1/2	5/8	1 11/32	1/2	7/8	1 11/16	3 7/32	2	7/16	0.64
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2	3 13/16	2 15/32	7/16	1.32
4.75	3/4	7/8	1 13/16	3/4	1 7/32	2 5/16	4 13/32	2 29/32	7/16	2.16
6.5	7/8	1	2 1/16	7/8	1 13/32	2 7/8	5 9/32	3 11/32	1/2	2.78
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 11/32	6 1/16	3 29/32	1/2	4.72
9.5	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	3 17/32	6 5/8	4 11/32	21/32	5.69
12	1 1/4	1 3/8	2 7/8	1 1/4	2	3 11/16	7 3/32	4 13/16	21/32	7.69
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5	9 1/16	5 23/32	21/32	13.71

Green Pin® Sunken Hole Key

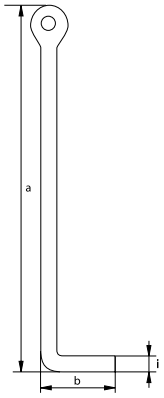
Accessory for fishing shackle with square sunken hole

Shackle size

metric t	i inch	a inch	b inch
2- 3.25 - 4.75	13/32	7 15/32	1 25/32
6.5 - 8.5	15/32	9 1/16	1 25/32
9.5 - 17	5/8	11 1/32	1 25/32



E-4170



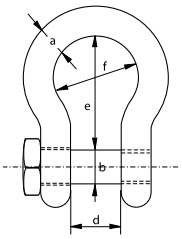
C

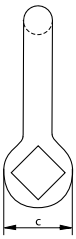
Fishing Shackles

Bow shackle with square head screw pin

- **Material:** mild steel
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted blue
- **Certification:** 2.1 2.2

P-3764





working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
1.5	1/2	5/8	1 1/4	31/32	1 7/8	1 13/32	0.82
2.5	5/8	25/32	1 9/16	1 1/4	2 17/32	1 7/8	1.57
3	25/32	7/8	1 7/8	1 1/2	3 1/8	2 3/8	2.73

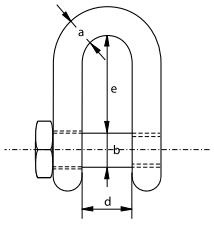
C

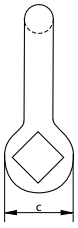
Fishing Shackles

Dee shackle with square head screw pin

- **Material:** mild steel
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted blue
- **Certification:** 2.1 2.2

P-3754





working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
metric t	a inch	b inch	c inch	d inch	e inch	lbs
1.5	1/2	5/8	1 1/4	31/32	1 7/8	0.79
2.5	5/8	25/32	1 9/16	1 1/4	2 17/32	1.52
3	25/32	7/8	1 7/8	1 1/2	2 15/16	2.6
4	7/8	31/32	2 3/32	1 23/32	3 9/32	3.55

WHAT IS
BELOW SURFACE
MUST BE ABOVE
STANDARD.

greenpin.com/aquaculture

TURNBUCKLES

Applications

Turnbuckles are used for rigging or tensioning wires, ropes, rods etc. They are designed for in-line rigging, tensioning or lashing. Green Pin® Turnbuckles (G-6313, G-6323, G-6333, G-6311, G-6312, G-6315 and G-6314) can be used in lifting applications. The closed body rigging screws (G-6343, G-6340 and G-6345) can also be used in lifting applications.

Range

Green Pin® offers a wide range of turnbuckles:
- Load rated Green Pin® turnbuckles;
- Open body rigging screws generally to DIN 1480;
- Rigging screws with welding ends;
- Closed body rigging screws;
- Special turnbuckles for lashing (hamburgers).

Royal Van Beest offers a wide range of other turnbuckles to complement the Green Pin® assortment.

Design

Green Pin® turnbuckles are manufactured to ASTM F1145-92 (formerly U.S. Fed. Spec. FF-T-791). They are drop-forged and available with the following end fittings: eye/eye, hook/hook, hook/eye, jaw/jaw and jaw/eye. All fittings are interchangeable. Locking nuts are supplied with all sizes.

All Green Pin® turnbuckles are generally marked with:
- Working Load Limit - e.g. 2.36 t
- manufacturer's symbol - e.g. GP
- thread diameter - e.g. $^{3}/_{4}$"
- traceability code - e.g. A1
- thread - L (lefthanded) and R (righthanded)

Rigging screws generally to DIN 1480 are available with welding ends and in hook/eye, eye/eye, hook/hook and jaw/jaw combinations. Closed body rigging screws are available in jaw/jaw, jaw/eye and eye/eye combinations.

Finish

Load rated Green Pin® turnbuckles and closed body rigging screws are hot dipped galvanized. Rigging screws to DIN 1480 are electro-galvanized. Lashing turnbuckles are self-coloured.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

Turnbuckles must be used for in-line applications only. Special attention should be paid to prevent overloading. During tensioning, avoid forces on the turnbuckle that may lead to deformation. Should a turnbuckle start to deform, the tension should be decreased immediately and any deformed parts should be replaced. Should extreme circumstances or shock loading, possibly occur during use, this must be taken into account when selecting the correct products to be used for the application.

For the rigging of wires, ropes, rods etc., Green Pin® turnbuckles are recommended to be used. The WLL should be applied in in-line lifting only and overloading is not permitted. Nor should side loads be applied, as the products have not been designed for this purpose.

Open body rigging screws are used for tensioning wires and ropes for less demanding applications (for example rope railings).

Turnbuckles must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the steel structure.

Safe use of turnbuckles

Turnbuckles should be inspected before use to ensure that:
- all markings are legible;
- the threads of the body and the end fittings are of the same type;
- the pin, nut, cotter pin or any other locking system cannot vibrate out of position;
- the threads of the body and the end fittings are undamaged;
- the body and end fittings are not distorted or unduly worn;
- the body and end fittings are free from nicks, gouges and cracks.

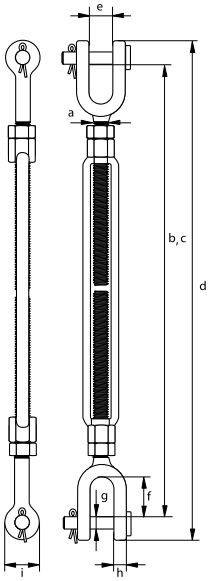
Make sure that the end fittings are correctly screwed into the body. Always use the locking nuts provided to prevent the turnbuckles from unscrewing. Never replace an end fitting by anything other than one designed for the purpose, otherwise the turnbuckle may not be suitable for the loads imposed.

Green Pin® JJ Turnbuckle CP

Turnbuckle with jaw-jaw end-fitting and cotter pins, generally to ASTM F1145-92

Scan for additional product details

G-6313



- **Material:** drop forged high tensile steel SAE 1035 or 1045
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter thread		take up	length closed position	length open position	length closed position	opening jaw	length inside	diameter pin	thickness jaw eye	diameter jaw eye	weight each
metric t	a inch	a mm	inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
2.36	3/4	19	6	14 17/32	19 3/16	17 9/32	15/16	1 1/2	5/8	5/8	1 5/8	5.71
2.36	3/4	19	9	17 15/32	25 3/16	20 1/4	15/16	1 1/2	5/8	5/8	1 5/8	6.9
2.36	3/4	19	12	20 15/32	31 3/16	23 7/32	15/16	1 1/2	5/8	5/8	1 5/8	7.54
2.36	3/4	19	18	26 3/8	43 5/32	29 1/8	15/16	1 1/2	5/8	5/8	1 5/8	9.94
3.27	7/8	22	12	22 3/32	32 17/32	25 1/8	1 1/16	1 21/32	3/4	3/4	1 7/8	10.87
3.27	7/8	22	18	28 1/16	44 9/16	31 3/32	1 1/16	1 21/32	3/4	3/4	1 7/8	14.13
4.54	1	25	6	17 19/32	21 13/16	20 15/16	1 7/32	1 31/32	7/8	25/32	2 1/8	11.42
4.54	1	25	12	23 17/32	33 13/16	26 7/8	1 7/32	1 31/32	7/8	25/32	2 1/8	14.18
4.54	1	25	18	29 17/32	45 31/32	32 7/8	1 7/32	1 31/32	7/8	25/32	2 1/8	17.81
4.5	1	25	24	35 9/16	57 7/8	38 29/32	1 7/32	1 31/32	7/8	25/32	2 1/8	18.87
6.9	1 1/4	32	12	25 1/4	35 31/32	29 7/16	1 23/32	2 25/32	1 5/32	1 1/32	2 11/16	24.7
6.9	1 1/4	32	18	31 5/8	48 11/32	35 13/16	1 23/32	2 25/32	1 5/32	1 1/32	2 11/16	30
6.9	1 1/4	32	24	37 7/8	60 19/32	42 3/32	1 23/32	2 25/32	1 5/32	1 1/32	2 11/16	33.1
9.71	1 1/2	38	12	26 9/16	37 3/32	31 23/32	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	37.7
9.71	1 1/2	38	18	32 15/32	48 31/32	37 5/8	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	42.5
9.71	1 1/2	38	24	38 19/32	61 1/16	43 3/4	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	48.1
12.7	1 3/4	45	18	36 15/16	51 13/16	43	2 3/8	3 3/8	1 5/8	1 5/16	3 17/32	60
12.7	1 3/4	45	24	42 7/8	63 13/16	48 15/16	2 3/8	3 3/8	1 5/8	1 5/16	3 17/32	70
16.8	2	50	24	45 5/16	65 25/32	52 11/16	2 15/32	3 21/32	2	1 9/16	4 7/32	108
27.2	2 1/2	64	24	49 13/32	72 3/32	58 9/32	2 15/16	4 1/2	2 1/4	1 5/8	5 5/8	194
34	2 3/4	69	24	53 1/16	74 3/32	63 5/32	3 17/32	4 11/32	2 3/4	1 5/8	6 7/32	227

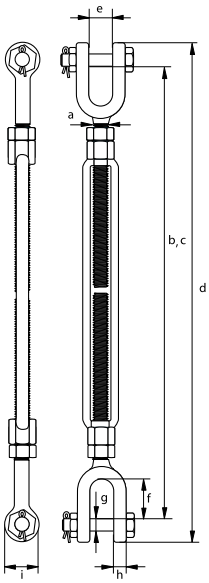
CAD INFO

Green Pin® JJ Turnbuckle BN

Turnbuckle with jaw-jaw end-fitting and safety bolt, generally to ASTM F1145-92

Scan for additional product details

G-6323



- **Material:** drop forged high tensile steel SAE 1035 or 1045
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to ASTM F1145-92
  formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter thread		take up	length closed position	length open position	length closed position	opening jaw	length inside	diameter pin	thickness jaw eye	diameter jaw eye	weight each
metric t	a inch	a mm	inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
0.54	3/8	10	6	10 3/4	16 3/32	11 31/32	15/32	13/16	9/32	11/32	13/16	1.21
1	1/2	12	6	11 31/32	17 1/8	13 1/2	5/8	1 1/32	13/32	7/16	31/32	2.14
1	1/2	12	9	14 29/32	23 5/32	16 15/32	5/8	1 1/32	13/32	7/16	31/32	2.54
1	1/2	12	12	17 29/32	29 1/8	19 7/16	5/8	1 1/32	13/32	7/16	31/32	3.22
1.59	5/8	16	6	13 5/8	18 15/32	15 31/32	23/32	1 1/4	1/2	9/16	1 5/16	3.86
1.59	5/8	16	9	16 9/16	24 1/2	18 29/32	23/32	1 1/4	1/2	9/16	1 5/16	4.72
1.59	5/8	16	12	19 19/32	30 15/32	21 15/16	23/32	1 1/4	1/2	9/16	1 5/16	5.36
2.36	3/4	19	6	14 17/32	19 3/16	17 9/32	15/16	1 1/2	5/8	5/8	1 5/8	5.95
2.36	3/4	19	9	17 15/32	25 3/16	20 1/4	15/16	1 1/2	5/8	5/8	1 5/8	7.12
2.36	3/4	19	12	20 15/32	31 3/16	23 7/32	15/16	1 1/2	5/8	5/8	1 5/8	7.87
2.36	3/4	19	18	26 3/8	43 5/32	29 1/8	15/16	1 1/2	5/8	5/8	1 5/8	10.03
3.27	7/8	22	12	22 3/32	32 17/32	25 1/8	1 1/16	1 21/32	3/4	3/4	1 7/8	11.51
3.27	7/8	22	18	28 1/16	44 9/16	31 3/32	1 1/16	1 21/32	3/4	3/4	1 7/8	14.46
4.54	1	25	6	17 19/32	21 13/16	20 15/16	1 7/32	1 31/32	7/8	25/32	2 1/8	12.21
4.54	1	25	12	23 17/32	33 13/16	26 7/8	1 7/32	1 31/32	7/8	25/32	2 1/8	14.77
4.54	1	25	18	29 17/32	45 31/32	32 7/8	1 7/32	1 31/32	7/8	25/32	2 1/8	18.98
4.5	1	25	24	35 9/16	57 7/8	38 29/32	1 7/32	1 31/32	7/8	25/32	2 1/8	19.56
6.9	1 1/4	32	12	25 5/16	36 1/16	29 7/16	1 23/32	2 25/32	1 3/32	1 1/32	2 11/16	26.2
6.9	1 1/4	32	18	31 11/16	48 7/16	35 13/16	1 23/32	2 25/32	1 3/32	1 1/32	2 11/16	30
6.9	1 1/4	32	24	37 15/16	60 21/32	42 3/32	1 23/32	2 25/32	1 3/32	1 1/32	2 11/16	31.3
9.71	1 1/2	38	12	26 9/16	37 3/32	31 23/32	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	40.8
9.71	1 1/2	38	18	32 15/32	48 31/32	37 5/8	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	42.5
9.71	1 1/2	38	24	38 19/32	61 1/16	43 3/4	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	48.5
12.7	1 3/4	45	18	36 15/16	51 13/16	43	2 3/8	3 3/8	1 5/8	1 5/16	3 17/32	64
12.7	1 3/4	45	24	42 7/8	63 13/16	48 15/16	2 3/8	3 3/8	1 5/8	1 5/16	3 17/32	73
16.8	2	50	24	45 13/32	65 7/8	52 11/16	2 15/32	3 21/32	1 31/32	1 9/16	4 7/32	110
27.2	2 1/2	64	24	49 13/32	72 3/32	58 9/32	2 15/16	4 1/2	2 1/4	1 5/8	5 5/8	194
34	2 3/4	69	24	53 1/16	74 3/32	63 5/32	3 17/32	4 11/32	2 3/4	1 5/8	6 7/32	240

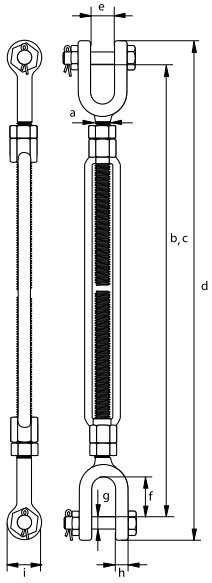
CAD INFO

Green Pin Polar® JJ Turnbuckle BN

Grade 80 turnbuckle with jaw-jaw end-fitting and safety bolt for use under low temperatures, generally to ASTM F1145-92

Scan for additional product details

G-6333



- **Material:** drop forged alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26 generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** jaw ends up to and including 5/8" are fitted with bolts and nuts, sizes 3/4" and up are equipped with bolts, nuts and cotter pins

working load limit	diameter thread		take up	length closed position	length open position	length closed position	opening jaw	length inside	diameter pin	thickness jaw eye	diameter jaw eye	weight each
metric t	a inch	a mm	inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
1	1/2	12	12	17 29/32	29 1/8	19 7/16	5/8	1 1/32	13/32	7/16	31/32	3.04
1.59	5/8	16	12	19 19/32	30 15/32	21 15/16	23/32	1 1/4	1/2	9/16	1 5/16	5.11
2.36	3/4	19	18	26 3/8	43 5/32	29 1/8	15/16	1 1/2	5/8	5/8	1 5/8	10.08
3.27	7/8	22	18	28 1/16	44 9/16	31 3/32	1 1/16	1 21/32	3/4	3/4	1 7/8	14.33
4.54	1	25	18	29 17/32	45 31/32	32 7/8	1 7/32	1 31/32	7/8	25/32	2 1/8	18.52
6.9	1 1/4	32	18	31 11/16	48 7/16	35 13/16	1 23/32	2 25/32	1 3/32	1 1/32	2 11/16	30
9.71	1 1/2	38	18	32 15/32	48 31/32	37 5/8	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	46.5
12.7	1 3/4	45	18	36 15/16	51 13/16	43	2 3/8	3 3/8	1 5/8	1 5/16	3 17/32	66

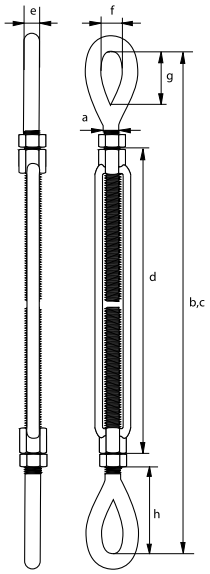
CAD INFO

Green Pin® EE Turnbuckle

Turnbuckle with eye-eye end-fitting, generally to ASTM F1145-92

Scan for additional product details

G-6311



- **Material:** drop forged high tensile steel SAE 1035 or 1045
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to ASTM F1145-92
  formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter thread		take up	length closed position	length open position	length	diameter	width inside	length inside	length closed position	weight each
metric t	a inch	a mm	inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.54	3/8	10	6	11 1/2	16 27/32	7 7/32	13/32	1/2	1 5/32	1 15/16	1.06
1	1/2	12	6	12 25/32	17 29/32	7 19/32	15/32	23/32	1 13/32	2 9/32	1.79
1	1/2	12	9	15 3/4	23 15/16	10 5/8	15/32	23/32	1 13/32	2 1/4	2.36
1	1/2	12	12	18 3/4	29 29/32	13 5/8	15/32	23/32	1 13/32	2 1/4	2.84
1.59	5/8	16	6	14 31/32	19 13/16	8	9/16	13/16	1 25/32	3 1/8	2.93
1.59	5/8	16	9	17 29/32	25 13/16	11 1/32	9/16	13/16	1 25/32	3 1/16	3.55
1.59	5/8	16	12	20 29/32	31 13/16	14 1/32	9/16	13/16	1 25/32	3 1/16	4.32
2.36	3/4	19	6	16 1/4	20 15/16	8 7/16	21/32	1 1/32	2 1/8	3 1/2	4.48
2.36	3/4	19	9	19 9/32	26 31/32	11 15/32	21/32	1 1/32	2 1/8	3 1/2	5.45
2.36	3/4	19	12	22 7/32	32 15/16	14 7/16	21/32	1 1/32	2 1/8	3 15/32	6.39
2.36	3/4	19	18	28 9/32	45	20 7/16	21/32	1 1/32	2 1/8	3 1/2	8.69
3.27	7/8	22	12	23 25/32	34 1/4	14 27/32	25/32	1 1/4	2 13/32	3 31/32	9.5
3.27	7/8	22	18	29 3/4	46 7/32	20 13/16	25/32	1 1/4	2 13/32	3 31/32	12.15
4.54	1	25	6	19 19/32	23 25/32	9 7/32	15/16	1 15/32	3	4 21/32	9.33
4.54	1	25	12	25 9/16	35 25/32	15 1/4	15/16	1 15/32	3	4 19/32	12.68
4.54	1	25	18	31 17/32	47 27/32	21 7/32	15/16	1 15/32	3	4 19/32	16.03
4.5	1	25	24	37 15/32	59 3/4	27 1/4	15/16	1 15/32	3	4 9/16	17.2
6.9	1 1/4	32	12	28 1/32	38 25/32	15 5/32	1 5/32	1 27/32	3 19/32	5 23/32	20.5
6.9	1 1/4	32	18	33 15/16	50 21/32	21 5/32	1 5/32	1 27/32	3 19/32	5 21/32	24.5
6.9	1 1/4	32	24	39 31/32	62 11/16	27 5/32	1 5/32	1 27/32	3 19/32	5 21/32	26.7
9.71	1 1/2	38	12	29 3/4	40 9/32	15 25/32	1 1/4	2 5/32	4 3/16	6 5/32	27.8
9.71	1 1/2	38	18	36 1/16	52 9/16	21 25/32	1 1/4	2 5/32	4 3/16	6 5/16	34.8
9.71	1 1/2	38	24	41 15/16	64 13/32	27 25/32	1 1/4	2 5/32	4 3/16	6 7/32	38.1
12.7	1 3/4	45	18	40 5/32	54 31/32	22 23/32	1 1/2	2 13/32	4 23/32	7 3/4	53
12.7	1 3/4	45	24	46 3/32	67 1/16	28 3/4	1 1/2	2 13/32	4 23/32	7 23/32	59
16.8	2	50	24	49 3/4	70 1/4	29 7/16	1 13/16	2 23/32	5 25/32	9 1/16	84
27.2	2 1/2	64	24	56 5/16	76 5/32	31 9/16	2	3 5/32	6 1/2	10 25/32	143
34	2 3/4	69	24	57 3/32	78 9/32	31 9/16	2 1/4	3 5/16	7	11 3/16	185

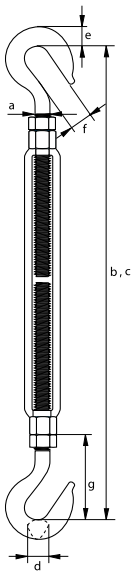
CAD INFO

Green Pin® HH Turnbuckle

Turnbuckle with hook-hook end-fitting, generally to ASTM1145-92

Scan for additional product details

G-6312



- **Material:** drop forged high tensile steel SAE 1035 or 1045
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter thread		take up	length closed position	length open position	thickness hook	thickness hook	opening hook	length closed position	weight each
metric t	a inch	a mm	inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.54	3/8	10	6	10 15/16	16 11/32	1/2	5/8	19/32	1 21/32	1.17
1	1/2	12	6	12	17 3/32	5/8	7/8	5/8	1 7/8	2.05
1	1/2	12	9	14 31/32	23 1/8	5/8	7/8	5/8	1 27/32	2.56
0.68	1/2	12	12	17 15/16	29 3/32	1/2	3/4	5/8	1 27/32	2.95
1.59	5/8	16	6	14 1/32	18 27/32	5/8	29/32	13/16	2 5/8	3.09
1.59	5/8	16	9	16 31/32	24 7/8	25/32	15/16	13/16	2 19/32	4.32
1.59	5/8	16	12	19 31/32	30 7/8	5/8	29/32	13/16	2 19/32	3.95
2.36	3/4	19	6	15 15/32	20 1/8	7/8	1 1/16	15/16	3 1/8	4.5
1.36	3/4	19	9	18 7/16	26 5/32	25/32	1 1/16	15/16	3 1/16	5.49
2.36	3/4	19	12	21 13/32	32 1/8	7/8	1 1/16	15/16	3 1/16	7.21
4.54	1	25	6	18 27/32	23 1/16	1 1/32	1 3/8	1 7/32	4 9/32	9.33
4.54	1	25	12	24 19/32	34 7/8	1 1/32	1 3/8	1 7/32	4 3/16	14.64
2.27	1	25	18	30 5/8	46 7/8	1 1/32	1 3/8	1 7/32	4 3/16	14.33
2.27	1	25	24	36 17/32	58 27/32	1 1/32	1 3/8	1 7/32	4 1/8	17.92

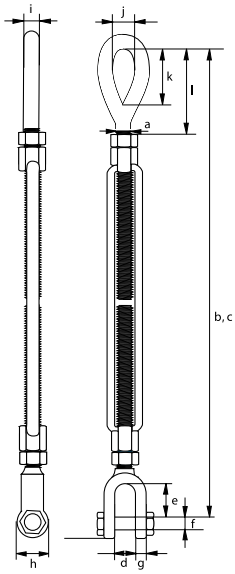
CAD INFO

Green Pin® EJ Turnbuckle

Turnbuckle with eye-jaw end-fitting and cotter pin or safety bolt (depending on size), generally to ASTM1145-92

Scan for additional product details

G-6315



- **Material:** drop forged high tensile steel SAE 1035 or 1045
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to ASTM F1145-92
  formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter thread		take up	length closed position	length open position	opening jaw	length inside jaw	diameter pin jaw	thickness eye jaw	diameter eye jaw	diameter eye	width inside eye	length inside eye	length closed position	weight each
metric	a	a		b	c	d	e	f	g	h	i	j	k	l	
t	inch	mm	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
0.54	3/8	10	6	11 5/32	16 15/32	15/32	13/16	5/16	11/32	13/16	13/32	1/2	1 5/32	1 15/16	1.15
1	1/2	12	6	12 13/32	17 9/16	5/8	1 1/32	13/32	7/16	31/32	15/32	23/32	1 13/32	2 9/32	1.94
1	1/2	12	9	15 11/32	23 17/32	5/8	1 1/32	13/32	7/16	31/32	15/32	23/32	1 13/32	2 1/4	2.49
1	1/2	12	12	18 11/32	29 9/16	5/8	1 1/32	13/32	7/16	31/32	15/32	23/32	1 13/32	2 1/4	3.02
1.59	5/8	16	6	14 9/32	19 1/8	23/32	1 1/4	1/2	9/16	1 5/16	9/16	13/16	1 25/32	3 1/8	3.42
1.59	5/8	16	9	17 1/4	25 5/32	23/32	1 1/4	1/2	9/16	1 5/16	9/16	13/16	1 25/32	3 1/16	3.55
1.59	5/8	16	12	20 1/4	31 3/32	23/32	1 1/4	1/2	9/16	1 5/16	9/16	13/16	1 25/32	3 1/16	4.78
2.36	3/4	19	6	15 13/32	20 3/32	15/16	1 1/2	5/8	5/8	1 5/8	21/32	1 1/32	2 1/8	3 1/2	5.03
2.36	3/4	19	9	18 3/8	26 3/32	15/16	1 1/2	5/8	5/8	1 5/8	21/32	1 1/32	2 1/8	3 1/2	6.22
2.36	3/4	19	12	21 11/32	32 3/32	15/16	1 1/2	5/8	5/8	1 5/8	21/32	1 1/32	2 1/8	3 15/32	6.97
2.36	3/4	19	18	27 5/16	44 3/32	15/16	1 1/2	5/8	5/8	1 5/8	21/32	1 1/32	2 1/8	3 1/2	9.04
3.27	7/8	22	12	22 15/16	33 3/8	1 1/16	1 21/32	3/4	3/4	1 7/8	25/32	1 1/4	2 13/32	3 31/32	9.04
3.27	7/8	22	18	28 15/16	45 13/32	1 1/16	1 21/32	3/4	3/4	1 7/8	25/32	1 1/4	2 13/32	3 31/32	12.87
4.54	1	25	6	18 5/8	22 25/32	1 7/32	1 31/32	7/8	25/32	2 1/8	15/16	1 15/32	3	4 21/32	10.14
4.54	1	25	12	24 5/8	34 13/16	1 7/32	1 31/32	7/8	25/32	2 1/8	15/16	1 15/32	3	4 19/32	13.6
4.54	1	25	18	30 9/16	46 27/32	1 7/32	1 31/32	7/8	25/32	2 1/8	15/16	1 15/32	3	4 19/32	15.65
4.5	1	25	24	36 17/32	58 13/16	1 7/32	1 31/32	7/8	25/32	2 1/8	15/16	1 15/32	3	4 9/16	18.41
6.9	1 1/4	32	12	26 21/32	37 13/32	1 23/32	2 25/32	1 5/32	1 1/32	2 11/16	1 5/32	1 27/32	3 19/32	5 23/32	22.9
6.9	1 1/4	32	18	32 25/32	49 17/32	1 23/32	2 25/32	1 5/32	1 1/32	2 11/16	1 5/32	1 27/32	3 19/32	5 21/32	25.4
6.9	1 1/4	32	24	38 15/16	61 21/32	1 23/32	2 25/32	1 5/32	1 1/32	2 11/16	1 5/32	1 27/32	3 19/32	5 21/32	29.1
9.71	1 1/2	38	12	28 3/16	38 11/16	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	1 1/4	2 5/32	4 3/16	6 5/32	30.6
9.71	1 1/2	38	18	34 9/32	50 25/32	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	1 1/4	2 5/32	4 3/16	6 5/16	36.8
9.71	1 1/2	38	24	40 9/32	62 3/4	2 1/16	2 25/32	1 3/8	1 3/32	3 5/32	1 1/4	2 5/32	4 3/16	6 7/32	43.4
12.7	1 3/4	45	18	38 17/32	53 3/8	2 3/8	3 3/8	1 5/8	1 5/16	3 17/32	1 1/2	2 13/32	4 23/32	7 3/4	55
12.7	1 3/4	45	24	44 1/2	65 7/16	2 3/8	3 3/8	1 5/8	1 5/16	3 17/32	1 1/2	2 13/32	4 23/32	7 23/32	64
16.8	2	50	24	47 9/16	68 1/32	2 15/32	3 21/32	2	1 9/16	4 7/32	1 13/16	2 23/32	5 25/32	9 1/16	93
27.2	2 1/2	64	24	52 7/8	74 3/4	2 15/16	4 1/2	2 1/4	1 5/8	5 5/8	2	3 5/32	6 1/2	10 25/32	151
34	2 3/4	69	24	55 3/32	76 7/8	3 17/32	4 11/32	2 3/4	1 5/8	6 7/32	2 1/4	3 5/16	7	11 3/16	205

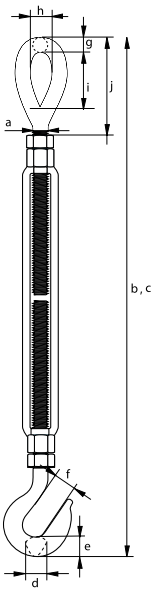
CAD INFO

Green Pin® EH Turnbuckle

Turnbuckle with eye-hook end-fitting, generally to ASTM F1145-92

Scan for additional product details

G-6314



- **Material:** drop forged high tensile steel SAE 1035 or 1045
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Temperature range:** -4 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter thread		take up	length closed position	length open position	thickness hook	thickness hook	opening hook	diameter eye	width inside eye	length inside eye	length closed position	weight each
metric t	a inch	a mm	inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
0.54	3/8	10	6	11 7/32	16 5/8	1/2	5/8	19/32	13/32	1/2	1 5/32	1 15/16	0.88
1	1/2	12	6	12 13/32	17 17/32	5/8	7/8	5/8	15/32	23/32	1 13/32	2 9/32	1.61
1	1/2	12	9	15 11/32	23 17/32	5/8	7/8	5/8	15/32	23/32	1 13/32	2 1/4	1.96
0.68	1/2	12	12	18 11/32	29 17/32	1/2	3/4	5/8	15/32	23/32	1 13/32	2 1/4	2.31
1.59	5/8	16	6	14 1/2	19 11/32	5/8	29/32	13/16	9/16	13/16	1 25/32	3 1/8	2.45
1.59	5/8	16	9	17 7/16	25 11/32	25/32	15/16	13/16	9/16	13/16	1 25/32	3 1/16	3.06
1.59	5/8	16	12	20 7/16	31 11/32	5/8	29/32	13/16	9/16	13/16	1 25/32	3 1/16	3.95
2.36	3/4	19	6	15 7/8	20 1/2	7/8	1 1/16	15/16	21/32	1 1/32	2 1/8	3 1/2	4.03
1.36	3/4	19	9	18 27/32	26 9/16	25/32	1 1/16	15/16	21/32	1 1/32	2 1/8	3 1/2	5.07
2.36	3/4	19	12	21 13/16	32 9/16	7/8	1 1/16	15/16	21/32	1 1/32	2 1/8	3 15/32	5.07
4.54	1	25	6	19 7/32	23 7/16	1 1/32	1 3/8	1 7/32	15/16	1 13/32	2 15/16	4 21/32	8.6
4.54	1	25	12	25 1/32	35 5/16	1 1/32	1 3/8	1 7/32	15/16	1 13/32	2 15/16	4 19/32	12.08
2.27	1	25	18	31 1/16	47 5/16	1 1/32	1 3/8	1 7/32	15/16	1 13/32	2 15/16	4 19/32	13.23
2.27	1	25	24	36 31/32	59 9/32	1 1/32	1 3/8	1 7/32	15/16	1 13/32	2 15/16	4 9/16	16.58

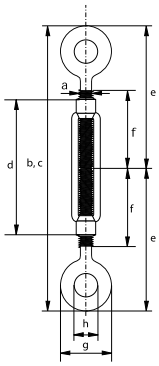
CAD INFO

C

Rigging screws Eye-Eye

According to DIN 1480

E-6351



- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** electro-galvanized
- **Certification:** 2.1

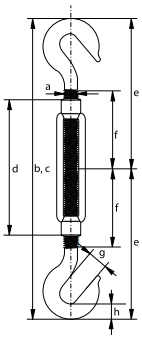
diameter thread	length closed position	length open position	length body	length end fitting	length thread	diameter eye outside	diameter eye inside	weight each
a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
M5	4 1/2	6 11/16	2 3/4	2 1/4	1 3/8	5/8	5/16	0.15
M6	6 5/16	9 11/16	4 11/32	3 5/32	2 5/32	25/32	11/32	0.24
M8	6 5/8	9 3/4	4 11/32	3 5/16	2 1/4	7/8	13/32	0.44
M10	8 9/32	11 13/16	4 29/32	4 1/8	2 11/16	1 7/32	9/16	0.62
M12	8 3/4	12	4 29/32	4 11/32	2 3/4	1 3/8	5/8	0.95
M14	9 19/32	13 5/32	5 1/2	4 27/32	2 15/16	1 9/16	23/32	1.34
M16	11 13/16	16 3/8	6 11/16	5 5/8	3 15/32	1 27/32	7/8	2.2
M20	13 5/32	18 11/32	7 7/8	6 1/2	4 1/8	2 1/16	15/16	3.53
M22	14 21/32	20 3/4	8 21/32	7 9/32	4 21/32	2 3/8	1 1/16	4.85
M24	16 5/32	23 1/8	10 1/32	8 3/16	5 5/16	2 9/16	1 1/16	6.17
M30	17 5/16	23 13/16	10 1/32	8 21/32	5 5/16	2 25/32	1 7/32	9.04
M33	19 9/32	27 5/32	11 5/8	9 21/32	5 13/16	3 15/32	1 13/32	13.23
M36	21 13/16	29 1/8	11 5/8	10 29/32	6 7/32	3 11/16	1 1/2	18.74
M42	23 5/8	31 1/2	13	11 13/16	6 11/16	4 11/32	1 15/16	24.3

C

Rigging screws Hook-Hook

According to DIN 1480

E-6352



- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** electro-galvanized
- **Certification:** 2.1

diameter thread	length closed position	length open position	length body	length end fitting	length thread	opening hook	thickness hook	weight each
a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
M6	7 1/4	10 5/8	4 11/32	3 5/8	2 5/32	5/16	19/32	0.24
M8	7 7/8	11 1/32	4 11/32	3 15/16	2 1/4	13/32	19/32	0.44
M10	9 7/32	12 23/32	4 29/32	4 19/32	2 11/16	1/2	7/16	0.62
M12	10 1/4	13 1/2	4 29/32	5 1/8	2 3/4	5/8	1/2	0.95
M14	10 15/16	14 1/2	5 1/2	5 15/32	2 15/16	23/32	19/32	1.34
M16	12 11/16	17 1/4	6 11/16	6 11/32	3 15/32	25/32	21/32	2.2
M20	15 1/32	20 1/4	7 7/8	7 17/32	4 1/8	13/16	13/16	3.53
M22	17 15/16	23 21/32	8 21/32	8 31/32	4 21/32	15/16	1 3/32	4.85
M24	19 17/32	26 1/2	10 1/32	9 3/4	5 5/16	1 1/32	1 5/16	6.17
M30	21 21/32	28 5/32	10 1/32	10 13/16	5 5/16	1 11/32	1 3/8	9.04
M33	23 5/8	31 15/32	11 5/8	11 13/16	5 13/16	1 1/2	1 9/16	13.23
M36	25 3/16	32 15/32	11 5/8	12 19/32	6 7/32	1 13/16	1 25/32	18.3

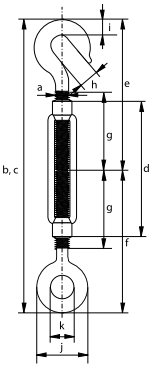
C

Rigging screws Eye-Hook

According to DIN 1480

- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** electro-galvanized
- **Certification:** 2.1

E-6354



diameter thread	length closed position	length open position	length body	length end fitting	length end fitting	length thread	opening hook	thickness hook	diameter eye outside	diameter eye inside	weight each
a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
M5	4 29/32	7 3/32	2 3/4	2 7/32	2 1/4	1 3/8	9/32	15/32	5/8	5/16	0.15
M6	6 25/32	10 5/32	4 11/32	3 1/32	3 5/32	2 5/32	5/16	19/32	25/32	11/32	0.24
M8	7 1/4	10 13/32	4 11/32	3 11/32	3 5/16	2 1/4	13/32	19/32	7/8	13/32	0.44
M10	8 3/4	12 1/4	4 29/32	4 3/16	4 1/8	2 11/16	1/2	7/16	1 7/32	9/16	0.62
M12	9 1/2	12 3/4	4 29/32	4 19/32	4 3/8	2 3/4	5/8	1/2	1 3/8	5/8	0.95
M14	10 9/32	13 13/16	5 1/2	4 7/8	4 13/16	2 15/16	23/32	19/32	1 9/16	23/32	1.34
M16	12 1/4	16 13/16	6 11/16	5 21/32	5 29/32	3 15/32	25/32	21/32	1 27/32	7/8	2.2
M20	14 3/32	19 9/32	7 7/8	6 11/16	6 9/16	4 1/8	13/16	13/16	2 1/16	15/16	3.53
M22	16 5/16	22	8 21/32	7 7/8	7 5/16	4 21/32	15/16	1 3/32	2 3/8	1 1/16	4.85
M24	17 27/32	24 13/16	10 1/32	8 15/32	8 1/16	5 5/16	1 1/32	1 5/16	2 9/16	1 1/16	6.17
M30	19 1/2	25 31/32	10 1/32	9 7/16	8 21/32	5 5/16	1 11/32	1 3/8	2 25/32	1 7/32	9.04
M33	21 15/32	29 9/32	11 5/8	10 1/4	9 21/32	5 13/16	1 1/2	1 9/16	3 15/32	1 13/32	13.23
M36	23 1/2	30 25/32	11 5/8	10 13/16	10 29/32	6 7/32	1 13/16	1 25/32	3 11/16	1 1/2	18.52

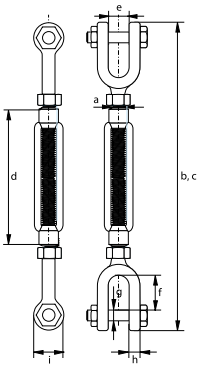
C

Rigging screws Jaw-Jaw

According to DIN 1480

- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** electro-galvanized
- **Note:** supplied with locking nuts
- **Certification:** 2.1

E-6353



diameter thread	length closed position	length open position	length body	opening jaw	length inside	diameter pin	thickness jaw eye	diameter jaw eye	weight each
a mm	b inch	c inch	d inch	e inch	f inch	g mm	h inch	i inch	lbs
M6	7 17/32	10 29/32	4 11/32	9/32	15/32	M6	3/16	1/2	0.35
M8	7 5/8	10 25/32	4 11/32	11/32	15/32	M6	1/4	9/16	0.46
M10	9 9/32	12 25/32	4 29/32	7/16	5/8	M8	5/16	23/32	0.84
M12	10 15/32	13 3/4	4 29/32	1/2	25/32	M10	13/32	15/16	1.46
M14	12 7/16	15 31/32	5 1/2	5/8	1 3/16	M12	15/32	1 3/32	2.54
M16	14 23/32	19 9/32	6 11/16	23/32	1 1/2	M12	15/32	1 1/4	3.2
M20	17 1/4	22 7/16	7 7/8	25/32	1 21/32	M16	5/8	1 1/2	5.75
M22	18 11/32	24 1/16	8 21/32	7/8	1 23/32	M18	23/32	1 9/16	7.14
M24	20 1/4	27 7/32	10 1/32	15/16	1 13/16	M20	25/32	1 21/32	9.59
M30	21 13/32	27 29/32	10 1/32	1 3/16	1 31/32	M24	7/8	1 13/16	14.29

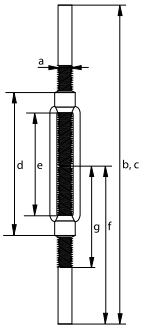
C

Rigging screws with Welding Ends

According to DIN 1480

- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** Body: electro-galvanized
  Welding ends: self-coloured
- **Certification:** 2.1

E-6355



diameter thread	length closed position	length open position	length body	length body inside	length stub-ends	length thread	weight per 100 pcs
a mm	b inch	c inch	d inch	e inch	f inch	g inch	lbs
M6	9 7/16	12 27/32	4 11/32	3 3/8	4 23/32	2 9/16	20.5
M8	9 7/16	12 19/32	4 11/32	3 5/32	4 23/32	2 9/16	30.9
M10	11 13/16	15 5/16	4 29/32	3 1/2	5 29/32	2 15/16	64
M12	11 13/16	15 3/32	4 29/32	3 9/32	5 29/32	2 15/16	88
M14	13	16 17/32	5 1/2	3 17/32	6 1/2	3 11/32	146
M16	15 3/4	20 5/16	6 11/16	4 9/16	7 7/8	3 15/16	196
M20	17 5/16	22 17/32	7 7/8	5 3/16	8 21/32	4 23/32	353
M22	17 5/16	23 1/32	8 21/32	5 23/32	8 21/32	5 1/8	500
M24	20 15/32	27 7/16	10 1/32	6 31/32	10 1/4	5 29/32	622
M30	20 15/32	26 31/32	10 1/32	6 1/2	10 1/4	6 5/16	933
M36	23 5/8	30 23/32	11 5/8	7 9/32	11 13/16	7 3/32	1565

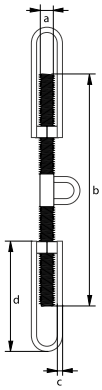
C

Turnbuckles (hamburgers)

For deck lashing

- **Material:** mild steel
- **Finish:** self-coloured
- **Certification:** 2.1

S-6330

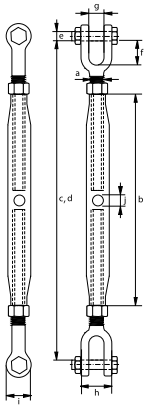


minimum breaking load	diameter thread	length thread	diameter bow	length bow	weight each
metric t	a inch	b inch	c inch	d inch	lbs
13	15/16	15 3/4	5/8	8 9/32	6.17
18	1 1/16	15 3/4	23/32	8 9/32	9.7
20	1 3/16	15 3/4	25/32	8 9/32	11.02
21	1 13/32	15 3/4	25/32	8 9/32	15.43

C

Closed body rigging screws Jaw-Jaw

G-6343



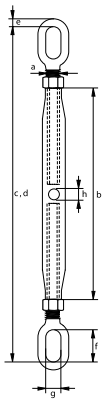
- **Material:** mild steel
- **Safety factor:** MBL equals 5 x WLL,
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** end fittings of M6 and M8 rigging screws are electro-galvanized

working load limit	diameter thread	length body	length closed position	length open position	diameter pin	length inside	opening jaw	width jaw	diameter jaw eye	diameter hole	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
0.2	M6	3 15/16	6 11/16	9 27/32	3/16	3/4	9/32	25/32	1/2	1/4	0.33
0.32	M8	4 1/4	7 27/32	10 31/32	1/4	31/32	11/32	15/16	9/16	5/16	0.57
0.5	M10	4 29/32	8 3/4	12 9/32	5/16	1 1/32	13/32	1 3/32	3/4	5/16	0.99
0.7	M12	7 11/16	12 13/32	18 1/2	13/32	1 1/4	1/2	1 11/32	29/32	13/32	1.87
1.2	M16	9 1/16	15 9/32	22 3/8	15/32	1 17/32	23/32	1 21/32	1 5/32	7/16	3.33
1.5	M20	10 5/8	17 11/16	25 3/4	5/8	1 13/16	25/32	2	1 5/16	15/32	5.78
2.2	M22	11 5/8	19 9/32	28 5/32	25/32	2 5/32	31/32	2 5/32	1 1/2	15/32	8.69
3.2	M24	12 25/32	21 3/16	31 7/32	7/8	2 15/32	1 3/16	2 3/4	1 13/16	15/32	11.38
4.8	M33	14 9/16	26 25/32	38	1 3/16	3 11/32	1 1/2	3 7/32	2 3/8	9/16	25.6
6	M39	15 3/4	27 27/32	39 7/16	1 5/16	3 3/8	1 25/32	3 11/32	3	19/32	31.3
8.5	M45	15 3/4	29 31/32	39 13/16	1 17/32	4 1/8	1 31/32	3 11/16	3 11/32	5/8	45.9
11	M48	15 3/4	30 23/32	39 9/16	1 25/32	4 11/16	2 9/32	3 27/32	3 5/8	5/8	53

C

Closed body rigging screws Eye-Eye

G-6340



- **Material:** mild steel
- **Safety factor:** MBL equals 5 x WLL,
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** end fittings of M6 and M8 rigging screws are electro-galvanized

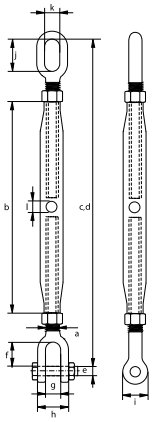
working load limit	diameter thread	length body	length closed position	length open position	diameter	length eye inside	width eye inside	diameter hole	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.2	M6	3 15/16	6 5/16	9 7/16	7/32	7/16	7/16	1/4	0.26
0.32	M8	4 1/4	6 7/8	10 1/32	1/4	15/32	15/32	5/16	0.42
0.5	M10	4 29/32	8 1/16	11 13/16	11/32	1/2	1/2	5/16	0.75
0.7	M12	7 11/16	11 23/32	18 1/32	7/16	3/4	19/32	13/32	1.7
1.2	M16	9 1/16	14 1/32	20 29/32	15/32	1 3/32	25/32	7/16	2.89
1.5	M20	10 5/8	16 21/32	24 23/32	5/8	1 11/32	15/16	15/32	5.2
2.2	M22	11 5/8	18 7/32	27 3/32	5/8	1 11/32	15/16	15/32	6.48
3.2	M24	12 25/32	19 3/4	29 19/32	3/4	1 15/32	1 3/32	15/32	8.51
4.8	M33	14 9/16	23 11/16	34 23/32	1 5/32	1 5/8	1 3/8	9/16	19.73
6	M39	15 3/4	25 5/8	37 7/16	1 3/8	1 25/32	1 9/16	19/32	24.3
8.5*	M45	15 3/4	28 3/8	35 5/16	1 7/32	1 15/16	1 15/16	5/8	29.5
11*	M48	15 3/4	30 3/16	40 5/8	1 15/32	2 1/16	2 1/16	5/8	39.5

* Different design

C

Closed body rigging screws Eye-Jaw

G-6345



- **Material:** mild steel
- **Safety factor:** MBL equals 5 x WLL,
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** end fittings of M6 and M8 rigging screws are electro-galvanized

working load limit	diameter thread	length body	length closed position	length open position	diameter pin	length jaw inside	opening jaw	width jaw	diameter jaw eye	length eye inside	width eye inside	diameter hole	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	lbs
0.2	M6	3 15/16	6 1/2	9 21/32	3/16	3/4	9/32	25/32	1/2	7/16	7/16	1/4	0.31
0.32	M8	4 1/4	7 3/8	10 1/2	1/4	31/32	11/32	15/16	9/16	15/32	15/32	5/16	0.53
0.5	M10	4 29/32	8 7/16	12 1/16	5/16	1 1/32	13/32	1 3/32	3/4	1/2	1/2	5/16	1.17
0.7	M12	7 11/16	12 3/32	18 9/32	13/32	1 1/4	1/2	1 11/32	29/32	3/4	19/32	13/32	1.83
1.2	M16	9 1/16	14 21/32	21 5/8	15/32	1 17/32	23/32	1 21/32	1 5/32	1 3/32	25/32	7/16	3.28
1.5	M20	10 5/8	17 5/32	25 1/4	5/8	1 13/16	25/32	2	1 5/16	1 11/32	15/16	15/32	5.6
2.2	M22	11 5/8	18 25/32	27 19/32	25/32	2 5/32	31/32	2 5/32	1 1/2	1 11/32	15/16	15/32	7.36
3.2	M24	12 25/32	20 15/32	30 13/32	7/8	2 15/32	1 3/16	2 3/4	1 13/16	1 15/32	1 3/32	15/32	10.25
4.8	M33	14 9/16	25 1/4	36 11/32	1 3/16	3 11/32	1 1/2	3 7/32	2 3/8	1 5/8	1 3/8	9/16	23.1
6	M39	15 3/4	26 23/32	38 7/16	1 5/16	3 3/8	1 25/32	3 11/32	3	1 25/32	1 9/16	19/32	28.2
8.5*	M45	15 3/4	29 3/16	37 7/32	1 17/32	4 1/8	1 31/32	3 11/16	3 11/32	1 15/16	1 15/16	5/8	45.9
11*	M48	15 3/4	30 15/32	40 3/32	1 25/32	4 11/16	2 9/32	3 27/32	3 5/8	2 1/16	2 1/16	5/8	53

* Different design

LASHING CHAIN & FITTINGS

Applications

Green Pin® loadbinders and fittings are used for easy and efficient tightening of chain in lashing applications.

Range

Green Pin® offers three types of loadbinders for use with steel chain: two ratchet types and a lever type. Loadbinders are available for various steel chain sizes, ranging from $^{5}/_{16}$ inch to $^{5}/_{8}$ inch, and for fibre chain. The ratchet types can be supplied with two hooks or two eyes as end fittings. A Green Pin Tycan® ratchet loadbinder (grade 100) and fittings are also available, for use with Green Pin Tycan® Lashing Chain. The take-up length of the Green Pin Tycan® ratchet loadbinder has been designed specifically for the use with Green Pin Tycan® Chain. The Green Pin Tycan® ratchet loadbinder is available with a lashing capacity of 16 t.

Design

Green Pin® loadbinders are designed with an ergonomic, easy-to-use handle for simple, single-hand use, and are manufactured from drop forged or cast steel. One ratchet type is equipped with standard chain eye grab hooks, the other type has an improved version of these hooks to reduce chain wear substantially. It is also fitted with a pin to keep the chain in place. The latter type is designed to meet requirements of standard EN 12195-3.

The takeup-length of the Green Pin Tycan® ratchet loadbinder has been designed specifically for the use with Green Pin Tycan® Chain.

Each loadbinder is generally marked with:

- Lashing Capacity - e.g. 10 t
- minimum breaking load - e.g. 21.2 t
- manufacturer's symbol - e.g. GP
- chain diameter in mm and inches - e.g. 13 mm and $^{1}/_{2}$"
- traceability code - e.g. A1
- warning - not for lifting or hoisting applications

As prescribed by the Machinery Directive 2006/42/EC our hooks, master links and connecting links are supplied with a CE Declaration of Incorporation (CE IIB), stating the products are in compliance with the requirements of the machinery directive. These products do not have a CE marking, since CE markings are only to be provided for machines, whereas hooks, master links and connecting links are components of machines, and not machines themselves. Providing components with a CE marking is an incorrect interpretation of the Machinery Directive.

Machinery definition according to Machinery Directive 2006/42/EC – Article 2 – definitions (a) and Machinery Regulation 2023/1230/EU:

"An assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort."

"The maximum working load shall be prominently marked on the lifting machinery. The marking shall be legible, indelible and in an un-coded form. Where the maximum working load depends on the configuration of the lifting machinery, each operating position shall be provided with a load plate indicating, preferably in diagrammatic form or by means of tables, the working load permitted for each configuration."

This definition means that a sling is a Machine and that the hooks, master links and connecting links are not considered as a machine themselves, but as components of a machine. The CE and the WLL markings in consequence, are mandatory only on the assembled sling tag as the sling is the machine according to MD 2006/42/EC. This rule is still valid with the new Machine Regulation 2023/1230 which will replace the MD cited previously within early 2027.

Finish

Green Pin® loadbinders and fittings are painted either red, green or blue.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

Loadbinders, lashing chain and fittings should be inspected before use to ensure that:

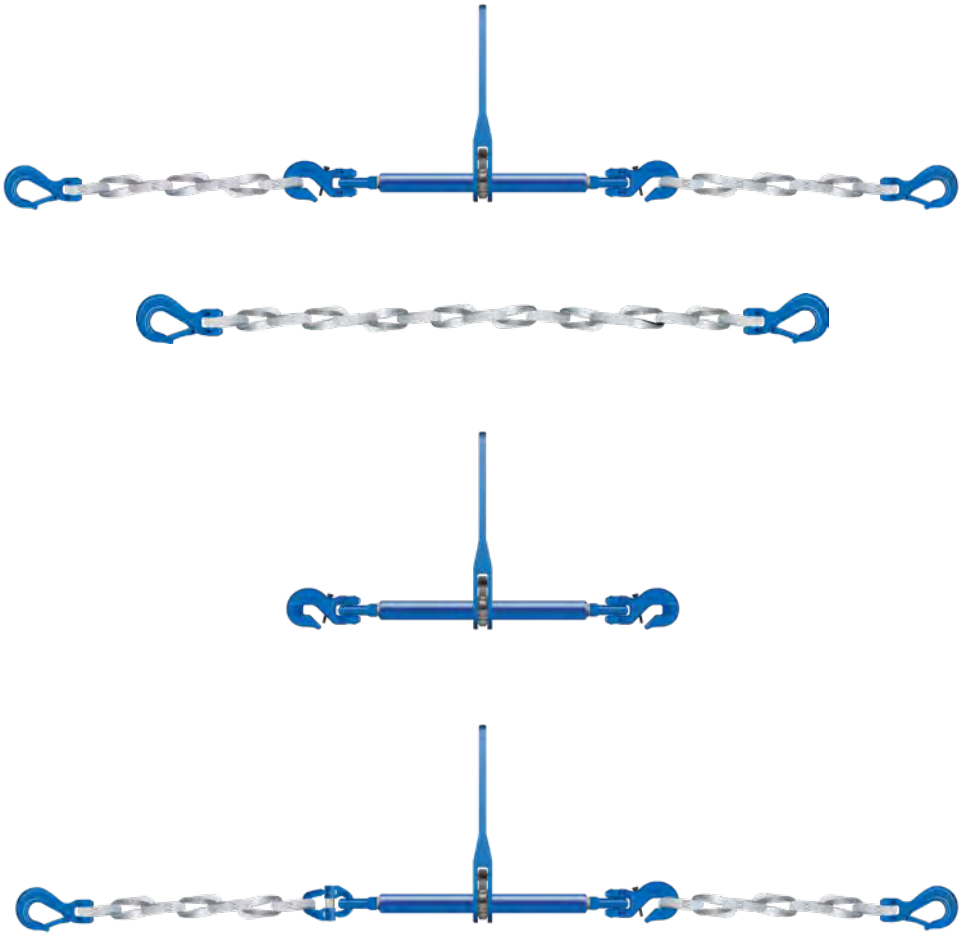
- all markings are legible;
- a loadbinder and/or fitting with the correct Lashing Capacity has been selected. For further details we refer to EN 12195-3, standard for Lashing Chains;
- loadbinders, lashing chain and fittings should never be used for lifting or hoisting applications;
- the loadbinder or fitting should never be side loaded, since these products are suitable for in-line use only;
- the handle or any other locking system cannot vibrate out of position;
- the loadbinder and/or fitting must be hooked to the chain in such a way that you can operate the loadbinder whilst standing on the ground;
- never use a loadbinder while standing on the load;
- always keep yourself out of the path of the moving handle;
- if the handle of the lever type loadbinder cannot reach the correct locked position, never use a cheater pipe. In that case a ratchet type loadbinder must be used;
- in the locked position of a lever type loadbinder the bottom side of the loadbinder should touch the chain link. In this position secure the handle to the chain using the loose end of the chain or a piece of rope or soft wire;
- if the handle of a lever type loadbinder is released by hand, make sure you use an open hand under the handle and push upward. Do not close your hand around the handle. Move the handle with caution since it may whip as it comes free;
- loadbinders and fittings are free from nicks, gouges and cracks;
- loadbinders and fittings may not be heat treated as this may affect their Lashing Capacity;
- never modify, repair or reshape a loadbinder or fitting by machining, welding, heating or bending as this may affect the Lashing Capacity;
- the loadbinder and fitting is used with the correct chain type/size.

		LC 10 t	LC 13.6 t
Loadbinder	P-7180	LCRR25ZHENT	LCRR25ZHENT
Connecting links	UMJT UMJ	GPUMJ13	GPUMJT30
Shorteners	UCRCT	GPUCRCT25	GPUCRCT30
Chain	FCHLASH	FCHLASH1525	FCHLASH1330
Sleeve	SLEEVE	SLEEVE152530 SLEEVE152550	SLEEVE133050
Hooks	UCSCT	GPUCSCT25	GPUCSCT30

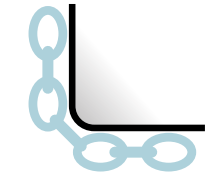
Connect Green Pin Tycan® lashing chain to Green Pin Tycan® lashing sling fittings or to certified components with a maximum surface roughness of 5 microns and adhering to below values:

link size	lashing capacity	minimum pin diameter	minimum clevis width	maximum clevis width
inch	metric t	inch	inch	inch
$^{19}/_{32}$ x 1	10	$^{5}/_{8}$	1 $^{1}/_{32}$	1 $^{7}/_{32}$
$^{1}/_{2}$ x 1 $^{3}/_{16}$	13.6	$^{25}/_{32}$	1 $^{7}/_{32}$	1 $^{15}/_{32}$
$^{19}/_{32}$ x 1 $^{9}/_{16}$	20.6	$^{15}/_{16}$	1 $^{5}/_{8}$	1 $^{7}/_{8}$

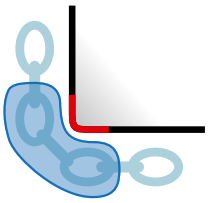
Configuration examples



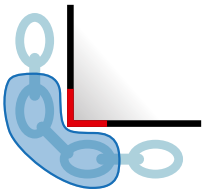
In case of contact between Green Pin Tycan® Lashing Chain and the load or operating material, protective sleeves must be used when the surface edge is 'less' than 1/4 inch radius.



Edge radius more than 1/4 inch;
No protective sleeve
required **but** recommended.

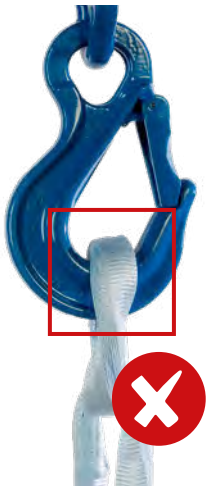


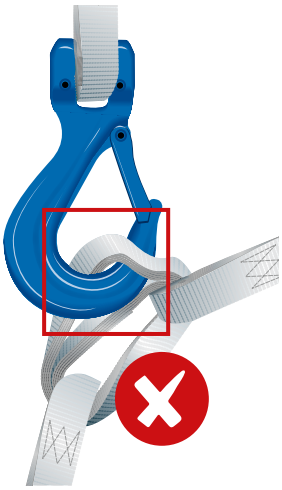
Edge radius less than 1/4 inch;
Protective sleeve **required**.



No obvious edge radius or in doubt;
Protective sleeve **required**.

Connecting Green Pin Tycan® Lashing Chain directly into hooks (components) where the width/clevis is more than required maximum clevis width is not acceptable. Doing so can cause the layers to spread apart, which in the utmost consequence could have a negative effect on the strength of the chain. Also make sure that the hook is not hooked in between the layers of the Green Pin Tycan® link.





Loadbinders and fittings must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the loadbinders, lashing chain and/or fittings are used in severe operating conditions. Regularly lubricate all moving parts of a loadbinder to extend product life and reduce wear.

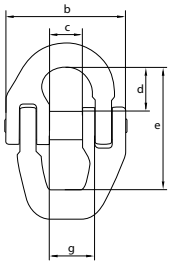
Green Pin Tycan® Connecting Link GR10

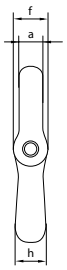
Grade 100 connecting link

Scan for additional product details

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

UMJT





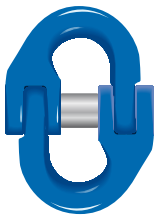
for chain size	lashing capacity	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	diameter	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
1/2 x 1 3/16	13.6	5/8	3 9/32	13/16	1 1/4	3 7/16	15/16	1 3/32	25/32	1.72
19/32 x 1 9/16	20.6	3/4	4 1/16	1	1 9/16	4 7/32	1 3/32	1 11/32	15/16	3.22

CAD

Green Pin® Connecting Link GR10

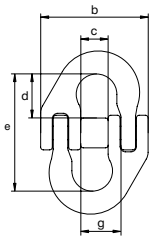
Grade 100 connecting link

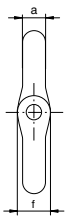
Scan for additional product details



- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UMJ





for chain size	lashing capacity	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
$^{19}/_{32}$ x 1	13.6	$^{5}/_{8}$	3 $^{9}/_{32}$	$^{13}/_{16}$	1 $^{1}/_{4}$	3 $^{11}/_{32}$	$^{15}/_{16}$	1 $^{3}/_{32}$	1.5

CAD INFO

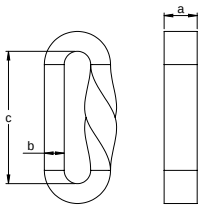
Scan for additional product details

Green Pin Tycan® Lashing Chain

Lashing chain made from Dyneema®

- **Material:** made from 100 % Dyneema®; layers of webbing in a Mobius twist with stitching on each side
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Temperature range:** -76 °F to +158 °F
- **Certification:** 2.1 2.2 MTC [b] DNV TQ
- **Article code:** scan QR code to see article codes

FCHLASH



link size	lashing capacity	width link	thickness link	length inside	links per foot	elongation at MBL	weight per meter	layers
inch	metric t	a inch	b inch	c inch		%	lbs	
19/32 x 1	10	31/32	19/32	3 15/16	3	5	1.32	8
1/2 x 1 3/16	13.6	1 3/16	1/2	4 29/32	2.4	5	1.98	7
19/32 x 1 9/16	20.6	1 9/16	19/32	6 7/8	1.8	5	2.47	7

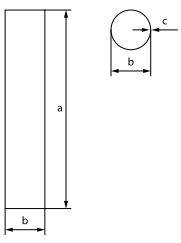
CAD INFO

Green Pin Tycan® Sleeve

Sleeve made from Dyneema®

- **Material:** 100 % Dyneema®
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes

SLEEVE



for chain size	length	diameter	thickness	weight each
inch	a inch	b inch	c inch	lbs
19/32 x 1	19 11/16	2 3/8	1/32	0.09
1/2 x 1 3/16	19 11/16	2 9/16	1/32	0.13
19/32 x 1 9/16	19 11/16	2 15/16	1/32	0.22

INFO

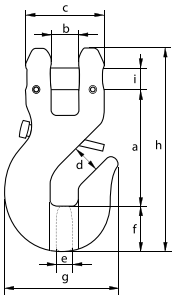
Scan for additional product details

Green Pin Tycan® Grab Hook CL GR10

Grade 100 clevis grab hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** GPUCRCT25 and GPUCRCT30 can also be directly connected with Green Pin Tycan® loadbinder (P-7180)

UCRCT



for chain size	lashing capacity	length	width	width outside	opening	thickness	width	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
19/32 x 1	10	4 1/32	15/16	2 11/16	31/32	5/8	1 9/16	3 29/32	7	25/32	4.41
1/2 x 1 3/16	13.6	3 15/16	1 1/4	2 29/32	1 3/16	25/32	1 9/16	4 1/32	6 31/32	25/32	4.28
19/32 x 1 9/16	20.6	5 1/32	1 21/32	3 25/32	1 9/16	15/16	1 3/4	5	8 17/32	15/16	7.43

CAD INFO

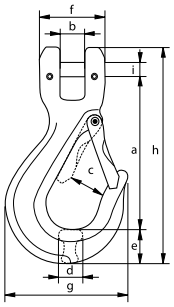
0

Green Pin Tycan® Sling Hook CL GR10

Grade 100 clevis sling hook

- **Material:** alloy steel, grade 100, quenched and tempered
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** follows the EN1677 with grade 100 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** GPUCRCT25 and GPUCRCT30 can also be directly connected with Green Pin Tycan® loadbinder (P-7180)

UCSCT



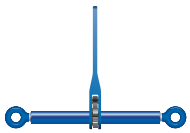
for chain size	lashing capacity	length	width	width opening	thickness	width	width outside	width outside	length outside	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
19/32 x 1	10	5 29/32	15/16	1 15/32	1 5/32	1 3/8	2 11/16	4 27/32	8 21/32	25/32	4.74
1/2 x 1 3/16	13.6	6 1/4	1 1/4	1 15/32	1 1/4	1 17/32	2 29/32	5 1/4	9 1/4	25/32	5.64
19/32 x 1 9/16	20.6	7 9/32	1 21/32	1 25/32	1 9/16	1 11/16	3 25/32	6 1/2	10 21/32	15/16	9.37

CAD INFO

Scan for additional product details

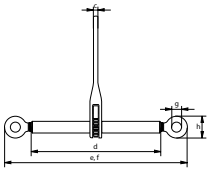
Green Pin Tycan® Ratchet Loadbinder GR10

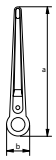
Grade 100 ratchet type loadbinder



- **Material:** drop forged, grade 100
- **Safety factor:** MBL equals 2x Lashing Capacity
- **Standard:** EN 12195-3
- **Finish:** painted blue
- **Certification:** 2.1 2.2
- **Article code:** scan QR code to see article codes
- **Note:** Stf = 3000daN
  UCRCT or UMJT are necessary to connect the loadbinder with the Green Pin Tycan® chain

P-7180



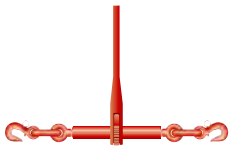


chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	inch	metric t	metric t	metric t	lbs
19/32 x 1	15 1/4	2 9/16	19/32	16 5/32	33 25/32	21 21/32	1 3/16	2 17/32	11 13/16	16	20	32	11.4
1/2 x 1 3/16	15 1/4	2 9/16	19/32	16 5/32	33 25/32	21 21/32	1 3/16	2 17/32	11 13/16	16	20	32	11.4

CAD

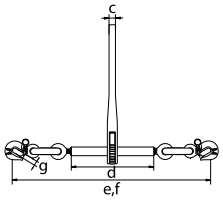
Green Pin® Ratchet Loadbinder HK EN 12195-3

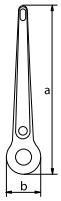
Ratchet type loadbinder with hooks according to EN 12195-3



- **Material:** drop forged, grade 80
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** EN 12195-3
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Article code:** scan QR code to see article codes
- **Note:** Stf = 3000 daN

P-7170





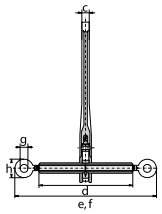
chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	inch	metric t	metric t	metric t	lbs
5/16	15 1/4	2 9/16	19/32	10 1/32	28 15/16	22 5/8	7/16	6 5/16	4	5	8	10.71
3/8	15 1/4	2 9/16	19/32	10 1/32	29 29/32	23 7/16	1/2	6 1/2	6.3	7.9	12.6	11.29
1/2	15 1/4	2 9/16	19/32	10 1/4	33 1/16	27 5/32	5/8	5 29/32	10	12.5	21.2	16.87
5/8	15 1/4	2 9/16	19/32	10 1/4	33 1/16	27 5/32	3/4	5 29/32	16	20	32.2	21.3

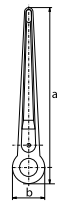
Scan for additional product details

Green Pin® Ratchet Loadbinder EN 12195-3

Ratchet type loadbinder without hooks according to EN 12195-3

P-7190



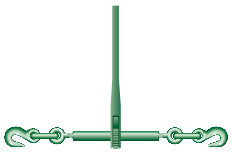


- **Material:** drop forged, grade 80
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** EN 12195-3
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Article code:** scan QR code to see article codes
- **Note:** Stf = 3000 daN

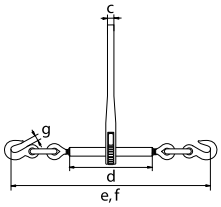
chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	inch	metric t	metric t	metric t	lbs
5/16	15 1/4	2 9/16	19/32	10 1/32	21 1/32	14 23/32	23/32	1 31/32	6 5/16	4	5	8	7.3
3/8	15 1/4	2 9/16	19/32	10 1/32	21 3/8	14 29/32	25/32	2 5/32	6 15/32	6.3	7.9	12.6	7.74
1/2	15 1/4	2 9/16	19/32	10 1/4	22 7/32	16 5/16	1 1/32	2 19/32	5 29/32	10	12.5	21.2	8.73
5/8	15 1/4	2 9/16	19/32	10 1/4	22 7/32	16 17/32	1 3/16	2 25/32	5 21/32	16	20	32.2	9.06

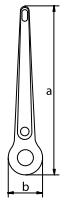
Green Pin® Ratchet Loadbinder HK

Ratchet type loadbinder with hooks



P-7130





- **Material:** drop forged/cast steel
- **Safety factor:** MBL equals 3.5 x Lashing Capacity
- **Finish:** painted red or green
- **Certification:** 2.1 2.2
- **Article code:** scan QR code to see article codes

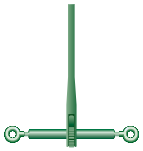
chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	inch	metric t	metric t	metric t	lbs
5/16 - 3/8	15 5/32	2 9/16	19/32	10 1/32	28 15/16	22 5/8	15/32	6 5/16	2.45	4.9	8.62	10.63
3/8 - 1/2	15 5/32	2 9/16	19/32	10 1/32	29 29/32	23 7/16	5/8	6 1/2	4.17	8.35	14.97	12.81
1/2 - 5/8	15 5/32	2 9/16	19/32	10 1/4	33 1/16	27 5/32	23/32	5 29/32	5.9	11.8	20.86	15.54

Scan for additional product details

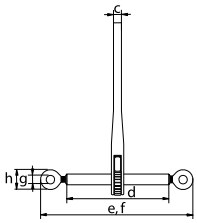
Green Pin® Ratchet Loadbinder

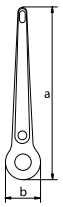
Ratchet type loadbinder without hooks

- **Material:** drop forged/cast steel
- **Safety factor:** MBL equals 3.5 x Lashing Capacity
- **Finish:** painted red or green
- **Certification:** 2.1 2.2
- **Article code:** scan QR code to see article codes



P-7150





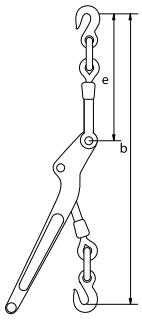
chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	inch	metric t	metric t	metric t	lbs
5/16 - 3/8	15 5/32	2 9/16	19/32	10 1/32	21 1/32	14 23/32	23/32	1 31/32	6 5/16	2.45	4.9	8.62	7.21
3/8 - 1/2	15 5/32	2 9/16	19/32	10 1/32	21 3/8	14 29/32	25/32	2 5/32	6 15/32	4.17	8.35	14.97	7.61
1/2 - 5/8	15 5/32	2 9/16	19/32	10 1/4	22 7/32	16 7/32	1 1/32	2 19/32	5 31/32	5.9	11.8	20.86	8.47

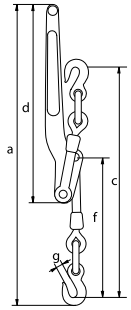
Green Pin® Lever Loadbinder HK

Lever type loadbinder with hooks

- **Material:** drop forged/cast steel
- **Safety factor:** MBL equals 3.5 x Lashing Capacity
- **Finish:** painted green
- **Certification:** 2.1 2.2
- **Article code:** scan QR code to see article codes

P-7110





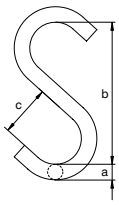
chain size	length	length open position	length closed position	length handle	length	length	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	inch	metric t	metric t	metric t	lbs
5/16 - 3/8	24 1/32	23 5/16	19 7/32	16 1/16	11 5/16	11 5/16	15/32	4 3/32	2.45	4.9	8.62	8.05
3/8 - 1/2	30 1/4	26 25/32	21 21/32	18 1/32	12 25/32	12 25/32	5/8	5 1/8	4.17	8.35	14.97	11.2

C

S-Hook

- **Material:** high tensile steel
- **Safety factor:** MBL equals 4 x LC
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Note:** not designed for lifting

S



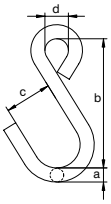
lashing capacity	diameter	length	width	weight each
metric t	a inch	b inch	c inch	lbs
0.2	13/32	3 5/32	1 3/16	0.24
0.3	1/2	3 15/16	1 9/16	0.53
0.5	5/8	5 1/8	1 31/32	1.04
0.75	23/32	6 5/16	2 3/8	1.76
1	25/32	7 3/32	2 9/16	2.25
1.2	7/8	7 7/8	2 3/4	3.09
1.5	15/16	8 21/32	3 5/32	4.3
2	1 1/4	10 1/4	3 17/32	7.72
3	1 13/32	12 19/32	3 15/16	11.38
4	1 9/16	14 3/16	4 17/32	16.49
5	1 25/32	15 3/4	5 1/8	23.8
6	2	17 23/32	5 29/32	35.7

C

S Eye Hook

- **Material:** high tensile steel
- **Safety factor:** MBL equals 4 x LC
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Note:** not designed for lifting

SO

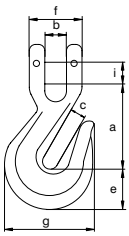


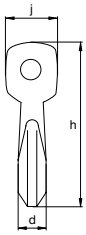
lashing capacity	diameter	length	width	width inside	weight each
metric t	a inch	b inch	c inch	d inch	lbs
0.2	13/32	3 5/32	1 3/16	5/8	0.24
0.3	1/2	3 15/16	1 9/16	13/16	0.55
0.5	5/8	5 1/8	1 31/32	31/32	1.06
0.75	23/32	6 5/16	2 3/8	1 11/32	1.68
1	25/32	7 3/32	2 9/16	1 23/32	2.36
1.2	7/8	7 7/8	2 3/4	1 9/16	3.09
1.5	15/16	8 21/32	3 5/32	1 9/16	3.95
2	1 1/4	10 1/4	3 17/32	1 31/32	8.38
3	1 13/32	12 19/32	3 15/16	2 1/16	11.79

C

Clevis lashing hook

CAC





- **Material:** alloy steel, grade 80, quenched and tempered
- **Safety factor:** MBL equals 2 x LC
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Note:** not designed for lifting

for chain diameter	lashing capacity	length	width	width	thickness	width	width outside	width outside	length outside	diameter pin	width outside	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
5/16	4	2 9/16	13/32	13/32	5/8	29/32	1 1/2	2 7/32	4 7/32	11/32	3/4	0.75
3/8	6.3	3 7/32	15/32	1/2	31/32	1 7/32	1 13/16	2 15/16	5 11/32	15/32	1 1/16	1.87
1/2	10	4 7/16	5/8	5/8	1 3/16	1 11/16	2 13/32	4 1/32	7 9/32	5/8	1 13/32	4.37
5/8	16	5 1/8	25/32	3/4	1 1/2	1 15/16	2 23/32	4 21/32	8 15/32	25/32	1 9/16	6.5
3/4	25	5 31/32	15/16	15/16	1 9/16	2 9/32	3 15/32	5 19/32	10	7/8	1 23/32	11.29

LIFTING CLAMPS

Applications

Lifting Clamps are used for lifting and transportation of all kinds of steel plates and beams.

Range

Green Pin® offers a wide range of lifting clamps for horizontal and/or vertical lifting of steel plates and beams ranging from WLL 0.75 t up to 25 t. They can handle steel plates with a thickness up to 5 $^{29}/_{32}$ inch. Upon request other types of clamps can be manufactured.

Design

Four different designs have been developed:
- P-6615, for lifting and vertical transportation of steel plates;
- P-6635, for horizontal transportation of steel plates;
- P-6625, a universal type for transportation in all directions;
- P-6685, for transportation of steel beams.

All of these types are also available as BigMouth® versions, which have a larger opening.

All types of lifting clamps are generally marked with:

• Working Load Limit	- e.g. 3000 kg
• manufacturer's identification symbol	- Green Pin®
• type	- 3 U
• jaw opening in mm	- e.g. 35 mm (1 $^{1}/_{8}$ inch)
• serial number	- e.g. E 12031976B64
• CE conformity code	- CE

Finish

The lifting clamps are made of carbon and alloy steel and are painted.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

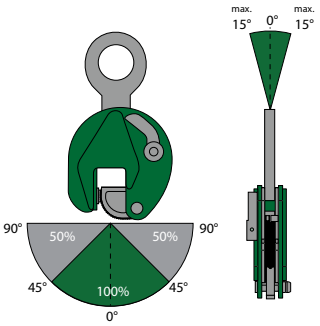
Lifting clamps should be inspected before use to ensure that:
- all markings are legible;
- a clamp with the correct WLL has been selected;
- always make sure that the clamp is supporting the load correctly;
- the WLL should be applied in-line;
- overloads are not permitted;
- the locking lever or any other locking system cannot vibrate out of position;
- lifting clamps are free from nicks, gouges and cracks;
- clamps may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a clamp by machining, welding, heating or bending as this may affect the WLL.

For more detailed instructions for use, we refer to the instructions in the FAQ section on our website **www.greenpin.com/FAQ**.

Lifting clamps must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the clamps are used in severe operating conditions.

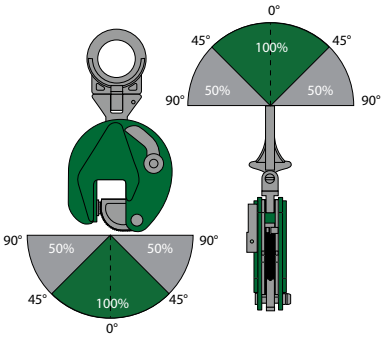
Lifting clamps P-6615 and P-6616

Full load may be applied up to a load direction angle of maximum 45°. Load reduction should be applied as per load direction angle and corresponding remaining percentage of the Working Load Limit. Do not side load the lifting eye.



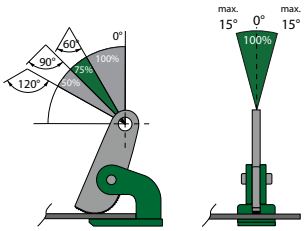
Lifting clamps P-6625 and P-6626

Full load may be applied up to a load direction angle of maximum 45°. Load reduction should be applied as per load direction angle and corresponding remaining percentage of the Working Load Limit. Do not side load the lifting eye.



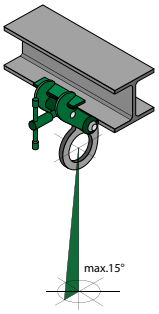
Lifting clamps P-6635 and P-6636, 100 % WLL

Full load may be applied up to a load direction angle of maximum 30°. Do not use larger angles.



Lifting clamps P-6685 and P-6686, 100 % WLL

Full load may be applied up to a load direction angle of maximum 15°. Do not use larger angles.

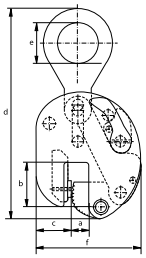


Scan for additional product details

Green Pin® Lifting Clamp V-type

Plate clamp for lifting and vertical transportation

P-6615



- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

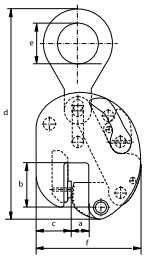
type	working load limit	width opening	length opening	width	length	diameter inside eye	width	thickness	thickness	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.75 V	0.75	0 - 1/2	1 27/32	1 15/32	7 15/16	1 3/16	3 15/16	1 15/32	13/32	3.75
1 V	1	0 - 31/32	2 7/32	1 15/32	10 11/32	1 25/32	5 9/16	1 27/32	19/32	7.72
2 V	2	0 - 1 3/8	3 1/16	2 7/32	13 7/32	2 17/32	7 7/32	2 7/32	5/8	15.43
3 V	3	0 - 1 3/8	3 1/16	2 7/32	13 7/32	2 17/32	7 7/32	2 7/32	5/8	15.43
4.5 V	4.5	0 - 1 25/32	3 11/32	2 3/8	16 23/32	2 3/4	8 31/32	3 1/16	25/32	35.3
6 V	6	0 - 1 31/32	4 1/2	3 7/32	19 9/32	2 15/16	10 3/16	3 1/16	25/32	46.3
7.5 V	7.5	0 - 2 5/32	4 3/8	2 3/4	20 9/16	2 15/16	10 1/2	3 3/8	25/32	57
9 V	9	0 - 2 5/32	4 3/8	2 3/4	20 9/16	2 15/16	10 1/2	3 3/8	25/32	60
12 V	12	0 - 2 1/16	5 13/16	3 15/16	24 9/32	3 11/32	11 5/8	3 11/16	25/32	82
15 V	15	0 - 3	8 7/32	5 11/32	31 7/8	3 3/8	14 11/16	4 3/16	31/32	154
20 V	20	0 - 3 5/32	9 27/32	6 1/32	36 23/32	3 15/16	22 5/32	5 1/2	1 3/16	328

CAD INFO

Green Pin BigMouth® Lifting Clamp V-type

Plate clamp with enlarged opening for lifting and vertical transportation

P-6616



- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

type	working load limit	width opening	length opening	width	length	diameter inside eye	width	thickness	thickness	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
6 VE	6	1 9/16 - 3 17/32	4 1/2	2 3/4	19 1/8	2 15/16	10 13/16	3 1/16	25/32	46.3
7.5 VE	7.5	1 31/32 - 3 15/16	4 3/8	2 3/4	20 5/8	2 15/16	12 9/32	3 3/8	25/32	58
9 VE	9	1 31/32 - 3 15/16	4 3/8	2 3/4	20 9/16	2 15/16	12 9/32	3 3/8	25/32	61
12 VE	12	1 31/32 - 3 15/16	5 31/32	3 15/16	24 7/32	3 11/32	13 17/32	3 11/16	25/32	90
15 VE	15	3 5/32 - 5 29/32	8 13/16	5 11/32	31 1/2	3 3/8	17 23/32	4 3/16	31/32	168
20 VE	20	3 5/32 - 5 29/32	9 13/16	6 1/32	36 3/8	3 15/16	25 3/16	5 1/2	1 3/16	353

CAD INFO

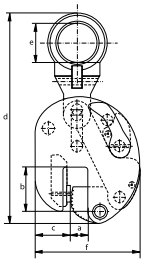
Scan for additional product details

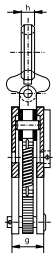
Green Pin® Lifting Clamp U-type

Universal plate clamp for lifting and transportation in all directions

- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 MTC[3] CE IIA
- **Article code:** scan QR code to see article codes

P-6625





type	working load limit	width opening	length opening	width	length	diameter inside eye	width	thickness	thickness	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.75 U	0.75	0 - 1/2	1 27/32	1 15/32	8	1 3/16	3 15/16	1 15/32	13/32	3.97
2 U	2	0 - 1 3/8	3 1/16	2 7/32	14 21/32	2 3/4	7 7/32	2 7/32	5/8	17.64
3 U	3	0 - 1 3/8	3 1/16	2 7/32	14 21/32	2 3/4	7 7/32	2 7/32	5/8	17.64
6 U	6	0 - 1 31/32	4 1/2	3 7/32	20 3/4	3 1/16	10 3/16	3 1/16	1 1/4	53
7.5 U	7.5	0 - 2 5/32	4 3/8	2 3/4	22 1/16	3 1/16	10 1/2	3 3/8	1 1/4	62
9 U	9	0 - 2 5/32	4 3/8	2 3/4	22 1/16	3 1/16	10 1/2	3 3/8	1 1/4	64
12 U	12	0 - 2 1/16	5 13/16	3 15/16	25 1/2	3 11/32	11 5/8	3 11/16	1 7/8	90

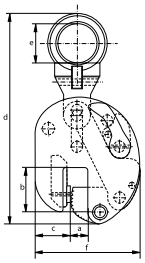
CAD INFO

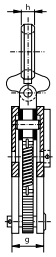
Green Pin BigMouth® Lifting Clamp U-type

Universal plate clamp for transportation in all directions and with enlarged opening

- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 MTC[3] CE IIA
- **Article code:** scan QR code to see article codes

P-6626





type	working load limit	width opening	length opening	width	length	diameter inside eye	width	thickness	thickness	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
6 UE	6	1 9/16 - 3 17/32	4 1/2	2 3/4	20 19/32	3 1/16	10 13/16	3 1/16	1 1/4	53
7.5 UE	7.5	1 31/32 - 3 15/16	4 3/8	2 3/4	22 1/16	3 1/16	12 9/32	3 3/8	1 1/4	66
9 UE	9	1 31/32 - 3 15/16	4 3/8	2 3/4	22 1/16	3 1/16	12 9/32	3 3/8	1 1/4	68
12 UE	12	1 31/32 - 3 15/16	5 31/32	3 15/16	25 11/32	3 11/32	13 17/32	3 11/16	1 7/8	99

CAD INFO

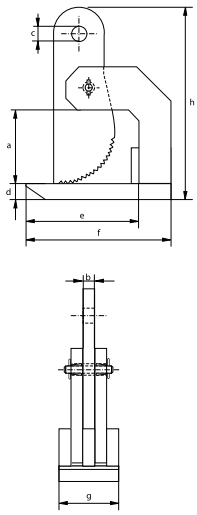
Scan for additional product details

Green Pin® Lifting Clamp H-Type

Plate clamp for horizontal transportation

- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

P-6635



type	working load limit per set	width opening	thickness	diameter eye	thickness	length	length	width	length	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
2 H	2	0 - 2 3/8	5/8	1 3/16	19/32	4 21/32	7 3/32	3 17/32	11 5/16	15.43
3 H	3	0 - 2 3/8	5/8	1 3/16	25/32	4 21/32	7 3/32	3 17/32	11 15/32	17.64
4 H	4	0 - 2 3/8	25/32	1 3/16	31/32	5 23/32	8 21/32	4 1/8	11 31/32	28.7
6 H	6	0 - 2 3/8	25/32	1 3/16	31/32	5 23/32	8 21/32	4 11/32	12 3/32	30.9
8 H	8	0 - 2 3/8	1 3/16	1 3/16	1 3/8	5 5/16	8 27/32	4 23/32	13 7/32	41.9
10 H	10	0 - 2 3/8	1 3/16	1 3/16	1 3/8	5 5/16	8 27/32	4 23/32	13 7/32	41.9
15 H	15	0 - 2 3/8	1 3/8	1 11/16	1 3/8	5 25/32	10 5/16	6 5/16	13 17/32	66
25 H	25	0 - 2 3/8	1 3/8	1 11/16	1 9/16	5 25/32	10 5/16	6 7/8	13 3/4	73

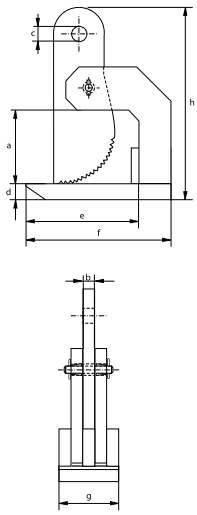
CAD INFO

Green Pin BigMouth® Lifting Clamp H-type

Plate clamp with an enlarged opening for horizontal transportation

- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

P-6636



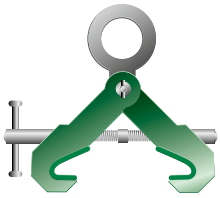
type	working load limit per set	width opening	thickness	diameter eye	thickness	length	length	width	length	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
3 HE	3	0 - 3 15/16	19/32	1 3/16	25/32	4 23/32	7 3/32	3 17/32	15 1/4	22
4 HE	4	0 - 3 15/16	25/32	1 3/16	31/32	5 23/32	8 21/32	4 1/8	16 5/16	33.1
6 HE	6	0 - 3 15/16	25/32	1 3/16	31/32	5 23/32	8 21/32	4 23/32	16 5/16	36.4
8 HE	8	0 - 3 15/16	1 3/16	1 3/16	1 3/8	5 5/16	8 27/32	4 23/32	16 27/32	46.3
10 HE	10	0 - 3 15/16	1 3/16	1 3/16	1 3/8	5 5/16	8 27/32	4 23/32	16 27/32	48.5
15 HE	15	0 - 5 29/32	1 3/8	1 25/32	1 3/8	9 7/16	13 25/32	5 1/2	26 3/16	117

CAD INFO

Scan for additional product details

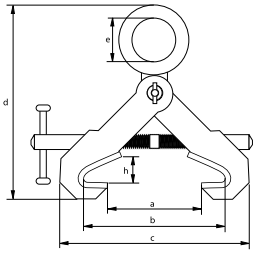
Green Pin® Beam Lifting Clamp H-type

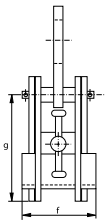
Clamp for horizontal lifting and transportation of steel beams



- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 MTC[3] CE IIA
- **Article code:** scan QR code to see article codes

P-6685





type	working load limit	width jaw opening	width jaw opening	length	height	diameter eye inside	width	thickness	width	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
2 B	2	0 - 5 1/8	2 15/16 - 7 15/32	14 1/16	13 19/32	2 7/8	4 23/32	4 7/16 - 7 9/16	1 3/16	11.02
3 B	3	0 - 5 1/8	2 15/16 - 7 15/32	14 1/16	13 19/32	2 7/8	4 23/32	4 7/16 - 7 9/16	1 3/16	11.02
4 B	4	0 - 8 21/32	5 29/32 - 11 13/16	17 23/32	16 5/8	3 5/32	7 3/32	7 9/32 - 9 7/16	1 9/16	33.1
5 B	5	0 - 8 21/32	5 29/32 - 11 13/16	17 23/32	16 5/8	3 5/32	7 3/32	7 9/32 - 9 7/16	1 9/16	33.1
10 B	10	0 - 7 15/32	13 25/32 - 17 23/32	27 3/8	25 23/32	3 15/32	7 7/8	15 3/4 - 17 19/32	3 3/4	110

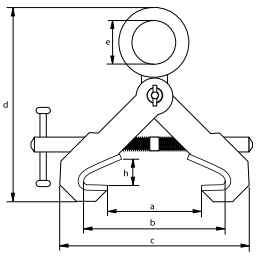
CAD INFO

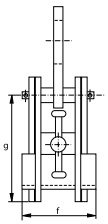
Green Pin BigMouth® Beam Lifting Clamp H-type

Clamp with enlarged opening for horizontal lifting and transportation of steel beams

- **Material:** carbon and alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to EN 13155, ASME B30.20-2010 and AS 4991
- **Finish:** painted
- **Temperature range:** -40 °F up to +212 °F
- **Certification:** 2.1 2.2 MTC[3] CE IIA
- **Article code:** scan QR code to see article codes

P-6686





type	working load limit	width jaw opening	width jaw opening	length	height	diameter eye inside	width	thickness	width	weight each
	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
2 BE	2	0 - 13 25/32	2 15/16 - 16 17/32	21 1/4	16 27/32	2 7/8	4 23/32	4 1/2 - 10 13/16	1 3/16	15.43
3 BE	3	0 - 13 25/32	2 15/16 - 16 17/32	21 1/4	16 27/32	2 7/8	4 23/32	4 1/2 - 10 13/16	1 3/16	15.43
4 BE	4	0 - 18 1/2	5 29/32 - 22 1/16	27 7/8	21 15/32	3 5/32	7 3/32	6 13/16 - 14 1/4	1 9/16	39.7
5 BE	5	0 - 18 1/2	5 29/32 - 22 1/16	27 7/8	21 15/32	3 5/32	7 3/32	6 13/16 - 14 1/4	1 9/16	43

CAD INFO

BLOCKS

Applications

Blocks are used in lifting systems, to change load direction or to drag a load. Blocks and the wire ropes they contain make a connection between a load and a lifting device.

Range

Green Pin® offers a wide range of blocks. Blocks are available for head loads ranging from 2 t up to 30 t. Other types of blocks can be offered upon special request.

Design

There are different types of blocks with specific designs to suit particular purposes. All types are fitted with conical roller bearings. These can be used for applications with different frequency of use and line speeds. Snatch blocks can be opened up to fit the wire rope easily. There is no need to thread the wire rope through the block.

All types are generally marked as follows:

- Working Load Limit - e.g. 8 t
- manufacturer's symbol - e.g. GP
- wire rope diameter in mm and inches - e.g. 20 - 22 mm and $^{3}/_{4}$ - $^{7}/_{8}$ inch
- serial number - e.g. 1234567
- CE conformity code - CE

Finish

Green Pin® Blocks are painted.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

Blocks should be inspected before use to ensure that:

- all markings are legible;
- a block with the correct WLL has been selected;
- the WLL applies to static loads only, the possible occurrence of shock loading must be taken into account when selecting a block;
- the block may never be side loaded but may only be used for in-line use;
- always make sure that the hook, eye or shackle of the block is supporting the load correctly;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the sheaves are functional and rotate easily;
- blocks are free from nicks, gouges and cracks;
- blocks may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a block by machining, welding, heating or bending as this may affect the WLL.

Blocks must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the blocks are used in severe operating conditions.

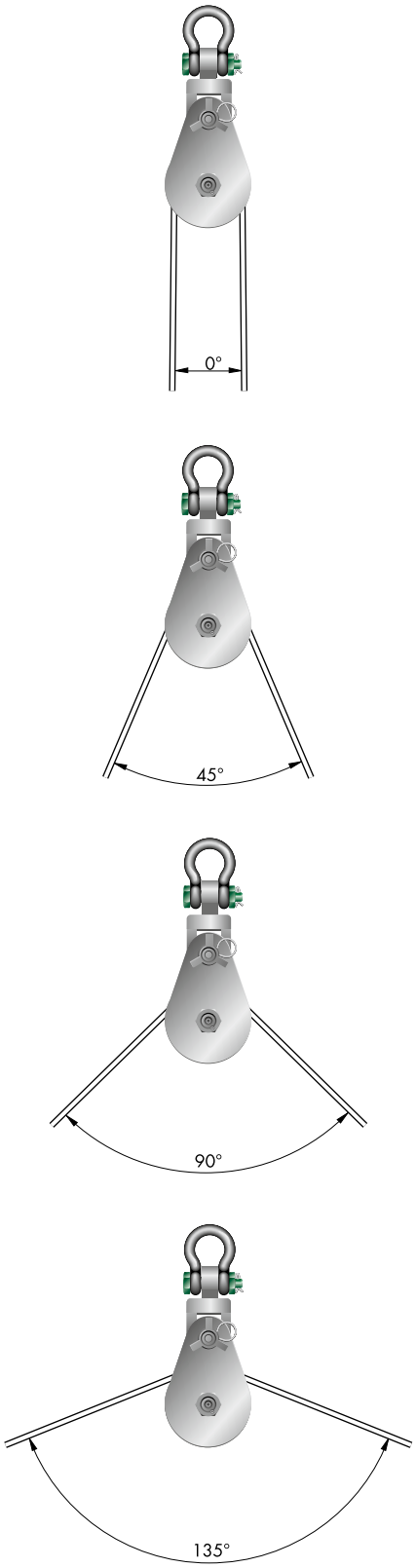
Loads on blocks

The WLLs of our blocks are the maximum loads to be applied to the blocks and their connecting fittings. The load on a sheave or block varies with the angle between the lead and load line. See figure 1. When the two lines are parallel, 1 t on the lead line results in a load of 2 t on the fitting. As the working angle between the lines increases, the load on the fitting is reduced by the angle factor as per table 1. All loads shown ignore frictional losses in the lifting system.

Table 1

working angle	angle factor
0°	2
10°	1.99
20°	1.97
30°	1.93
40°	1.87
45°	1.84
50°	1.81
60°	1.73
70°	1.64
80°	1.53
90°	1.41
100°	1.29
110°	1.15
120°	1
130°	0.84
135°	0.76
140°	0.68
150°	0.52
160°	0.35
170°	0.17
180°	0

Figure 1

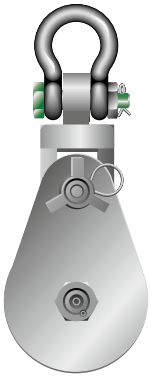


Green Pin® Snatch Block S

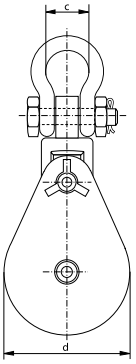
Snatch block type 601S with Green Pin® Shackle attached

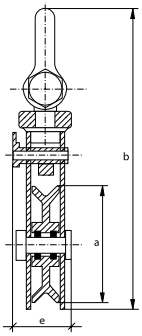
Scan for additional product details

- **Material:** carbon steel, fitted with conical roller bearings
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted
- **Certification:** 2.1 2.2 MTC [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** Working Load Limit is on the headfitting



P-6951





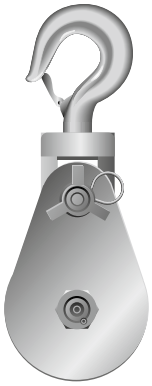
working load limit	diameter wire rope	diameter outside sheave	length	width	width outside	thickness	weight each
metric t	inch	a inch	b inch	c inch	d inch	e inch	lbs
2	9/32 - 3/8	3	11 15/32	1 11/16	3 7/32	3 7/16	8.53
4	3/8 - 1/2	4 1/2	14 9/32	2 9/32	4 23/32	3 1/2	14.02
4	1/2 - 9/16	6	16 13/32	2 9/32	6 5/16	3 1/2	18.5
8	3/4 - 7/8	6	18 13/16	2 11/16	6 5/16	4 11/16	31.1
8	9/16 - 5/8	6	18 13/16	2 11/16	6 5/16	4 11/16	31.5
12	3/4 - 7/8	6	21 11/16	3 9/32	6 5/16	4 11/16	44.1
12	9/16 - 5/8	6	21 11/16	3 9/32	6 5/16	4 11/16	44.1
15	1	6	23 1/32	3 5/8	6 5/16	5 7/16	53
4	3/8 - 1/2	8	18 13/16	2 9/32	8 9/32	4 11/16	24.3
8	3/4 - 7/8	8	20 3/4	2 11/16	8 9/32	4 11/16	39.7
12	3/4 - 7/8	8	22 27/32	3 9/32	8 9/32	4 29/32	62
12	9/16 - 5/8	8	22 27/32	3 9/32	8 9/32	4 29/32	60
15	1	8	25 7/16	3 5/8	8 9/32	5 19/32	66
8	3/4 - 7/8	10	22 7/8	2 11/16	10 1/4	4 3/32	57
8	9/16 - 5/8	10	22 7/8	2 11/16	10 1/4	4 3/32	57
12	3/4 - 7/8	10	26 23/32	3 9/32	10 1/4	4 29/32	77
15	1	10	27 3/4	3 5/8	10 1/4	5 3/4	93
8	3/4 - 7/8	12	25 7/16	2 11/16	12 7/32	4 3/16	68
12	3/4 - 7/8	12	29 7/16	3 9/32	12 7/32	5 3/4	77
15	1	12	30 11/32	3 5/8	12 7/32	5 19/32	73
8	3/4 - 7/8	14	27 7/32	2 11/16	14 3/16	4 11/16	68
12	3/4 - 7/8	14	30 7/16	3 9/32	14 3/16	5 23/32	77
15	1	14	31 13/32	3 5/8	14 3/8	6 23/32	139
22	1 1/8 - 1 1/4	14	37 13/32	4 31/32	14 3/8	7 3/32	207
8	3/4 - 7/8	16	29 3/4	2 11/16	16 11/32	4 11/16	77
12	3/4 - 7/8	16	32 3/8	3 9/32	16 11/32	6 11/16	148
15	1	16	33 3/8	3 5/8	16 11/32	6 11/16	86
22	1 1/8 - 1 1/4	16	39 21/32	4 31/32	16 11/32	7 3/32	306
30	1 1/4 - 1 1/2	16	42 3/8	5 7/16	16 11/32	8 9/32	273
8	3/4 - 7/8	18	32 5/32	2 11/16	18 5/16	4 11/16	93
12	3/4 - 7/8	18	34 17/32	3 9/32	18 5/16	6 11/16	165
15	1	18	35 11/32	3 5/8	18 5/16	6 11/16	98
22	1 1/8 - 1 1/4	18	41 5/8	4 31/32	18 5/16	7 3/32	340
30	1 1/8 - 1 1/4	18	43 11/32	5 7/16	18 5/16	8 9/32	481
32	1 1/4 - 1 3/8	16	53 19/32	5 7/16	16 3/32	7 19/32	309
32	1 1/8 - 1 1/2	18	56 27/32	5 7/16	18 1/2	7 19/32	355
32	1 1/8 - 1 1/2	20	59 1/2	5 7/16	20 1/8	7 19/32	375
36	1 1/8 - 1 1/2	20	62	6 5/16	20 1/8	8	503
32	1 1/8 - 1 1/4	23	65 23/32	5 7/16	24 1/32	7 19/32	375
54	1 3/8 - 2	23	73 9/32	7 3/32	24 1/32	10 19/32	767
75	1 3/4 - 2	23	82 7/8	7 15/32	24 1/32	10 15/32	862
75	1 3/4 - 2 1/4	30	96 5/32	7 15/32	30 5/16	10 15/32	1402
100	2 1/2 - 2 5/8	32	105 9/16	9 3/8	32 9/32	10 1/4	1847
125	2 3/4 - 3	35	114 3/32	10 13/16	36 3/16	10 1/4	2553

CAD

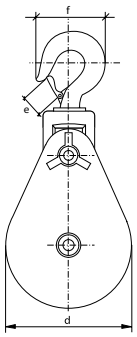
Green Pin® Snatch Block HK

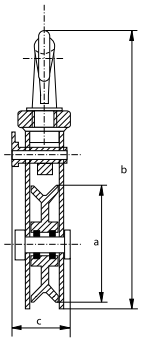
Snatch block type 601H with hook attached

Scan for additional product details



P-6952





- **Material:** carbon steel, fitted with conical roller bearings
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted
- **Certification:** 2.1 2.2 MTC [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** Working Load Limit is on the headfitting

working load limit	diameter wire rope	diameter outside sheave	length	thickness	width outside	opening hook	width outside	weight each
metric t	inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs
2	9/32 - 3/8	3	11 13/32	3 7/16	3 7/32	1 3/16	4 1/4	8.11
4	3/8 - 1/2	4 1/2	14 3/32	3 1/2	4 23/32	1 11/16	5 3/16	13.23
4	1/2 - 9/16	6	16 7/32	3 1/2	6 5/16	1 11/16	5 3/16	18.74
8	3/4 - 7/8	6	19 3/4	4 11/16	6 5/16	1 25/32	6 1/2	26
12	3/4 - 7/8	6	24 1/4	4 11/16	6 5/16	2 25/32	8 29/32	45.2
15	1	6	24 21/32	5 7/16	6 5/16	2 25/32	8 29/32	52
4	3/8 - 15/32	8	18 5/8	3 19/32	8 9/32	1 11/16	5 3/16	17.64
8	3/4 - 7/8	8	21 11/16	4 11/16	8 9/32	1 25/32	6 1/2	45
12	3/4 - 7/8	8	25 1/4	5 3/32	8 9/32	2 25/32	8 29/32	66
15	1	8	26 3/32	5 19/32	8 9/32	2 25/32	8 29/32	65
8	3/4 - 7/8	10	23 27/32	4 1/16	10 1/4	1 25/32	6 1/2	56
12	3/4 - 7/8	10	28 21/32	4 29/32	10 1/4	2 25/32	8 29/32	78
15	1	10	29 11/32	6 17/32	10 1/4	2 25/32	8 29/32	90
8	3/4 - 7/8	12	26 13/32	4 11/16	12 7/32	1 25/32	6 1/2	71
12	3/4 - 7/8	12	31 7/8	6 17/32	12 7/32	2 25/32	8 29/32	110
15	1	12	31 7/8	6 17/32	12 7/32	2 25/32	8 29/32	115
8	3/4 - 7/8	14	28 3/16	4 11/16	14 3/16	1 25/32	6 1/2	84
12	3/4 - 7/8	14	32 7/8	6 17/32	14 3/16	2 25/32	8 29/32	130
15	1	14	32 15/16	6 17/32	14 3/16	2 25/32	8 29/32	129
8	3/4 - 7/8	16	30 23/32	4 11/16	16 11/32	1 25/32	6 1/2	106
12	3/4 - 7/8	16	34 31/32	6 17/32	16 11/32	2 25/32	8 29/32	79
15	1	16	35 1/32	6 17/32	16 11/32	2 25/32	8 29/32	151
8	3/4 - 7/8	18	33 1/8	4 11/16	18 5/16	1 25/32	6 1/2	128
12	3/4 - 7/8	18	37 3/32	6 17/32	18 5/16	2 25/32	8 29/32	93
15	1	18	37 3/32	6 17/32	18 5/16	2 25/32	8 29/32	181

CAD

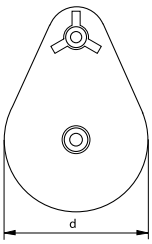
Green Pin® Snatch Block

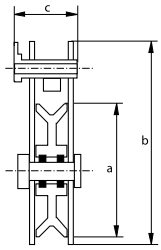
Snatch block type 601T

Scan for additional product details

- **Material:** carbon steel, fitted with conical roller bearings
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted
- **Certification:** 2.1 2.2 MTC [b] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** Working Load Limit is on the headfitting

P-6953





working load limit	diameter wire rope	diameter outside sheave	length	thickness	width outside	weight each
metric t	inch	a inch	b inch	c inch	d inch	lbs
4	3/8 - 1/2	4 1/2	7 7/16	3 5/32	4 23/32	8.82
8	3/4 - 7/8	6	10 9/16	4 1/8	6 5/16	20.9
8	3/4 - 7/8	8	12 11/16	4 1/8	8 9/32	26.5
8	3/4 - 7/8	10	14 27/32	4 1/8	10 1/4	39.7

CAD

CE
2018
VAN BEEST

GENERAL HARDWARE

Applications

General hardware items, such as carabine hooks and quick links, are suitable for many different applications in various market segments such as agriculture, industry, transportation, etc.

Range

Royal Van Beest offers a wide range of general hardware products to complement the Green Pin® assortment, such as:

- RFID tags;
- Split pins;
- Spring pins;
- Linch pins;
- Quick links;
- Carabine hooks.

Design

General hardware items are designed for multiple purpose usage.

Finish

Most general hardware items are electro-galvanized. Specific details of the finish of general hardware items can be found on each product page.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

Items should be inspected before use to ensure that they are free from nicks, gouges and cracks. Also:

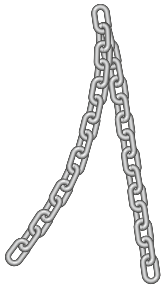
- the item should not be used for lifting – general hardware items are not suitable for lifting applications;
- never modify, repair or reshape an item by machining, welding, heating or bending, as this may affect its performance.

The products must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the products are used in severe operating conditions.

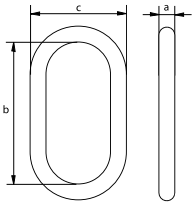
C

Short link chain

Generally to DIN 766 and DIN 5685-3, commercial quality



E-7661
G-7662



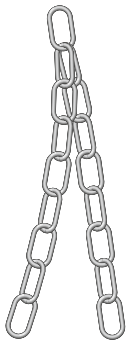
- **Material:** mild steel, grade 30
- **Standard:** generally to DIN 766 and DIN 5685-3
- **Finish:** electro-galvanized (E) or hot dipped galvanized (G)
- **Certification:** 2.1
- **Note:** not to be used for lifting applications!

diameter	length inside	width outside	weight per meter
a inch	b inch	c inch	lbs
1/8	5/8	7/16	0.37
5/32	5/8	9/16	0.71
3/16	23/32	21/32	1.1
1/4	23/32	25/32	1.65
9/32	7/8	29/32	2.2
5/16	15/16	1 1/32	2.98
11/32	1 1/16	1 3/16	3.97
13/32	1 3/32	1 11/32	4.96
7/16	1 7/32	1 13/32	5.95
1/2	1 13/32	1 23/32	8.38
5/8	1 25/32	2 1/8	12.79
23/32	1 31/32	2 3/8	16.09

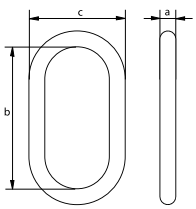
C

Long link chain

Generally to DIN 763 and DIN 5685-1, commercial quality



E-7631
G-7632

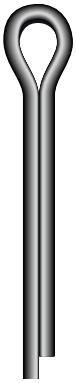


- **Material:** mild steel, grade 30
- **Standard:** generally to DIN 763 and DIN 5685-1
- **Finish:** electro-galvanized (E) or hot dipped galvanized (G)
- **Certification:** 2.1
- **Note:** not to be used for lifting applications!

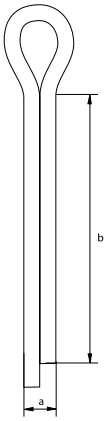
diameter	length inside	width outside	weight per meter
a inch	b inch	c inch	lbs
1/8	1 1/32	1/2	0.31
5/32	1 1/4	5/8	0.6
3/16	1 13/32	25/32	0.95
1/4	1 21/32	15/16	1.39
9/32	1 7/8	1 3/32	1.9
5/16	2 1/8	1 1/4	2.43
13/32	2 19/32	1 9/16	3.86
1/2	3 7/32	1 31/32	6.5
5/8	3 15/16	2 3/8	9.81

C

Split pins



E-7950

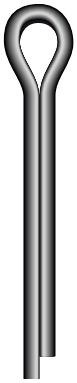


- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

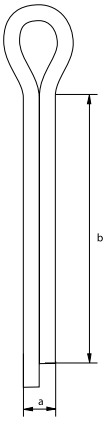
diameter	length	weight per 100 pcs
a inch	b inch	lbs
3/32	25/32	0.18
5/32	1 1/4	0.66
3/16	1 13/32	1.32
1/4	1 25/32	2.65
5/16	2 15/32	6.17
5/16	3 5/32	9.7
5/16	3 15/16	9.7
5/16	4 29/32	12.13
5/16	5 29/32	14.55
13/32	2 25/32	11.02
13/32	3 17/32	13.23
13/32	3 15/16	14.55
13/32	4 23/32	9.7
15/32	5 1/2	15.43
15/32	6 5/16	15.43
1/2	4 11/32	26.7
5/8	6 5/16	35.3
5/8	7 7/8	44.1
25/32	9 1/16	66
25/32	11 1/32	38.8

continued on next page >

Split pins (continued)



E-7950



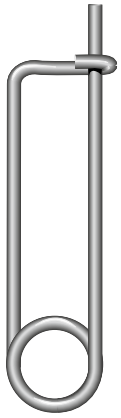
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

split pins	for shackle									
	G-4163 G-4143	G-4153 G-4133	P-6036 P-6016 ≤150	P-6038 P-6018	P-6033 P-6013 ≤150	G-5263 G-5243	G-5163 G-5143	P-6031 P-6011 ≤150	G-4263 G-4243	G-4553
a x b inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/32 x 25/32	0.5									
	0.75									
	1									
	1.5									
5/32 x 1 1/4	2	2				3.3	2			
	3.25	3.25				5	3.25			
3/16 x 1 13/32	4.75	4.75			7	7	4.75		4.75	4.6
	6.5	6.5				9.5	6.5			
1/4 x 1 25/32	8.5	8.5			12.5	12.5	8.5		6.5	8.6
	9.5	9.5			18	15	9.5		8.5	
	12	12				18	12		9.5	
5/16 x 2 15/32	13.5	13.5				21	13.5		12	15.5
	17	17				30	17		16	
5/16 x 3 5/32					30					
					40					
13/32 x 2 25/32	25	25				40	25		25	
	35	35				55	35		30	
13/32 x 3 17/32	42.5	42.5				85	42.5		55	
	55	55					55			
13/32 x 3 15/16	85	85			55	120	85		75	
					75					
13/32 x 4 23/32					125					
15/32 x 5 1/2					150					
					200					
15/32 x 6 5/16					250					
					300					
1/2 x 4 11/32			120	120		150		120		
			150			175		150		
5/8 x 6 5/16			200					200		
			250					250		
			300					300		
5/8 x 7 7/8			400		400			400		
			500		500			500		
25/32 x 9 1/16			600		600			600		
			700					700		
			800					800		
25/32 x 11 1/32			900					900		
			1000					1000		

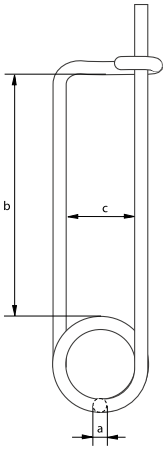
C

Safety Pin

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-7945



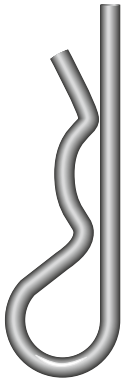
diameter	length inside	width inside	weight per 100 pcs
a inch	b inch	c inch	lbs
1/8	4 9/16	15/16	5.51
1/8	5 25/32	15/16	6.17

safety pin	for shackle
	P-5367
a x b inch	WLL metric t
1/8 x 4 9/16	12 - 55
1/8 x 5 25/32	85
	120
	150

C

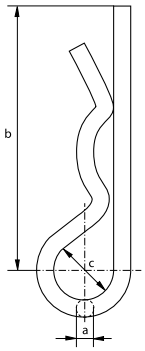
Spring pins, single type

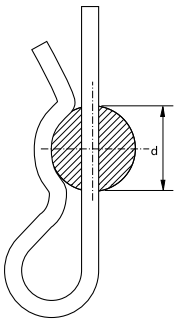
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



diameter	length	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
3/32	1 31/32	13/32	11/32 - 9/16	0.66
1/8	2 3/8	23/32	13/32 - 5/8	1.98
5/32	2 3/8	25/32	5/8 - 25/32	3.53
3/16	3 11/32	15/16	25/32 - 1 3/32	7.28
1/4	4 1/8	1 3/16	1 3/32 - 1 9/16	13.67
9/32	4 1/8	1 3/16	1 3/32 - 1 25/32	18.3
5/16	4 11/32	1 3/32	1 3/16 - 1 25/32	23.1

E-7930



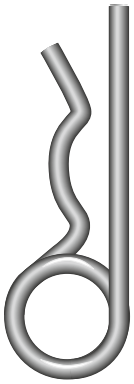


spring pin	for shackle						
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553
a x b inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/32 x 1 31/32	2	2		3.3	2		
1/8 x 2 3/8	3.25	3.25		5	3.25		
5/32 x 2 3/8	4.75	4.75	7	7	4.75	4.75	4.6
	6.5	6.5		9.5	6.5		
3/16 x 3 11/32	8.5	8.5	12.5	12.5	8.5	6.5	8.6
	9.5	9.5	18	15	9.5	8.5	
	12	12		18	12	9.5	
1/4 x 4 1/8	13.5	13.5		21	13.5	12	15.5
	17	17		30	17	16	
9/32 x 4 1/8	25	25	30	40	25	25	
			40				

C

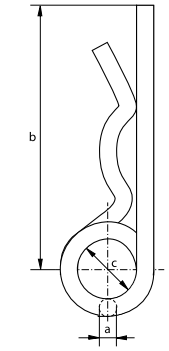
Spring pins, double type

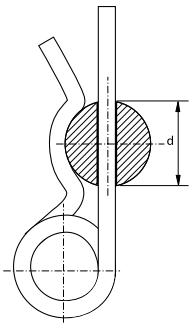
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-7931

diameter	length	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
3/32	1 1/2	13/32	5/16 - 9/16	0.88
1/8	2 7/16	5/8	9/16 - 25/32	3.09
5/32	3 1/16	29/32	21/32 - 15/16	6.61
3/16	3 5/8	1 1/32	23/32 - 1 3/16	11.68
1/4	4 23/32	1 3/16	15/16 - 1 13/32	21.2
9/32	5 1/8	1 3/16	15/16 - 1 9/16	29.8
9/32	5 29/32	1 3/16	1 25/32 - 2 7/32	29.8
5/16	5 1/8	1 3/16	15/16 - 1 25/32	39.2



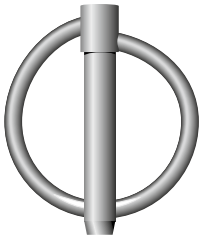


spring pin	for shackle									
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553	P-5361D/F	P-5363	P-5365
a x b inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/32 x 1 1/2	2	2		3.3	2					
1/8 x 2 7/16	3.25	3.25		5	3.25			6.5		6.5 ~ 12
5/32 x 3 1/16	4.75	4.75	7	7	4.75	4.75	4.6		6.5	17
	6.5	6.5		9.5	6.5					25
	8.5	8.5		12.5	8.5					35
3/16 x 3 5/8	9.5	9.5	12.5	15	9.5	6.5	8.6	9.5	9.5	42.5 ~ 85
	12	12	18	18	12	8.5			12	120 ~ 250
						9.5				
1/4 x 4 23/32	13.5	13.5		21	13.5	12	15.5	12	17	
	17	17		30	17	16		17		
								25		
9/32 x 5 29/32	35	35	55	55	35	30		42.5	35	
	42.5	42.5	75	85	42.5	55		55	42.5	
	55	55			55				55	
									85	
5/16 x 5 1/8	25	25	30	40	25	25		35	25	
			40							

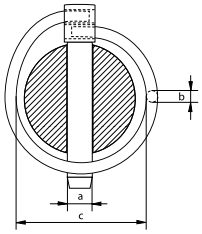
C

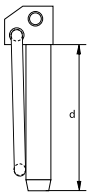
Linch pins

With round spring ring



E-7940





- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

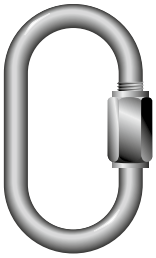
diameter pin	diameter spring ring	width inside spring ring	length pin	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
3/16	3/32	1 5/8	1 21/32	4.41
1/4	1/8	1 5/8	1 21/32	6.17
9/32	1/8	1 5/8	1 21/32	6.61
5/16	1/8	1 5/8	1 21/32	7.72
11/32	1/8	1 5/8	1 21/32	8.38
13/32	1/8	1 5/8	1 21/32	9.7
7/16	1/8	1 5/8	1 21/32	10.14

linch pin	for shackle						
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553
diameter inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/16	4.75	4.75	7	7	4.75	4.75	4.6
	6.5	6.5		9.5	6.5	6.5	8.6
	8.5	8.5		12.5	8.5	8.5	
1/4	9.5	9.5	12.5	15	9.5	9.5	
	12	12	18	18	12		
5/16	13.5	13.5	30	21	13.5	12	15.5
	17	17		30	17	16	

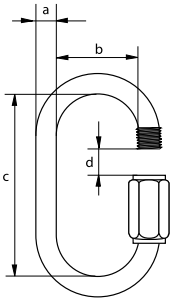
C

Quick links, standard type

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-7300

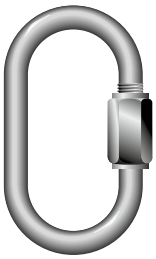


diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	kg	lbs
1/8	13/32	1 5/32	3/16	240	1.98
5/32	7/16	1 1/4	3/16	300	2.87
3/16	1/2	1 17/32	1/4	540	4.41
1/4	9/16	1 13/16	9/32	750	7.28
9/32	5/8	2	5/16	1125	11.68
5/16	21/32	2 5/16	13/32	1500	16.53
11/32	21/32	2 17/32	7/16	2000	22.7
13/32	25/32	2 3/4	15/32	2400	28.7
15/32	29/32	3 9/32	9/16	3600	55
9/16	1 1/32	3 13/16	21/32	5000	77
5/8	1 5/32	4 13/32	25/32	6000	110

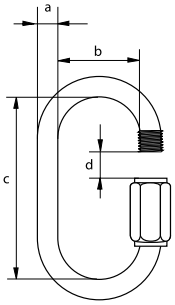
C

Quick links, with enlarged opening

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-7310

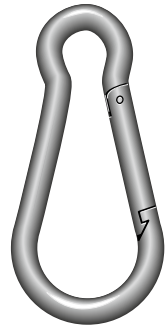


diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	kg	lbs
5/32	15/32	1 25/32	7/16	800	3.09
3/16	9/16	2 1/16	1/2	1250	5.51
1/4	5/8	2 9/32	9/16	1750	9.26
9/32	21/32	2 9/16	5/8	2500	14.77
5/16	3/4	2 7/8	21/32	3250	20.7
11/32	25/32	3 1/8	3/4	4000	28.9
13/32	7/8	3 15/32	25/32	5000	38.6
15/32	31/32	4 1/32	29/32	6250	62
9/16	1 3/32	4 1/2	1 1/32	10000	101
5/8	1 7/32	5 3/32	1 5/32	12500	134

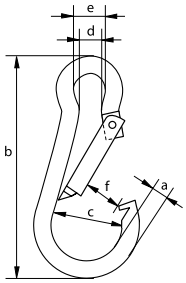
C

Carabine hooks, standard type

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-7200

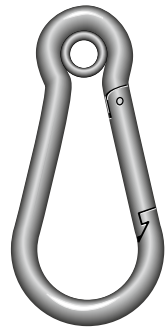


diameter	length	width	width inside	width inside	width opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	f inch	kg	lbs
5/32	1 9/16	9/16	3/16	9/32	1/4	-	1.32
3/16	1 31/32	5/8	9/32	5/16	1/4	100	1.76
1/4	2 3/8	23/32	9/32	11/32	9/32	120	5.29
9/32	2 3/4	7/8	11/32	13/32	5/16	180	5.73
5/16	3 5/32	15/16	7/16	15/32	11/32	300	9.7
11/32	3 17/32	1 1/32	7/16	15/32	13/32	330	14.11
13/32	3 15/16	1 3/16	15/32	19/32	7/16	460	26.7
7/16	4 23/32	1 13/32	9/16	23/32	19/32	600	27.6
15/32	5 1/2	1 9/16	5/8	25/32	3/4	680	54
1/2	6 5/16	1 23/32	25/32	7/8	15/16	800	55
9/16	7 3/32	1 7/8	25/32	7/8	1 3/32	860	77
19/32	7 7/8	2 3/8	25/32	7/8	1 3/8	1370	126

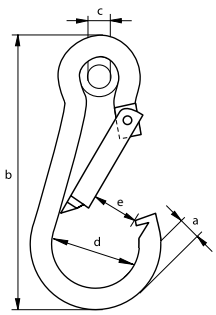
C

Carabine hooks, with pressed thimble

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



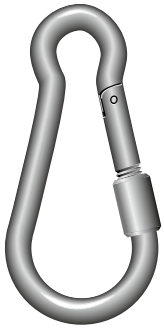
E-7210



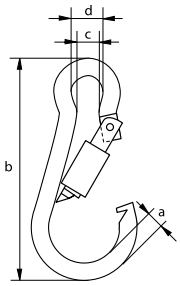
diameter	length	diameter inside thimble	width	width opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	kg	lbs
5/32	1 9/16	5/32	9/16	1/4	-	1.76
3/16	1 31/32	3/16	5/8	1/4	100	3.53
1/4	2 3/8	1/4	23/32	9/32	120	5.73
9/32	2 3/4	9/32	7/8	5/16	180	9.7
5/16	3 5/32	13/32	15/16	11/32	300	14.11
11/32	3 17/32	15/32	1 1/32	13/32	330	20.5
13/32	3 15/16	1/2	1 3/16	7/16	460	27.6
7/16	4 23/32	1/2	1 13/32	19/32	600	43
15/32	5 1/2	19/32	1 9/16	3/4	680	55
1/2	6 5/16	21/32	1 23/32	15/16	800	77
9/16	7 3/32	21/32	1 7/8	1 3/32	860	110

C

Carabine hooks, with screw nut



E-7220



- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

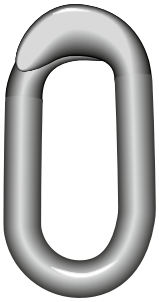
diameter	length	width inside	width inside	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	kg	lbs
5/32	1 9/16	5/32	9/32	-	3.75
3/16	1 31/32	3/16	9/32	100	4.19
1/4	2 3/8	1/4	5/16	120	5.95
9/32	2 3/4	9/32	13/32	180	9.92
5/16	3 5/32	13/32	15/32	300	14.33
11/32	3 17/32	15/32	15/32	330	22.7
13/32	3 15/16	1/2	19/32	460	29.5
7/16	4 23/32	1/2	5/8	600	41.9
15/32	5 1/2	19/32	3/4	680	58
1/2	6 5/16	21/32	1 3/32	800	82
9/16	7 3/32	21/32	1 3/32	860	115

C

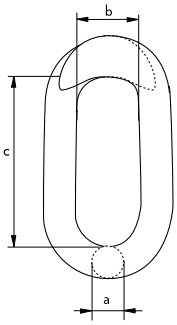
Chain repair links

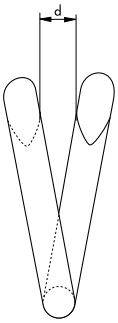
Commercial quality

- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-7910





diameter	width inside	length inside	opening	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
1/8	1/4	21/32	5/32	0.88
5/32	5/16	25/32	7/32	1.76
3/16	11/32	7/8	1/4	2.43
3/16	3/8	29/32	1/4	2.65
7/32	13/32	1 1/32	1/4	3.97
1/4	13/32	1 5/32	9/32	4.63
1/4	7/16	1 3/16	5/16	7.05
9/32	17/32	1 1/4	11/32	8.6
5/16	19/32	1 15/32	11/32	12.35
11/32	21/32	1 15/32	11/32	16.76
13/32	21/32	1 15/32	11/32	20.9
15/32	31/32	1 31/32	15/32	22

STAINLESS STEEL PRODUCTS

Applications

The use of stainless steel products is recommended for circumstances in which corrosion may cause problems. Where other measures against corrosion do not suffice, stainless steel can possibly provide a better solution. Examples of industries where stainless steel is often used include sailing, petrochemical, food and nuclear industry.

Range

Green Pin® offers a wide range of stainless steel items such as shackles, chain, chain fittings, thimbles, wire rope clips, eye bolts, rigging screws, etc. With the wide range of stainless steel items in the Green Pin® assortment, a complete sling from the top master link to the hooks can be assembled. Royal Van Beest offers a wide range of other stainless steel items to complement the Green Pin® assortment.

Design

Stainless steel items supplied by Green Pin® are all manufactured from stainless steel quality AISI 316, or AISI 316L, except for groups MSI and MTSI which are manufacturerd from Duplex 1.4462, and product groups R-7856, R-7850, R-7852 and R-7854 which are manufactured from AISI 304. The products CSOI, CSCI, CSEI, CROI, ALI, ALDINI and ELI are dye penetrant inspected. Most stainless steel items have an equivalent in a regular steel quality, we refer to the specific chapters for further details.

Most stainless steel components are generally marked with:

- manufacturer's symbol - GP
- chain diameter in mm and/or inch - e.g. 13 and/or $^{1}/_{2}$"
- traceability code - e.g. HA
- steel grade - 5
- item code - e.g. MJI
- origin - e.g. France

As prescribed by the Machinery Directive 2006/42/EC our hooks, master links and connecting links are supplied with a CE Declaration of Incorporation (CE IIB), stating the products are in compliance with the requirements of the machinery directive. These products do not have a CE marking, since CE markings are only to be provided for machines, whereas hooks, master links and connecting links are components of machines, and not machines themselves. Providing components with a CE marking is an incorrect interpretation of the Machinery Directive.

Machinery definition according to Machinery Directive 2006/42/EC – Article 2 – definitions (a) and Machinery Regulation 2023/1230/EU:

"An assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort."

"The maximum working load shall be prominently marked on the lifting machinery. The marking shall be legible, indelible and in an un-coded form. Where the maximum working load depends on the configuration of the lifting machinery, each operating position shall be provided with a load plate indicating, preferably in diagrammatic form or by means of tables, the working load permitted for each configuration."

This definition means that a sling is a Machine and that the hooks, master links and connecting links are not considered as a machine themselves, but as components of a machine. The CE and the WLL markings in consequence, are mandatory only on the assembled sling tag as the sling is the machine according to MD 2006/42/EC. This rule is still valid with the new Machine Regulation 2023/1230 which will replace the MD cited previously within early 2027.

Finish

All stainless steel items are polished.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

Please refer to the previous product chapters in this catalogue for details on the use of specific items.
In general, items should be inspected before use to ensure that:

- all markings are legible;
- items are not distorted or unduly worn;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the item is free from nicks, gouges and cracks.

Also:

- never modify, repair or reshape an item by machining, welding, heating or bending, as this may affect the strength;
- make sure to select items with the correct WLL;
- make sure that the master links and the other items of the sling are all made of stainless steel suitable for lifting purposes;
- items should be used for in-line lifting only;
- items may not be heat treated, as this may affect their WLL.

Stainless steel products must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the products are used in severe operating conditions.

Corrosion resistance table for stainless steel AISI 316L

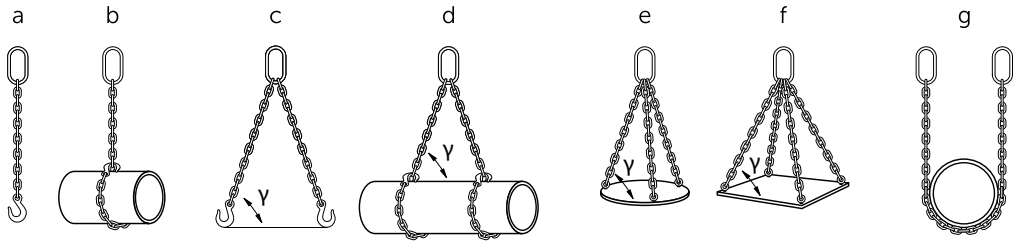
This table offers a general guideline only. The material must always be tested for your specific conditions.

Acetic acid <20 %	**S**
Ammonia (100 %)	**S**
Ammonium chloride <1 %	**S**
Ammonium nitrate 10 % - 50 %	**S**
Ammonium sulphate <10 %	**L**
Benzene	**S**
Calcium hypochlorite (100 %)	**U**
Citric acid <10 %	**S**
Copper sulphate <10 %	**S**
Ethanol	**S**
Gasoline	**S**
Hydrochloric acid (all concentra-tions)	**U**

Hydrogen cyanide 100 %	**L**
Hydrogen peroxide <35 %	**S**
Hydrogen sulphide 100 %	**S**
Mineral oil	**S**
Nitric acid <10 %	**S**
Potassium sulphate <10 %	**S**
Sodium chloride <5 %	**S**
Sodium hypochlorite <20 %	**L**
Sodium nitrate 10 % - 40 %	**S**
Sodium sulphate <10 %	**S**
Zinc chloride <10 %	**S**
Zinc sulphate <10 %	**S**

Abbreviations used
S = satisfactory, no or very little corrosion
L = limited resistance, exposure time must be limited, some corrosion might occur
U = unsatisfactory, not suitable for use

Configuration examples



Working Load Limit table for stainless steel chain slings

Chain Ø	90°	γ	γ	γ	Endless Sling
	1 leg sling	2 leg sling			3 or 4 leg sling			Endless Sling
	90°	90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	90° γ ≥ 60°	60° > γ ≥ 45°	45° > γ ≥ 30°	
		Safety factor 1.73	Safety factor 1.4	Safety factor 1.0	Safety factor 2.6	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
inch	t	t	t	t	t	t	t	t
7/32	0.70	1.21	1.00	0.70	1.82	1.47	1.05	1.12
5/16	1.20	2.08	1.70	1.20	3.12	2.50	1.80	1.92
3/8	1.60	2.77	2.24	1.60	4.16	3.36	2.40	2.56
1/2	2.70	4.67	3.80	2.70	7.02	5.70	4.05	4.32

Angle reduction tables for stainless steel eye bolts

group	number of leg(s)		1	2	1	2	2		2	3 & 4		3 & 4
	load direction		0°	0°	90°	90°	0-45°	45-60°	non-sym-metrical	0-45°	45-60°	non-sym-metrical
	safety factor		1	2	0.5	1	1.4	0.5	0.5	2.1	0.75	0.5
	article	diameter thread (metric)	t	t	t	t	t	t	t	t	t	t
ALI / ALDINI	GPAL06I	6	0.12	0.24	0.06	0.12	0.17	0.06	0.06	0.25	0.09	0.06
	GPAL08I / GPAL08DINI	8	0.2	0.40	0.10	0.20	0.28	0.10	0.10	0.42	0.15	0.10
	GPAL10I / GPAL10DINI	10	0.4	0.80	0.20	0.40	0.56	0.20	0.20	0.84	0.30	0.20
	GPAL12I / GPAL12DINI	12	0.6	1.20	0.30	0.60	0.84	0.30	0.30	1.26	0.45	0.30
	GPAL14I / GPAL14DINI	14	0.8	1.60	0.40	0.80	1.12	0.40	0.40	1.68	0.60	0.40
	GPAL16I / GPAL16DINI	16	1	2.00	0.50	1.00	1.40	0.50	0.50	2.10	0.75	0.50
	GPAL18I / GPAL18DINI	18	1.5	3.00	0.75	1.50	2.10	0.75	0.75	3.15	1.13	0.75
	GPAL20I / GPAL20DINI	20	2	4.00	1.00	2.00	2.80	1.00	1.00	4.20	1.50	1.00
	GPAL22I / GPAL22DINI	22	2.5	5.00	1.25	2.50	3.50	1.25	1.25	5.25	1.88	1.25
	GPAL24I / GPAL24DINI	24	3	6.00	1.50	3.00	4.20	1.50	1.50	6.30	2.25	1.50

group	number of leg(s)		1	2	2	3 & 4
	load direction		0°	0°	0-30°	0-30°
	safety factor		1	2	1.4	2.1
	article	diameter thread (metric)	t	t	t	t
ELI	GPEL06I	6	0.12	0.2	0.2	0.3
	GPEL08I	8	0.2	0.4	0.3	0.4
	GPEL10I	10	0.4	0.8	0.6	0.8
	GPEL12I	12	0.6	1.2	0.8	1.3
	GPEL14I	14	0.8	1.6	1.1	1.7
	GPEL16I	16	1	2.0	1.4	2.1
	GPEL18I	18	1.5	3.0	2.1	3.2
	GPEL20I	20	2	4.0	2.8	4.2
	GPEL22I	22	2.5	5.0	3.5	5.3
	GPEL24I	24	3	6.0	4.2	6.3
	GPEL27I	27	3.5	7.0	4.9	7.4

Note: - Never use ELI with an angle less than 30° to the horizontal, as the maximum WLL increase significantly
- WLL values only apply with stainless steel thread bolts of quality class equivalent to AISI316L

group	number of leg(s)			1	2	1	2	2		2	3 & 4		3 & 4
	load direction			0°	0°	90°	90°	0-45°	45-60°	non-sym-metrical	0-45°	45-60°	non-sym-metrical
	safety factor			1	2	1	2	1.4	1	1	2.1	1.5	1
	article	welding seam											
		size	length	t	t	t	t	t	t	t	t	t	t
PASI	GPPAS0.75I	a8 z11	$^{3}/_{32}$ x 1 $^{3}/_{8}$ inch	0.75	1.5	0.75	1.5	1.05	0.75	0.75	1.575	1.125	0.75
	GPPAS1.25I	a9 z13	$^{3}/_{32}$ x 1 $^{21}/_{32}$ inch	1.25	2.5	1.25	2.5	1.75	1.25	1.25	2.625	1.875	1.25
	GPPAS3.20I	a11 z16	$^{3}/_{32}$ x 1 $^{15}/_{16}$ inch	3.2	6.4	3.2	6.4	4.48	3.2	3.2	6.72	4.8	3.2
	GPPAS5I	a14 z20	$^{3}/_{32}$ x 2 $^{17}/_{32}$ inch	5	10	5	10	7	5	5	10.5	7.5	5

Note: Regarding the selection of welding material, respecting parent and PASI materials
Please refer to EN 3581 for manual metal arc welding and to ISO 14343 for arc welding

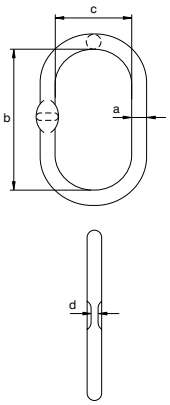
Green Pin® Master Link S/S-GR5

Grade 50 stainless steel master link

Scan for additional product details

- **Material:** Duplex 1.4462, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** blasted
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] CE IIB
- **Article code:** scan QR code to see article codes

MSI



diameter	diameter chain 1 leg	diameter chain 2 legs			working load limit	length inside	width inside	thickness	weight each
a inch	inch	90° γ ≥ 60° inch	60°> γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	lbs
1/2	7/32	-	-	7/32	1	4 11/32	2 3/8	1/4	0.75
5/8	5/16	7/32	7/32	5/16	1.25	4 11/32	2 3/8	1/4	1.17
23/32	3/8	-	5/16	3/8	2	5 5/16	2 15/16	11/32	1.81
7/8	1/2	3/8	3/8	1/2	3.2	6 5/16	3 17/32	13/32	3.2
1 1/32	5/8	1/2	1/2	5/8	5	7 3/32	3 15/16	1/2	5.05

CAD

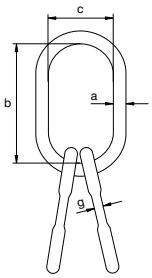
Green Pin® Master Link Assembly S/S-GR5

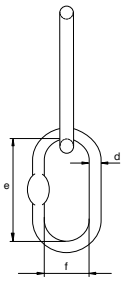
Grade 50 stainless steel master link assembly

Scan for additional product details

- **Material:** Duplex 1.4462, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** blasted
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] CE IIB
- **Article code:** scan QR code to see article codes

MTSI





diameter	diameter chain 3/4 legs			working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	90° ≥ γ ≥ 60° inch	60° > γ ≥ 45° inch	45° > γ ≥ 30° inch	metric t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
23/32	-	7/32	7/32	1.6	5 5/16	2 15/16	1/2	2 1/8	31/32	1/4	2.58
7/8	-	5/16	5/16	2.65	6 5/16	3 17/32	5/8	2 3/4	1 11/32	11/32	4.78
1 1/32	3/8	3/8	3/8	4.25	7 3/32	3 15/16	23/32	3 11/32	1 9/16	11/32	7.36
1 1/4	-	1/2	1/2	6.7	7 7/8	4 11/32	7/8	4 17/32	1 31/32	17/32	13.21

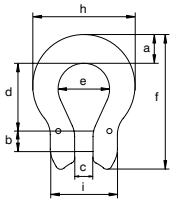
CAD

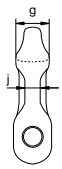
Scan for additional product details

Green Pin® Omega Link S/S-GR5

Grade 50 stainless steel omega link

COI





- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pin available for $^{3}/_{16}$ inch hoist chain on request, which can be combined with GPCO6I

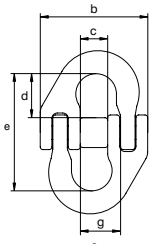
for chain diameter	working load limit	width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
$^{7}/_{32}$	0.7	$^{17}/_{32}$	$^{5}/_{16}$	$^{9}/_{32}$	$^{31}/_{32}$	$^{25}/_{32}$	2 $^{3}/_{32}$	$^{1}/_{2}$	1 $^{5}/_{8}$	1 $^{3}/_{32}$	$^{1}/_{4}$	0.15
$^{1}/_{4}$ - $^{5}/_{16}$	1.2	$^{25}/_{32}$	$^{11}/_{32}$	$^{11}/_{32}$	1 $^{11}/_{32}$	$^{15}/_{16}$	2 $^{25}/_{32}$	$^{5}/_{8}$	2 $^{5}/_{32}$	1 $^{1}/_{4}$	$^{11}/_{32}$	0.4
$^{3}/_{8}$	1.6	$^{3}/_{4}$	$^{1}/_{2}$	$^{15}/_{32}$	1 $^{9}/_{16}$	1 $^{7}/_{32}$	3 $^{7}/_{32}$	$^{21}/_{32}$	2 $^{15}/_{32}$	1 $^{21}/_{32}$	$^{7}/_{16}$	0.62
$^{1}/_{2}$	2.7	$^{31}/_{32}$	$^{5}/_{8}$	$^{19}/_{32}$	2	1 $^{9}/_{16}$	4 $^{3}/_{16}$	$^{25}/_{32}$	3 $^{5}/_{16}$	2 $^{1}/_{8}$	$^{17}/_{32}$	1.41

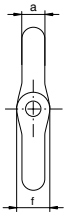
CAD INFO

Green Pin® Connecting Link S/S-GR5

Grade 50 stainless steel connecting link

MJI





- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes

for chain diameter	working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
$^{7}/_{32}$	0.7	$^{5}/_{16}$	1 $^{21}/_{32}$	$^{13}/_{32}$	$^{25}/_{32}$	2 $^{1}/_{16}$	$^{13}/_{32}$	$^{19}/_{32}$	0.2
$^{1}/_{4}$ - $^{5}/_{16}$	1.2	$^{11}/_{32}$	2 $^{3}/_{32}$	$^{9}/_{16}$	$^{13}/_{16}$	2 $^{5}/_{32}$	$^{1}/_{2}$	$^{25}/_{32}$	0.33
$^{3}/_{8}$	1.6	$^{1}/_{2}$	2 $^{19}/_{32}$	$^{23}/_{32}$	$^{15}/_{16}$	2 $^{17}/_{32}$	$^{23}/_{32}$	$^{15}/_{16}$	0.62
$^{1}/_{2}$	2.7	$^{23}/_{32}$	3 $^{9}/_{32}$	$^{13}/_{16}$	1 $^{1}/_{4}$	3 $^{11}/_{32}$	$^{15}/_{16}$	1 $^{3}/_{32}$	1.41

CAD INFO

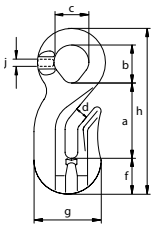
Green Pin® Grab Hook E S/S-GR5

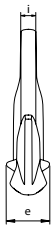
Grade 50 stainless steel eye grab hook

Scan for additional product details

- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes

CROI





for chain diameter	working load limit	length	inside length eye	inside width eye	opening	thickness	width	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	0.7	1 5/8	15/16	15/16	5/16	15/16	25/32	1 21/32	3 11/16	11/32	1/4	0.53
1/4 - 5/16	1.2	2 3/32	1 1/16	1 1/16	13/32	1 5/16	29/32	2 3/32	4 17/32	15/32	5/16	0.71
3/8	1.6	2 9/16	1 1/2	1 13/32	15/32	1 21/32	1 5/32	2 19/32	5 3/4	9/16	13/32	1.17
1/2	2.7	3 5/16	1 21/32	1 21/32	5/8	2 7/32	1 9/16	3 7/16	7 5/16	25/32	15/32	4.32

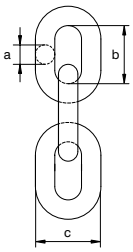
CAD

Green Pin® Lifting Chain S/S-GR5

Grade 50 stainless steel lifting chain

- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 MTC [b] CE IIB
- **Article code:** scan QR code to see article codes

CHAINI



diameter	working load limit	length inside	width outside	links per foot	length per drum	weight per meter
a inch	metric t	b inch	c inch		Ft	lbs
7/32	0.7	23/32	13/16	16.93	328	1.72
5/16	1.2	15/16	1 5/32	12.70	328	2.87
3/8	1.6	1 3/16	1 11/32	10.16	328	4.72
1/2	2.7	1 17/32	1 25/32	7.82	328	8.02

CAD

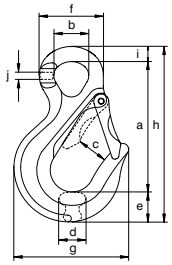
Scan for additional product details

Green Pin® Sling Hook E S/S-GR5

Grade 50 stainless steel eye sling hook

- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** generally to ISO 4779
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes

CSOI



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	diameter eye outside	width outside	length	width	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	0.7	3 3/8	15/16	1 1/32	19/32	3/4	1 11/16	2 27/32	4 1/2	3/8	1/4	0.62
1/4 - 5/16	1.2	4 1/16	1 1/32	1 3/16	25/32	15/16	2	3 7/16	5 15/32	15/32	5/16	1.26
3/8	1.6	5 3/32	1 13/32	1 5/16	15/16	1 3/32	2 9/16	4 3/16	6 23/32	9/16	13/32	2.25
1/2	2.7	5 31/32	1 5/8	1 15/32	1 7/32	1 17/32	3 1/32	5 1/4	8 7/32	23/32	15/32	4.34

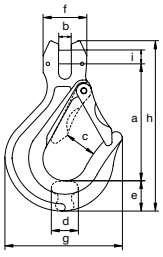
CAD INFO

Green Pin® Sling Hook CL S/S-GR5

Grade 50 stainless steel clevis sling hook

- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pin available for 3/16 inch hoist chain on request, which can be combined with GPCCS6I

CSCI



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	lbs
7/32	0.7	2 29/32	9/32	1 1/32	19/32	25/32	1 3/32	2 27/32	4 1/4	5/16	0.64
1/4 - 5/16	1.2	3 3/4	3/8	1 3/16	25/32	15/16	1 1/4	3 7/16	5 11/32	11/32	1.21
3/8	1.6	4 7/16	7/16	1 5/16	15/16	1 5/32	1 21/32	4 3/16	6 15/32	1/2	2.43
1/2	2.7	5 15/32	19/32	1 15/32	1 1/4	1 17/32	2 1/8	5 1/4	8 3/16	5/8	4.1

CAD INFO

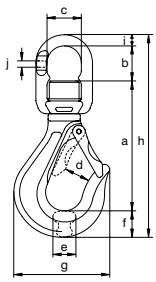
Green Pin® Sling Hook SE S/S-GR5

Grade 50 stainless steel swivel sling hook

Scan for additional product details

- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** equipped with a stainless steel washer

CSEI



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length outside	diameter	thickness	weight each
inch	metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	lbs
7/32	0.7	3 15/16	1 5/16	1 1/4	1 1/32	19/32	25/32	2 27/32	6 15/32	7/16	1/4	1.19
1/4 - 5/16	1.2	4 31/32	1 9/16	1 15/32	1 3/16	25/32	31/32	3 7/16	8 1/32	1/2	5/16	1.7
3/8	1.6	6 7/32	1 27/32	1 7/8	1 5/16	15/16	1 5/32	4 3/16	9 27/32	5/8	7/16	4.23
1/2	2.7	7 7/16	2 5/16	2 9/32	1 15/32	1 1/4	1 17/32	5 1/4	12 1/8	13/16	17/32	7.47

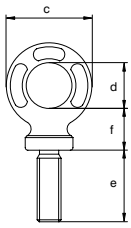
CAD INFO

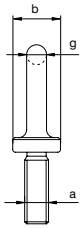
Scan for additional product details

Green Pin® Lifting Eye S/S-GR5

Grade 50 stainless steel lifting eye

ALI





- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

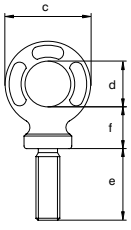
working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.12	M6 x 1.00	25/32	1 11/32	25/32	13/16	21/32	9/32	0.11
0.2	M8 x 1.25	25/32	1 11/32	25/32	15/16	21/32	9/32	0.11
0.4	M10 x 1.50	25/32	1 1/2	7/8	1 3/16	3/4	5/16	0.18
0.6	M12 x 1.75	31/32	1 27/32	1 1/16	1 13/32	29/32	13/32	0.31
0.8	M14 x 2.00	1 3/16	2 1/4	1 3/16	1 9/16	1 1/16	17/32	0.57
1	M16 x 2.00	1 13/32	2 15/32	1 3/8	2 5/32	1 7/32	9/16	0.82
1.5	M18 x 2.50	1 13/32	2 15/32	1 3/8	2 5/32	1 7/32	9/16	1.08
2	M20 x 2.50	1 9/16	2 27/32	1 9/16	2 5/16	1 11/32	5/8	1.21
2.5	M22 x 2.50	1 21/32	3 7/32	1 25/32	2 19/32	1 1/2	23/32	1.72
3	M24 x 3.00	2 5/32	3 3/4	2 5/32	3 5/16	1 9/16	25/32	2.47

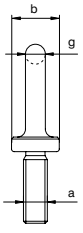
CAD INFO

Green Pin® Lifting Eye DIN580 length S/S-GR5

Grade 50 stainless steel lifting eye length as DIN580

ALDINI





- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.2	M8 x 1.25	25/32	1 11/32	25/32	1/2	21/32	9/32	0.11
0.4	M10 x 1.50	25/32	1 1/2	7/8	21/32	3/4	5/16	0.15
0.6	M12 x 1.75	31/32	1 27/32	1 1/16	13/16	29/32	13/32	0.29
0.8	M14 x 2.00	1 3/16	2 1/4	1 3/16	1 1/16	1 1/16	17/32	0.53
1	M16 x 2.00	1 13/32	2 15/32	1 3/8	1 1/16	1 7/32	9/16	0.75
1.5	M18 x 2.50	1 13/32	2 15/32	1 3/8	1 3/16	1 7/32	9/16	0.77
2	M20 x 2.50	1 9/16	2 27/32	1 9/16	1 3/16	1 11/32	5/8	1.15
2.5	M22 x 2.50	1 21/32	3 7/32	1 25/32	1 3/8	1 1/2	23/32	1.57
3	M24 x 3.00	2 5/32	3 3/4	2 5/32	1 13/32	1 9/16	25/32	2.16

CAD INFO

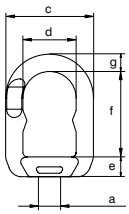
Scan for additional product details

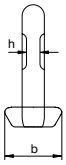
Green Pin® Eye Nut S/S-GR5

Grade 50 stainless steel eye nut

- **Material:** AISI 316L, grade 50
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

ELI





working load limit	diameter thread	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.12	M6 x 1.00	1 7/32	2	1 3/16	9/16	1 25/32	13/32	1/4	0.33
0.2	M8 x 1.25	1 7/32	2	1 3/16	9/16	1 25/32	13/32	1/4	0.33
0.4	M10 x 1.50	1 7/32	2	1 3/16	9/16	1 25/32	13/32	1/4	0.33
0.6	M12 x 1.75	1 17/32	2 7/32	1 1/4	9/16	1 7/8	15/32	1/4	0.51
0.8	M14 x 2.00	1 17/32	2 7/32	1 1/4	9/16	1 7/8	15/32	1/4	0.51
1	M16 x 2.00	1 23/32	2 9/16	1 15/32	5/8	2 3/8	9/16	5/16	0.82
1.5	M18 x 2.50	1 23/32	2 9/16	1 15/32	5/8	2 3/8	9/16	5/16	0.82
2	M20 x 2.50	1 23/32	2 9/16	1 15/32	5/8	2 3/8	9/16	5/16	0.82
2.5	M22 x 2.50	2 1/16	3 1/8	1 15/16	13/16	2 15/16	5/8	7/16	1.39
3	M24 x 3.00	2 1/16	3 1/8	1 15/16	13/16	2 15/16	5/8	7/16	1.39
3.5	M27 x 3.00	2 1/16	3 1/8	1 15/16	13/16	2 15/16	5/8	7/16	1.39

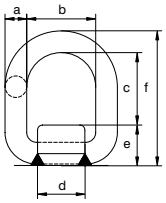
CAD

Green Pin® Weld-On Transport Ring S/S-GR5

Grade 50 stainless steel weld-on transport ring

- **Material:** AISI 316, grade 50
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** regarding the selection of welding material, respecting parent and PASI materials, please refer to EN 3581 for manual metal arc welding and to EN ISO 14343 for arc welding

PASI



working load limit	diameter	width inside	length inside	length base	height base	length	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
0.75	1/2	1 9/16	1 5/8	1 3/8	1 3/32	3 7/32	0.93
1.25	23/32	1 25/32	1 7/8	1 21/32	1 5/16	3 29/32	1.65
3.2	7/8	2 5/32	2 1/4	1 15/16	1 21/32	4 23/32	3.09
5	1 1/32	2 3/4	2 19/32	2 17/32	1 31/32	5 19/32	5.53

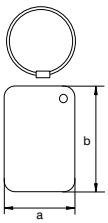
CAD INFO

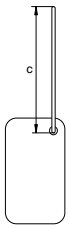
Green Pin® ID Tag S/S-GR5

Grade 50 stainless steel identification tag

- **Material:** AISI 316L, grade 50
- **Finish:** polished
- **Certification:** 2.1

TAGI



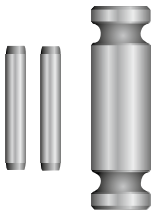


width	length	length	weight each
a inch	b inch	c inch	lbs
1 31/32	3 5/32	12	0.15

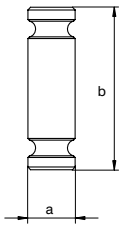
Green Pin® Clevis Fittings S/S-GR5 Spare Kit

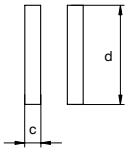
Grade 50 stainless steel spare kit for clevis fittings

- **Material:** AISI 316L, grade 50
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB
- **Note:** GPAC5I can be used for lifting and hoist chain



ACI





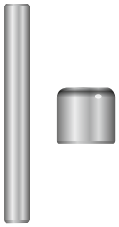
partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
GPAC5I	1/4	1 3/32	1/8	9/16	0.02
GPAC6I	5/16	1 3/32	1/8	9/16	0.02
GPAC7/8I	11/32	1 1/4	1/8	7/8	0.04
GPAC10I	1/2	1 5/8	5/32	15/16	0.09
GPAC13I	5/8	2 3/32	5/32	1 1/4	0.18

partnumber	for fitting	
	COI	CSCI
GPAC5I	GPCO5I	GPCSC5I
GPAC6I	GPCO6I	GPCSC6I
GPAC7/8I	GPCO7/8I	GPCSC7/8I
GPAC10I	GPCO10I	GPCSC10I
GPAC13I	GPCO13I	GPCSC13I

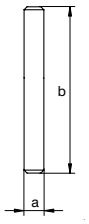
Green Pin® Connecting Link S/S-GR5 Spare Kit

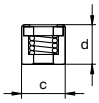
Grade 50 stainless steel spare kit for connecting link

- **Material:** AISI 316L, grade 50
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 3.1 CE IIB



RMJI





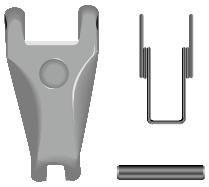
partnumber	diameter pin	length pin	diameter	width	weight each
	a inch	b inch	c inch	d inch	lbs
GPRMJ6I	3/16	1 5/8	15/32	7/16	0.02
GPRMJ7/8I	1/4	2 1/8	1/2	9/16	0.04
GPRMJ10I	5/16	2 19/32	19/32	5/8	0.04
GPRMJ13I	13/32	3 5/16	7/8	21/32	0.18

partnumber	for fitting
	MJI
GPRMJ6I	GPMJ6I
GPRMJ7/8I	GPMJ7/8I
GPRMJ10I	GPMJ10I
GPRMJ13I	GPMJ13I

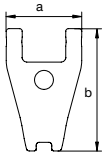
Green Pin® Latch S/S-GR5

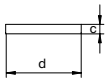
Grade 50 stainless steel forged latch

- **Material:** AISI 316L, grade 50
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 CE IIB



LFI





partnumber	width	length	diameter pin	length pin	weight each
	a inch	b inch	c inch	d inch	lbs
LF0I	15/16	1 23/32	5/32	15/16	0.09
LF1I	1 7/32	2 5/16	3/16	1 3/16	0.11
LF2I	1 5/8	2 9/16	3/16	1 9/16	0.22
LF3I	1 5/8	3 1/8	1/4	1 9/16	0.44

partnumber	for fitting		
	CSOI	CSCI	CSEI
LF0I	GPCSO6I	GPCSC5I	GPCSE6I
		GPCSC6I	
LF1I	GPCSO7/8I	GPCSC7/8I	GPCSE7/8I
LF2I	GPCSO10I	GPCSC10I	GPCSE10I
LF3I	GPCSO13I	GPCSC13I	GPCSE13I

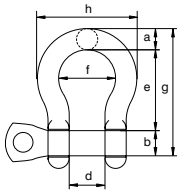
Scan for additional product details

Green Pin® Bow Shackle S/S-GR5

Grade 50 stainless steel bow shackle with screw collar pin

- **Material:** AISI 316, grade 50
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Note:** marked with GP, WLL and CE

MLVI



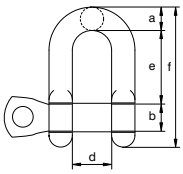
working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	length	width	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
0.4	5/16	5/16	5/8	5/8	1 1/4	15/16	2 1/16	1 9/16	0.13
0.6	13/32	13/32	3/4	25/32	1 9/16	1 3/16	2 9/16	1 31/32	0.26
0.9	15/32	15/32	15/16	31/32	1 15/16	1 13/32	3	2 3/8	0.44
1.5	1/2	5/8	1 7/32	15/16	2 1/16	1 3/8	3 1/2	2 5/16	0.71
2.5	5/8	25/32	1 1/2	1 3/32	2 13/32	1 11/16	4 3/16	2 15/16	1.28
3	3/4	7/8	1 23/32	1 1/4	2 27/32	2	4 7/8	3 1/2	2.12
4	7/8	31/32	1 31/32	1 15/32	3 11/32	2 9/32	5 23/32	4 1/32	3.22
6	31/32	1 3/16	2 1/4	1 9/16	3 3/4	2 19/32	6 15/32	4 9/16	4.61

Green Pin® Dee Shackle S/S-GR5

Grade 50 stainless steel dee shackle with screw collar pin

- **Material:** AISI 316, grade 50
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40 °F up to +392 °F
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Note:** marked with GP, WLL and CE

MDVI



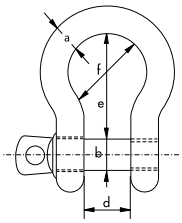
working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	length	weight each
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
0.4	5/16	5/16	5/8	5/8	1 1/4	2 1/16	0.13
0.6	13/32	13/32	3/4	25/32	1 9/16	2 9/16	0.24
0.9	15/32	15/32	15/16	31/32	1 7/8	3 1/16	0.42
1.5	1/2	5/8	1 7/32	15/16	2 1/16	3 1/2	0.66
2.5	5/8	25/32	1 1/2	1 3/32	2 17/32	4 9/32	1.26
3	3/4	7/8	1 23/32	1 1/4	2 27/32	4 7/8	1.98
4	7/8	31/32	1 31/32	1 15/32	2 29/32	5 9/32	2.93
6	31/32	1 3/16	2 1/4	1 9/16	3 11/16	6 13/32	4.37

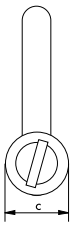
C

Shackles, bow shackles with screw pin

Bow shackles with screw pin

R-7825





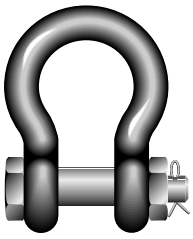
- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** generally to DIN 82103
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Note:** marked with WLL, CE and manufacturer identification symbol (VBS), except for $^{5}/_{32}$ inch as it is too small

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
-	$^{5}/_{32}$	$^{5}/_{32}$	$^{5}/_{16}$	$^{5}/_{16}$	$^{5}/_{8}$	$^{15}/_{32}$	2.65
0.12	$^{3}/_{16}$	$^{3}/_{16}$	$^{13}/_{32}$	$^{13}/_{32}$	$^{25}/_{32}$	$^{19}/_{32}$	3.97
0.15	$^{1}/_{4}$	$^{1}/_{4}$	$^{15}/_{32}$	$^{15}/_{32}$	$^{15}/_{16}$	$^{23}/_{32}$	5.95
0.3	$^{5}/_{16}$	$^{5}/_{16}$	$^{5}/_{8}$	$^{5}/_{8}$	$1\ ^{1}/_{4}$	$^{15}/_{16}$	13.89
0.4	$^{13}/_{32}$	$^{13}/_{32}$	$^{25}/_{32}$	$^{25}/_{32}$	$1\ ^{9}/_{16}$	$1\ ^{3}/_{16}$	27.1
0.6	$^{15}/_{32}$	$^{15}/_{32}$	$^{15}/_{16}$	$^{15}/_{16}$	$1\ ^{7}/_{8}$	$1\ ^{13}/_{32}$	45.2
1	$^{5}/_{8}$	$^{5}/_{8}$	$1\ ^{1}/_{4}$	$1\ ^{1}/_{4}$	$2\ ^{17}/_{32}$	$1\ ^{7}/_{8}$	106
1.5	$^{25}/_{32}$	$^{25}/_{32}$	$1\ ^{9}/_{16}$	$1\ ^{9}/_{16}$	$3\ ^{5}/_{32}$	$2\ ^{3}/_{8}$	214
2	$^{7}/_{8}$	$^{7}/_{8}$	$1\ ^{23}/_{32}$	$1\ ^{23}/_{32}$	$3\ ^{15}/_{32}$	$2\ ^{19}/_{32}$	322
3	$^{31}/_{32}$	$^{31}/_{32}$	$1\ ^{31}/_{32}$	$1\ ^{31}/_{32}$	$3\ ^{15}/_{16}$	$2\ ^{15}/_{16}$	465
3.6	$1\ ^{3}/_{32}$	$1\ ^{3}/_{32}$	$2\ ^{1}/_{8}$	$2\ ^{7}/_{32}$	$4\ ^{9}/_{16}$	$3\ ^{3}/_{8}$	628

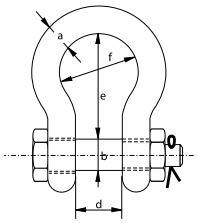
C

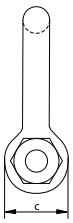
Shackles, bow shackles with safety bolt

Bow shackles with safety bolt



R-7827





- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Note:** marked with WLL, CE, traceability code and manufacturer identification symbol (VBS)

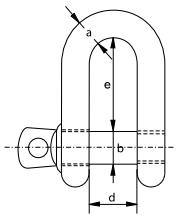
working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
metric t	a inch	b inch	c inch	d inch	e inch	f inch	lbs
0.3	$^{5}/_{16}$	$^{5}/_{16}$	$^{5}/_{8}$	$^{5}/_{8}$	$1\ ^{1}/_{4}$	$^{15}/_{16}$	16.31
0.4	$^{13}/_{32}$	$^{13}/_{32}$	$^{3}/_{4}$	$^{25}/_{32}$	$1\ ^{9}/_{16}$	$1\ ^{3}/_{16}$	32
0.6	$^{15}/_{32}$	$^{15}/_{32}$	$^{15}/_{16}$	$^{31}/_{32}$	$1\ ^{15}/_{16}$	$1\ ^{13}/_{32}$	51
1	$^{5}/_{8}$	$^{5}/_{8}$	$1\ ^{7}/_{32}$	$1\ ^{1}/_{4}$	$2\ ^{17}/_{32}$	$1\ ^{7}/_{8}$	125
1.5	$^{3}/_{4}$	$^{3}/_{4}$	$1\ ^{1}/_{2}$	$1\ ^{1}/_{2}$	$3\ ^{5}/_{32}$	$2\ ^{3}/_{8}$	219
2	$^{7}/_{8}$	$^{7}/_{8}$	$1\ ^{11}/_{16}$	$1\ ^{23}/_{32}$	$3\ ^{11}/_{32}$	$2\ ^{19}/_{32}$	322
3	$^{31}/_{32}$	$^{31}/_{32}$	$1\ ^{15}/_{16}$	$1\ ^{31}/_{32}$	$3\ ^{15}/_{16}$	$2\ ^{15}/_{16}$	481

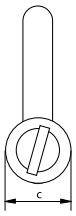
C

Shackles, dee shackles with screw pin

Dee shackles with screw pin

R-7821





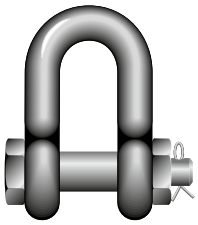
- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** generally to DIN 82102
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Note:** marked with WLL, CE and manufacturer identification symbol (VBS), except for $^{5}/_{32}$ inch as it is too small

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
metric t	a inch	b inch	c inch	d inch	e inch	lbs
-	$^{5}/_{32}$	$^{5}/_{32}$	$^{5}/_{16}$	$^{5}/_{16}$	$^{5}/_{8}$	1.98
0.12	$^{3}/_{16}$	$^{3}/_{16}$	$^{13}/_{32}$	$^{13}/_{32}$	$^{25}/_{32}$	3.53
0.15	$^{1}/_{4}$	$^{1}/_{4}$	$^{15}/_{32}$	$^{15}/_{32}$	$^{15}/_{16}$	5.73
0.3	$^{5}/_{16}$	$^{5}/_{16}$	$^{5}/_{8}$	$^{5}/_{8}$	1 $^{1}/_{4}$	12.35
0.4	$^{13}/_{32}$	$^{13}/_{32}$	$^{25}/_{32}$	$^{25}/_{32}$	1 $^{9}/_{16}$	28.7
0.6	$^{15}/_{32}$	$^{15}/_{32}$	$^{15}/_{16}$	$^{15}/_{16}$	1 $^{7}/_{8}$	44.1
1	$^{5}/_{8}$	$^{5}/_{8}$	1 $^{1}/_{4}$	1 $^{1}/_{4}$	2 $^{17}/_{32}$	106
1.5	$^{25}/_{32}$	$^{25}/_{32}$	1 $^{9}/_{16}$	1 $^{9}/_{16}$	3 $^{5}/_{32}$	172
2	$^{7}/_{8}$	$^{7}/_{8}$	1 $^{23}/_{32}$	1 $^{23}/_{32}$	3 $^{15}/_{32}$	280
3	$^{31}/_{32}$	$^{31}/_{32}$	1 $^{31}/_{32}$	1 $^{31}/_{32}$	3 $^{15}/_{16}$	406
3.6	1 $^{3}/_{32}$	1 $^{3}/_{32}$	2 $^{1}/_{8}$	2 $^{7}/_{32}$	4 $^{3}/_{16}$	551

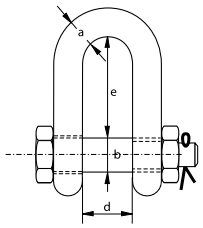
C

Shackles, dee shackles with safety bolt

Dee shackles with safety bolt



R-7823



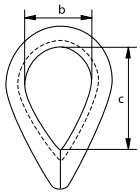
- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Note:** marked with WLL, CE, traceability code and manufacturer identification symbol (VBS)

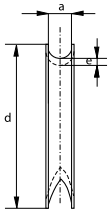
working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
metric t	a inch	b inch	c inch	d inch	e inch	lbs
0.3	$^{5}/_{16}$	$^{5}/_{16}$	$^{5}/_{8}$	$^{5}/_{8}$	1 $^{1}/_{4}$	15.65
0.4	$^{13}/_{32}$	$^{13}/_{32}$	$^{3}/_{4}$	$^{25}/_{32}$	1 $^{9}/_{16}$	30.9
0.6	$^{15}/_{32}$	$^{15}/_{32}$	$^{15}/_{16}$	$^{31}/_{32}$	1 $^{7}/_{8}$	52
1	$^{5}/_{8}$	$^{5}/_{8}$	1 $^{7}/_{32}$	1 $^{1}/_{4}$	2 $^{17}/_{32}$	120
1.5	$^{3}/_{4}$	$^{3}/_{4}$	1 $^{1}/_{2}$	1 $^{1}/_{2}$	3	212
2	$^{7}/_{8}$	$^{7}/_{8}$	1 $^{11}/_{16}$	1 $^{23}/_{32}$	3 $^{11}/_{32}$	313
3	$^{31}/_{32}$	$^{31}/_{32}$	1 $^{15}/_{16}$	1 $^{31}/_{32}$	3 $^{3}/_{4}$	461

C

Thimbles, heavy type

R-7860





- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1 CE IIB

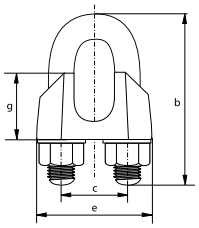
width groove	width inside	length inside	length	thickness	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	lbs
3/32	11/32	19/32	29/32	1/32	0.44
3/32	3/8	5/8	15/16	1/32	0.44
1/8	13/32	5/8	31/32	1/32	0.66
5/32	7/16	21/32	1 3/32	1/32	1.1
3/16	1/2	25/32	1 1/4	1/32	1.1
1/4	5/8	31/32	1 17/32	1/16	1.76
9/32	23/32	1 3/32	1 9/16	1/16	2.2
5/16	25/32	1 1/4	1 15/16	1/16	2.65
13/32	1 1/32	1 9/16	2 5/32	1/16	7.5
15/32	1 3/32	1 25/32	2 3/4	3/32	9.92
9/16	1 11/32	2 7/32	3 5/32	3/32	16.09
5/8	1 15/32	2 7/16	3 11/32	3/32	26.9
23/32	1 21/32	2 9/16	3 3/4	3/32	33.3
25/32	1 25/32	3 1/16	4 17/32	1/8	41.9
7/8	1 31/32	3 15/32	4 29/32	1/8	49.2
15/16	2 9/32	3 25/32	5 5/16	5/32	89
1 1/32	2 19/32	4 1/8	5 1/2	5/32	110

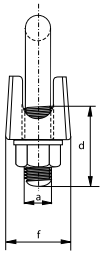
C

Wire rope clips

Generally to DIN 741

R-7863





- **Material:** AISI 316
- **Standard:** generally to DIN 741
- **Finish:** polished
- **Certification:** 2.1 CE IIB

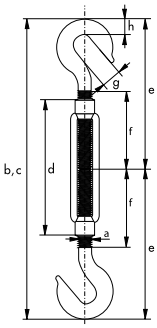
diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
1/8	5/32	25/32	11/32	15/32	13/16	13/32	13/32	3.09
5/32	5/32	7/8	11/32	15/32	13/16	13/32	13/32	3.09
3/16	3/16	15/16	7/16	1/2	29/32	7/16	13/32	3.31
1/4	3/16	1 3/32	1/2	19/32	1 1/32	15/32	7/16	4.63
5/16	1/4	1 11/32	5/8	3/4	1 3/16	9/16	19/32	7.72
13/32	5/16	1 21/32	3/4	7/8	1 11/32	23/32	21/32	13.45
1/2	13/32	2 5/32	15/16	1 3/16	1 21/32	29/32	13/16	28.7
5/8	15/32	2 15/32	1 5/32	1 5/16	1 31/32	1 1/32	1 1/32	46.3
3/4	15/32	2 15/16	1 1/4	1 1/2	2 1/8	1 5/32	1 3/16	57
7/8	9/16	3 11/32	1 15/32	1 23/32	2 13/32	1 5/16	1 11/32	88
1 1/32	9/16	3 3/4	1 5/8	1 25/32	2 9/16	1 3/8	1 15/32	97

C

Open body rigging screws Hook-Hook

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

R-7837

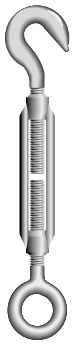


diameter thread	length closed position	length open position	length body	length	length	length	opening hook	thickness	weight each
a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch		lbs
M5	4 23/32	6 11/16	2 3/4	2 9/32	1 5/16	5/16	3/16		0.09
M6	5 29/32	8 9/32	3 17/32	2 7/8	1 11/16	11/32	1/4		0.18
M8	7 7/8	11 13/32	4 23/32	3 27/32	2 7/32	7/16	5/16		0.35
M10	9 7/16	13 31/32	5 29/32	4 19/32	2 25/32	15/32	11/32		0.6
M12	12 7/32	18 1/2	7 7/8	6 3/16	3 3/4	9/16	7/16		1.12
M16	15 11/32	23 7/32	9 27/32	7 5/16	4 9/16	5/8	19/32		2.65
M20	17 5/16	26 9/16	11 13/16	8 7/16	5 15/32	23/32	3/4		4.19

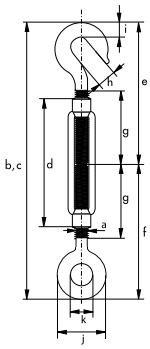
C

Open body rigging screws Hook-Eye

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7838



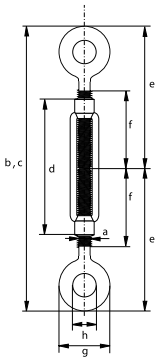
diameter thread	length closed position	length open position	length body	length	length	length	opening hook	thickness	diameter eye outside	diameter eye inside	weight each
a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	lbs
M5	4 23/32	6 11/16	2 3/4	2 9/32	2 7/32	1 5/16	5/16	3/16	21/32	5/16	0.09
M6	5 29/32	8 9/32	3 17/32	2 7/8	2 25/32	1 11/16	11/32	1/4	13/16	13/32	0.18
M8	7 7/8	11 13/32	4 23/32	3 27/32	3 3/4	2 7/32	7/16	5/16	1 3/32	9/16	0.35
M10	9 7/16	13 31/32	5 29/32	4 19/32	4 21/32	2 25/32	15/32	11/32	1 11/32	5/8	0.6
M12	12 7/32	18 1/2	7 7/8	6 3/16	6 1/16	3 3/4	9/16	7/16	1 9/16	23/32	1.12
M16	15 11/32	23 7/32	9 27/32	7 5/16	7 15/32	4 9/16	5/8	19/32	2 1/8	1 1/32	2.65
M20	17 5/16	26 9/16	11 13/16	8 7/16	8 21/32	5 15/32	23/32	3/4	2 17/32	1 3/16	4.19

C

Open body rigging screws Eye-Eye

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

R-7839



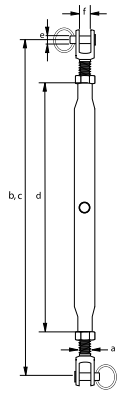
diameter thread	length closed position	length open position	length body	length	length	diameter eye outside	diameter eye inside	weight each
a mm	b inch	c inch	d inch	e inch	f inch	g inch	h inch	lbs
M5	4 23/32	6 11/16	2 3/4	2 7/32	1 5/16	21/32	5/16	0.09
M6	5 29/32	8 9/32	3 17/32	2 25/32	1 11/16	13/16	13/32	0.18
M8	7 7/8	11 13/32	4 23/32	3 3/4	2 7/32	1 3/32	9/16	0.35
M10	9 7/16	13 31/32	5 29/32	4 21/32	2 25/32	1 11/32	5/8	0.6
M12	12 7/32	18 1/2	7 7/8	6 1/16	3 3/4	1 9/16	23/32	1.12
M16	15 11/32	23 7/32	9 27/32	7 15/32	4 9/16	2 1/8	1 1/32	2.65
M20	17 5/16	26 9/16	11 13/16	8 21/32	5 15/32	2 17/32	1 3/16	4.19

C

Closed body rigging screws Jaw-Jaw

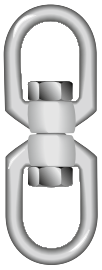
- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

R-7830

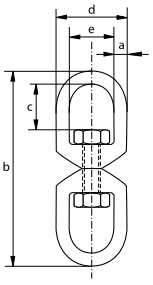


diameter thread	length open	length closed	length body	diameter pin	width jaw inside	weight per 100 pcs
a mm	b inch	c inch	d inch	e inch	f inch	lbs
M5	7 15/32	4 29/32	3 5/32	7/32	1/4	14.33
M6	8 9/32	6 3/32	3 3/4	1/4	9/32	17.86
M8	9 7/16	7 3/32	4 1/8	11/32	13/32	35.1
M10	10 5/8	8 21/32	4 29/32	3/8	15/32	66
M12	14 3/16	10 1/32	5 29/32	1/2	9/16	117
M14	15 5/32	10 5/8	6 1/2	1/2	9/16	141
M16	17 23/32	12 19/32	7 15/32	5/8	5/8	256
M20	17 23/32	13 31/32	8 9/32	3/4	25/32	320

C



R-7877



Swivels

Eye - Eye

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

diameter	length	length inside	width outside	width inside	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	lbs
3/16	2 3/8	1/2	29/32	1/2	7.5
1/4	2 9/16	19/32	1 1/32	19/32	11.24
5/16	3 17/32	7/8	1 3/8	25/32	28.9
13/32	4 17/32	1 1/16	1 23/32	15/16	57
1/2	6 1/16	1 3/8	2 1/4	1 1/4	128
5/8	7 13/32	1 25/32	2 25/32	1 17/32	231
3/4	9 1/32	1 31/32	3 5/16	1 5/8	485

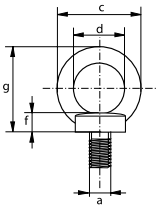
C

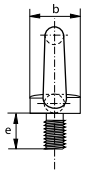
Eye bolts

Generally to DIN 580

- **Material:** AISI 316
- **Standard:** generally to DIN 580
- **Finish:** polished
- **Certification:** 2.1

R-7840





working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length thread	thickness base	height	weight per 100 pcs
metric t	a mm	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.07	M6	25/32	1 13/32	25/32	1/2	1/4	1 13/32	6.61
0.14	M8	25/32	1 13/32	25/32	1/2	1/4	1 13/32	13.23
0.23	M10	31/32	1 25/32	31/32	21/32	5/16	1 25/32	22.7
0.34	M12	1 3/16	2 1/8	1 3/16	13/16	13/32	2 3/32	39
-	M16	1 3/8	2 15/32	1 3/8	1 1/16	15/32	2 7/16	62
1.2	M20	1 9/16	2 27/32	1 9/16	1 3/16	9/16	2 25/32	99
1.8	M24	1 25/32	3 17/32	1 25/32	1 13/32	23/32	3 17/32	163

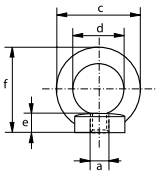
C

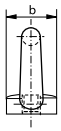
Eye nuts

Generally to DIN 582

- **Material:** AISI 316
- **Standard:** generally to DIN 582
- **Finish:** polished
- **Certification:** 2.1

R-7842

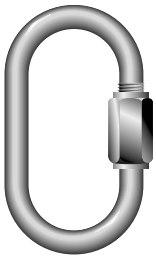




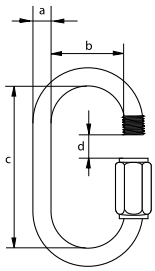
diameter thread	diameter base	diameter eye outside	diameter eye inside	thickness base	height	weight per 100 pcs
a mm	b inch	c inch	d inch	e inch	f inch	lbs
M6	25/32	1 13/32	25/32	11/32	1 13/32	9.26
M8	25/32	1 13/32	25/32	11/32	1 13/32	11.46
M10	31/32	1 25/32	31/32	13/32	1 25/32	20.7
M12	1 3/16	2 1/8	1 3/16	7/16	2 3/32	32.6
M16	1 3/8	2 15/32	1 3/8	1/2	2 7/16	52

C

Quick links, standard type



R-7873

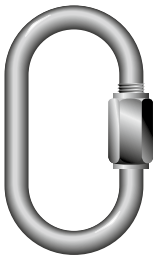


- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

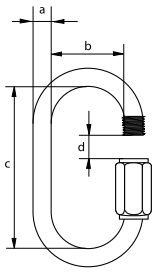
diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	kg	lbs
1/8	13/32	1 5/32	3/16	155	1.98
5/32	15/32	1 1/4	7/32	450	2.65
3/16	1/2	1 17/32	1/4	585	4.41
1/4	9/16	1 13/16	9/32	790	7.28
9/32	5/8	2	11/32	1085	11.68
5/16	21/32	2 5/16	13/32	1380	16.53
11/32	21/32	2 17/32	7/16	1790	22.7
13/32	25/32	2 3/4	1/2	2085	30.2
15/32	29/32	3 9/32	9/16	2265	49.6

C

Quick links, with enlarged opening



R-7874

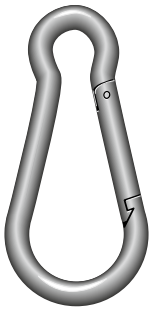


- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

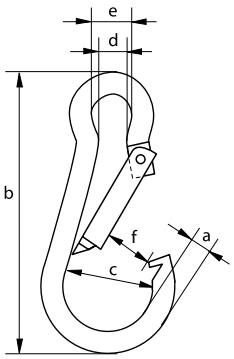
diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	kg	lbs
1/8	13/32	1 9/16	13/32	155	2.65
3/16	9/16	2 1/16	9/16	585	5.73
1/4	5/8	2 3/8	5/8	790	8.82
5/16	23/32	2 29/32	23/32	1380	20.1
13/32	25/32	3 11/32	25/32	2085	35.1
15/32	29/32	3 27/32	29/32	2265	67
9/16	1 1/16	4 9/16	1 1/32	2540	89

C

Carabine hooks, standard type



R-7872

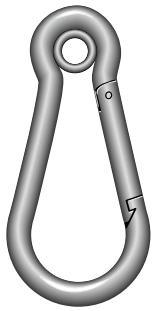


- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

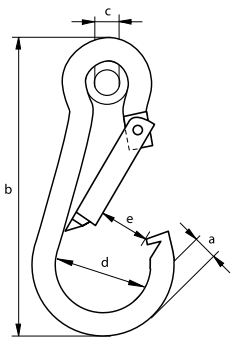
diameter	length	width	width inside	width inside	width opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	f inch	kg	lbs
5/32	1 9/16	9/16	3/16	9/32	7/32	70	1.76
3/16	1 31/32	5/8	9/32	5/16	9/32	110	3.31
1/4	2 3/8	23/32	9/32	11/32	11/32	132	5.73
9/32	2 3/4	7/8	11/32	13/32	13/32	198	5.73
5/16	3 5/32	15/16	7/16	15/32	1/2	330	9.7
11/32	3 17/32	1 1/32	7/16	15/32	13/32	363	14.11
13/32	3 15/16	1 3/16	15/32	19/32	19/32	506	26.9
7/16	4 23/32	1 13/32	9/16	23/32	21/32	660	27.6
15/32	5 1/2	1 9/16	5/8	25/32	7/8	748	55
1/2	6 5/16	1 23/32	25/32	7/8	1 1/16	880	77
9/16	7 3/32	1 7/8	25/32	7/8	1 3/32	946	77

C

Carabine hooks, with pressed thimble



R-7875

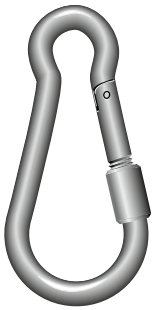


- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

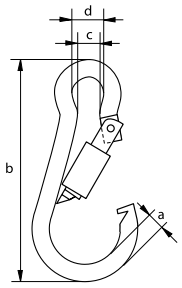
diameter	length	diameter inside thimble	width	width opening	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	e inch	kg	lbs
5/32	1 9/16	3/16	9/16	7/32	70	1.98
3/16	1 31/32	3/16	5/8	9/32	110	3.53
1/4	2 3/8	3/16	23/32	11/32	132	6.17
9/32	2 3/4	9/32	7/8	13/32	198	9.7
5/16	3 5/32	13/32	15/16	1/2	330	14.11
11/32	3 17/32	13/32	1 1/32	13/32	363	20.5
13/32	3 15/16	1/2	1 3/16	19/32	506	27.6
7/16	4 23/32	1/2	1 13/32	21/32	660	41.2
15/32	5 1/2	19/32	1 9/16	7/8	748	55
1/2	6 5/16	21/32	1 23/32	1 1/16	880	77
9/16	7 3/32	21/32	1 7/8	1 3/32	946	110

C

Carabine hooks, with screw nut



R-7876



- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

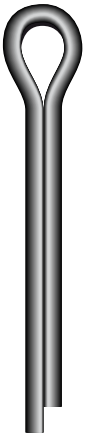
diameter	length	width inside	width inside	minimum breaking load	weight per 100 pcs
a inch	b inch	c inch	d inch	kg	lbs
5/32	1 9/16	3/16	9/32	70	1.76
3/16	1 31/32	9/32	5/16	110	3.75
1/4	2 3/8	9/32	11/32	132	5.73
9/32	2 3/4	11/32	13/32	198	9.7
5/16	3 5/32	7/16	15/32	330	14.11
11/32	3 17/32	7/16	15/32	363	20.5
13/32	3 15/16	15/32	19/32	506	28
7/16	4 23/32	9/16	23/32	660	43
15/32	5 1/2	5/8	25/32	748	55
1/2	6 5/16	25/32	7/8	880	77
9/16	7 3/32	25/32	7/8	946	110

Cotter Pin

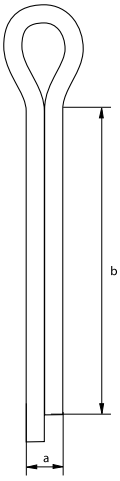
Stainless steel cotter pin

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1

Scan for additional product details



R-7856



diameter	length	weight per 100 pcs
a inch	b inch	lbs
3/32	25/32	0.18
5/32	1 1/4	0.66
3/16	1 13/32	1.32
1/4	1 25/32	2.65
5/16	2 15/32	6.17
5/16	3 5/32	9.7
13/32	2 25/32	11.02
13/32	3 17/32	13.23
13/32	3 15/16	14.55
13/32	4 23/32	9.7
15/32	5 1/2	15.43
15/32	6 5/16	15.43
15/32	7 3/32	15.43
1/2	4 11/32	26.7
5/8	6 5/16	35.3

split pin	for shackle										
	G-4163 G-4143	G-4153 G-4133	P-6036 P-6016 ≤150	P-6038 P-6018	P-6033 P-6013 ≤150	G-5263 G-5243	G-5163 G-5143	P-6031 P-6011 ≤150	G-4263 G-4243	G-4553	R-7827 R-7823
a x b inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/32 x 25/32	0.5										0.4
	0.75										0.6
	1										0.8
	1.5										
5/32 x 1 1/4	2	2				3.3	2				
	3.25	3.25				5	3.25				
3/16 x 1 13/32	4.75	4.75			7	7	4.75		4.75	4.6	1
	6.5	6.5				9.5	6.5				1.5
											2
											3
1/4 x 1 25/32	8.5	8.5			12.5	12.5	8.5		6.5	8.6	3.6
	9.5	9.5			18	15	9.5		8.5		4.5
	12	12				18	12		9.5		
5/16 x 2 15/32	13.5	13.5				21	13.5		12	15.5	
	17	17				30	17		16		
5/16 x 3 5/32					30						
					40						
13/32 x 2 25/32	25	25				40	25		25		
	35	35				55	35		30		
13/32 x 3 17/32	42.5	42.5				85	42.5		55		
	55	55					55				
13/32 x 3 15/16	85	85			55	120	85		75		
					75						
13/32 x 4 23/32					125						
15/32 x 5 1/2					150						
					200						
15/32 x 6 5/16					250						
					300						
1/2 x 4 11/32			120	120		150		120			
			150			175		150			
5/8 x 6 5/16			200					200			
			250					250			
			300					300			

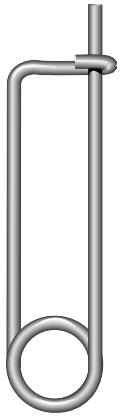
C

Safety Pin

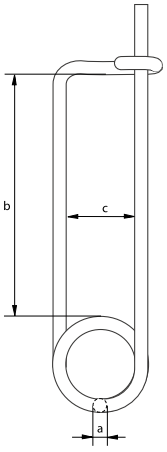
Stainless steel safety pin

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1

Scan for additional product details



R-7850



diameter	length inside	width inside	weight per 100 pcs
a inch	b inch	c inch	lbs
3/32	1 13/16	23/32	1.1
1/8	2 19/32	29/32	3.97
5/32	2 29/32	1 5/32	8.6
3/16	3 11/32	1 1/2	16.31
1/4	3 17/32	1 17/32	27.6

safety pin	for shackle							
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553	P-5367
a x b inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/32 x 1 13/16	4.75	4.75	7	7	4.75	4.75	4.6	
	6.5	6.5		9.5	6.5	6.5		
1/8 x 2 19/32	8.5	8.5	12.5	12.5	8.5	8.5	8.6	
	9.5	9.5	18	15	9.5	9.5		
	12	12		18	12	12		
5/32 x 2 29/32	13.5	13.5	30	21	13.5	16	15.5	
	17	17		30	17	25		
	25	25		40	25			
3/16 x 3 3/4	35	35	40	55	35	30		
	42.5	42.5	55		42.5			
1/4 x 3 17/32	55	55	75	85	55	55		
	85	85	125	120	85	75		

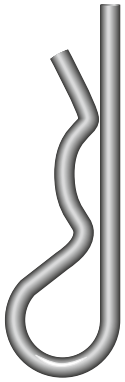
C

Single Spring Pin

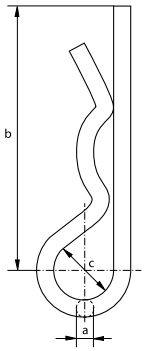
Stainless steel single type spring pin

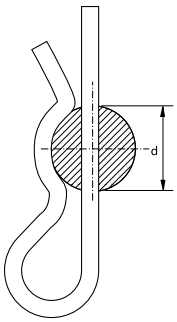
Scan for additional product details

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1



R-7852





diameter	length	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
3/32	1 31/32	13/32	11/32 - 9/16	0.66
1/8	2 3/8	23/32	13/32 - 5/8	1.98
5/32	2 3/8	25/32	5/8 - 25/32	3.53
3/16	3 11/32	15/16	25/32 - 1 3/32	7.28
1/4	4 1/8	1 3/16	1 3/32 - 1 9/16	13.67
9/32	4 1/8	1 3/16	1 3/32 - 1 25/32	18.3
5/16	4 11/32	1 3/32	1 3/16 - 1 25/32	23.1

spring pin	for shackle						
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553
diameter inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/32	2	2		3.3	2		
1/8	3.25	3.25		5	3.25		
5/32	4.75	4.75	7	7	4.75	4.75	4.6
	6.5	6.5		9.5	6.5		
3/16	8.5	8.5	12.5	12.5	8.5	6.5	8.6
	9.5	9.5	18	15	9.5	8.5	
	12	12		18	12	9.5	
1/4	13.5	13.5		21	13.5	12	15.5
	17	17		30	17	16	
9/32	25	25	30	40	25	25	
			40				

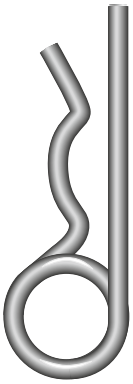
C

Spring Pins

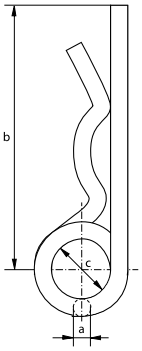
Stainless steel double type spring pin

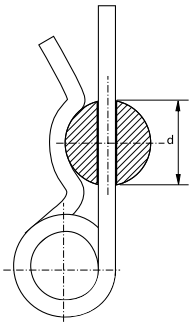
Scan for additional product details

- **Material:** AISI 304 or 316
- **Finish:** polished
- **Certification:** 2.1



R-7854





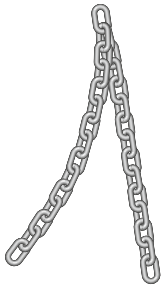
diameter	length	diameter	diameter	weight per 100 pcs
a inch	b inch	c inch	d inch	lbs
3/32	1 31/32	13/32	5/16 - 9/16	0.88
1/8	2 7/16	5/8	9/16 - 25/32	3.09
1/8	3 5/32	19/32	23/32 - 1 3/16	5.51
5/32	3 1/16	29/32	21/32 - 15/16	6.61
5/32	4 11/32	13/16	15/16 - 1 25/32	6.61
5/32	4 23/32	13/16	1 25/32 - 2 7/32	6.61
5/32	5 29/32	1 1/16	1 25/32 - 2 7/32	6.61
3/16	3 5/8	1 1/32	23/32 - 1 3/16	11.68
1/4	4 23/32	1 3/16	15/16 - 1 13/32	21.2
9/32	5 1/8	1 3/16	15/16 - 1 9/16	29.8
5/16	5 1/8	1 3/16	15/16 - 1 25/32	39.2

spring pin	for shackle											
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553	P-5363	P-5365	P-5367	P-5361D/F	P-5362D/F
a x b inch	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t	WLL metric t
3/32 x 1 31/32	2	2		3.3	2							
1/8 x 2 7/16	3.25	3.25		5	3.25				6.5~12		6.5	
1/8 x 3 5/32										12		
										13.5		
5/32 x 3 1/16	4.75	4.75	7	7	4.75	4.75	4.6	6.5	17			
	6.5	6.5		9.5	6.5		8.6		25			
	8.5	8.5		12.5	8.5				35			
5/32 x 4 11/32										17		
										25		
										35		
5/32 x 4 23/32										42.5		12~55
										55		
5/32 x 5 29/32										85		
										120		
										150		
3/16 x 3 5/8	9.5	9.5	12.5	15	9.5	6.5		9.5	42.5~85		9.5	
	12	12	18	18	12	8.5		12	120~250			
						9.5						
1/4 x 4 23/32	13.5	13.5		21	13.5	12	15.5	17			12	
	17	17		30	17	16					17	
											25	
5/16 x 5 1/8	25	25	30	40	25	25		25			35	
			40									

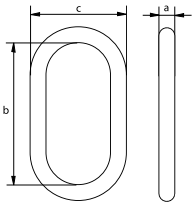
C

Short link chain

Generally to DIN 766 and DIN 5685-3



R-7880



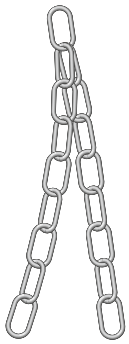
- **Material:** AISI 316
- **Standard:** generally to DIN 766 and DIN 5685-3
- **Certification:** 2.1

diameter	length inside	width outside	weight per meter
a inch	b inch	c inch	lbs
1/8	5/8	7/16	0.37
5/32	5/8	9/16	0.71
3/16	23/32	21/32	1.1
1/4	23/32	25/32	1.65
5/16	15/16	1 1/32	2.98
13/32	1 3/32	1 11/32	4.96

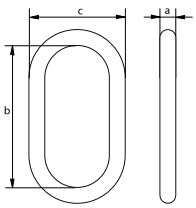
C

Long link chain

Generally to DIN 763 and DIN 5685-1



R-7890



- **Material:** AISI 316
- **Standard:** generally to DIN 763 and DIN 5685-1
- **Certification:** 2.1

diameter	length inside	width outside	weight per meter
a inch	b inch	c inch	lbs
1/8	1 1/32	15/32	0.31
5/32	1 1/4	5/8	0.6
3/16	1 13/32	25/32	0.95
1/4	1 21/32	15/16	1.39
9/32	1 7/8	1 3/32	1.9
5/16	2 1/8	1 1/4	2.43
13/32	2 19/32	1 9/16	3.86

POLLUX
VLISSINGEN

1 Shackles

G-4161 ..... Green Pin® Bow Shackle SC 32
G-4163 ..... Green Pin® Bow Shackle BN 33
G-4143 ..... Green Pin® Bow Shackle FN 34
G-4151 ..... Green Pin® Dee Shackle SC 35
G-4153 ..... Green Pin® Dee Shackle BN 36
G-4133 ..... Green Pin® Dee Shackle FN 37
P-6036 ..... Green Pin® Heavy Duty Bow Shackle BN 38
P-6016 ..... Green Pin® Heavy Duty Bow Shackle FN 39
P-6038 ..... Green Pin® Heavy Duty Dee Shackle BN 40
P-6018 ..... Green Pin® Heavy Duty Dee Shackle FN 41
P-6033 ..... Green Pin® Sling Shackle BN 42
P-6013 ..... Green Pin® Sling Shackle FN 43
P-6043 ..... Green Pin Power Sling® Shackle BN 44
G-5261 ..... Green Pin Super® Bow Shackle SC 45
G-5263 ..... Green Pin Super® Bow Shackle BN 46
G-5243 ..... Green Pin Super® Bow Shackle FN 47
G-5163 ..... Green Pin Polar® Bow Shackle BN 48
G-5143 ..... Green Pin Polar® Bow Shackle FN 49
P-6031 ..... Green Pin Polar® Heavy Duty Bow Shackle BN 50
P-6011 ..... Green Pin Polar® Heavy Duty Bow Shackle FN 51
G-4263 ..... Green Pin BigMouth® Bow Shackle BN 52
G-4243 ..... Green Pin BigMouth® Bow Shackle FN 53
G-4553 ..... Green Pin BigMouth® Dee Shackle BN 54
G-4463 ..... Green Pin BigMouth® Towing Shackle BN 55
G-4163H ..... Green Pin® Catch Shackle BN 56
P-5461 ..... Green Pin® Web Sling Shackle SC 57
G-4161T ..... Green Pin® Theatre Shackle SC 57
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CSOROV ..... Green Pin® ROV Hook E GR8 69
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P-5365 ..... Green Pin® Locking Clamp ROV Shackle 71
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P-5367 ..... Green Pin® Spring Release ROV Shackle 73
P-5368 ..... Green Pin® Compression Tool 73
P-5361D ..... Green Pin® Tapered Pin ROV Shackle D 74
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P-5362D ..... Green Pin® Guided Pin ROV Shackle D 75
P-5362F ..... Green Pin® Guided Pin ROV Shackle F 75
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P-5396F ..... Green Pin® Fishtail handle 76
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3 Lifting sling fittings

3.1 For wire rope

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UMS ..... Green Pin® Master Link GR10 90
UMTS ..... Green Pin® Master Link Assembly GR10 91
UMSW ..... Green Pin® Wider Master Link GR10 92
UMTSW ..... Green Pin® Wider Master Link Assembly GR10 93
P-6810 ..... Green Pin® DNV Master Link 94

P-6820 ..... Green Pin® DNV Master Link Assembly 95
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G-6120 ..... Thimbles – Heavy duty stub-end 98
G-6128 ..... Thimbles – Heavy duty stub-end reinforced with welded fillet plate 99
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G-6131 ..... Thimbles – Generally to DIN 6899 (B) 100
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E-6135 ..... Thimbles – Generally to DIN 3090 102
G-6135 ..... Thimbles – Generally to DIN 3090 102
G-6170 ..... Thimbles – Generally to EN 13411-1 103
G-6142 ..... Thimbles – Generally to US Fed. Spec. FF-T-276b type III 104
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G-6423 ..... Green Pin® Open Wedge Socket BN 124
G-6419 ..... Green Pin® Open Long Wedge Socket CP 125
G-6429 ..... Green Pin® Open Long Wedge Socket BN 126
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CSE ..... Green Pin® Sling Hook SE EN 1677-2 GR8 135
P-6714A ..... Green Pin® Hook E GR8 136
P-6714A ..... Green Pin® Hook E GR8 137
P-6703A ..... Green Pin® Hook SE GR8 137
XLO ..... Green Pin® Self Locking Hook E EN 1677-3 GR8 138
GKO ..... Green Pin® Self Locking Hook E GR8 138
XLE ..... Green Pin® Self Locking Hook SE EN 1677-3 GR8 139
GKE ..... Green Pin® Self Locking Hook SE GR8 139
P-6706A ..... Green Pin® Alloy Sliding Choker Hook 140
P-6714C ..... Eye hook 141
TAG ..... Green Pin® ID Tag 142
TAGRFID ..... Green Pin® RFID Tag 143
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MTS ..... Green Pin® Master Link Assembly EN 1677-4 GR8 151
MP ..... Green Pin® Pear Shaped Link EN 1677-4 GR8 152
CO ..... Green Pin® Omega Link EN 1677-1 GR8 152
MJ ..... Green Pin® Connecting Link EN 1677-1 GR8 153
CHAIN ..... Green Pin® Lifting Chain EN818-2 GR8 153
CRO ..... Green Pin® Grab Hook E EN 1677-1 GR8 154
CRC ..... Green Pin® Grab Hook CL EN 1677-1 GR8 154
GC ..... Green Pin® Shortening Clutch EN 1677-1 GR8 155
GCV ..... Green Pin® Shortening Clutch with Lock EN 1677-1 GR8 155
GDV ..... Green Pin® Shortening Clutch with Double Lock EN 1677-1 GR8 156
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CSO ..... Green Pin® Sling Hook E EN 1677-2 GR8 157
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CSECA ..... Green Pin® Sling Hook SCL EN 1677-2 GR8 158
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GKO ..... Green Pin® Self Locking Hook E GR8 162
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GKE ..... Green Pin® Self Locking Hook SE GR8 164
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RMJ ..... Green Pin® Connecting Link Spare Kit GR8 171
LF ..... Green Pin® Latch GR8 172
RCOS ..... Green Pin® Clevis For Web Sling Connector GR8 Spare Kit 173

3.3 For Grade 100 chain

UMS ..... Green Pin® Master Link GR10 180
UMTS ..... Green Pin® Master Link Assembly GR10 181
UMSW ..... Green Pin® Wider Master Link GR10 182
UMTSW ..... Green Pin® Wider Master Link Assembly GR10 183
UMP ..... Green Pin® Pear Shaped Link GR10 184
UCO ..... Green Pin® Omega Link GR10 184
UMJ ..... Green Pin® Connecting Link GR10 185
UCHAIN ..... Green Pin® Lifting Chain GR10 185
UCRO ..... Green Pin® Grab Hook E GR10 186
UCRC ..... Green Pin® Grab Hook CL GR10 186
UGC ..... Green Pin® Shortening Clutch GR10 187
UGCV ..... Green Pin® Shortening Clutch with Lock GR10 187
UGDV ..... Green Pin® Shortening Clutch with Double Lock GR10 188
UELR ..... Green Pin® Needle Bearing Swivel EE GR10 189
UCSO ..... Green Pin® Sling Hook E GR10 190
UCSC ..... Green Pin® Sling Hook CL GR10 190
UXLO ..... Green Pin® Self Locking Hook E GR10 191
UXLORT ..... Green Pin® Self Locking Hook E RT GR10 191
UXLC ..... Green Pin® Self Locking Hook CL GR10 192
UXLCRT ..... Green Pin® Self Locking Hook CL RT GR10 192
UXLE ..... Green Pin® Self Locking Hook SE GR10 193
UXLERT ..... Green Pin® Self Locking Hook SE RT GR10 193
UCFO ..... Green Pin® Foundry Hook E GR10 194
TAG ..... Green Pin® ID Tag 195
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VRRT ..... Green Pin® Self Locking Hooks RT GR10 Spare Kit 197
UAC ..... Green Pin® Clevis Fittings GR10 Spare Kit 198
URMJ ..... Green Pin® Connecting Link Spare Kit GR10 198
ULF ..... Green Pin® Latch GR10 199

3.4 For Green Pin Tycan® chain

UMS ..... Green Pin® Master Link GR10 208
UMTS ..... Green Pin® Master Link Assembly GR10 209
UMSW ..... Green Pin® Wider Master Link GR10 210
UMTSW ..... Green Pin® Wider Master Link Assembly GR10 211
UMJT ..... Green Pin Tycan® Connecting Link GR10 212
UMJ ..... Green Pin® Connecting Link GR10 213
FCHLIFT ..... Green Pin Tycan® Lifting Chain 214
SLEEVE ..... Green Pin Tycan® Sleeve 214
UCRCT ..... Green Pin Tycan® Grab Hook CL GR10 215
UCSO ..... Green Pin® Sling Hook E GR10 216
UCSCT ..... Green Pin Tycan® Sling Hook CL GR10 216
UXLO ..... Green Pin® Self Locking Hook E GR10 217
UXLORT ..... Green Pin® Self Locking Hook E RT GR10 217

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UXLERT ..... Green Pin® Self Locking Hook SE RT GR10 218
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TAGRFID ..... Green Pin® RFID Tag 220
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VRRT ..... Green Pin® Self Locking Hooks RT GR10 Spare Kit 221
UACT ..... Green Pin Tycan® Clevis Fittings GR10 Spare Kit 222
UALT ..... Green Pin Tycan® Grab Hook CL GR10 Locking Pin 222
URMJ ..... Green Pin® Connecting Link Spare Kit GR10 223
ULF ..... Green Pin® Latch GR10 223

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MTS ..... Green Pin® Master Link Assembly EN 1677-4 GR8 229
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ALDIN ..... Green Pin® Lifting Eye Length as DIN580 GR8 251
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